

# ISRAELI INDUSTRY OIL AND GAS CATALOGUE





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June 27, 2017

Dear Reader:

We are very pleased to share the “Israeli Industry Oil and Gas Catalogue” with you. Our goal in producing it is simple: we want to help you **identify Israeli technologies and innovations that can create value for your business**. In a broad sense, we believe that Israel is perfectly situated to do that. Recently, the IMD Global Competitiveness Yearbook 2014-2015 ranked Israel 1st in innovative capacity, in cyber security, and in entrepreneurship, 2nd in scientific research and in flexibility, and 3rd for its information technology skills and its innovation. In fact, over 300 multinational corporations across a wide range of fields have already chosen to build research and development centers in Israel. We are confident that the oil and gas industry will also be able to benefit from Israeli innovation.

Naturally, our ultimate goal is to **leverage Israel's recent offshore natural gas discoveries to develop an Israeli knowledge-based supplier industry integrated into the oil and gas sector**, both locally and, more importantly, globally. We believe the oil and gas industry is a natural partner for Israeli industry: addressing the major technological challenges facing the global oil and gas industry require expertise in a host of different disciplines, and, for many of these disciplines, Israeli industry is already known to excel on a global scale. It is clear that the Israeli economy will benefit directly from its newfound natural resources; however our focus is on maximizing the indirect benefits that will accompany a thriving knowledge-intensive Israeli industry integrated into the global oil and gas sector. The Israeli economy has never relied on natural resources, which are, by definition, limited. Instead, Israel has grown through knowledge, technology, and innovation, which are, by their very essence, infinite!

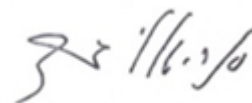
**Ultimately, our goals will only be achieved through strategic partnerships.** We believe this catalogue will make it easier for partnerships to be formed, and we encourage you to connect with companies of interest. To assist you in finding the most relevant companies, we have organized them into six major categories, and then into more specific subcategories.

We truly hope you'll find this catalogue to be a useful and valuable tool, and we look forward to your successful partnerships.

Sincerely,



Aharon Aharon  
CEO  
Israel Innovation Authority



Gadi Ariely  
Director General  
Israel Export Institute



June 27, 2017

Dear Reader:

We are extremely excited to be able to share the second edition of the "Israeli Industry Oil and Gas Catalogue" with you. Through an extensive and broad approach to the Israeli industry at large, we have identified a set of **184 companies with a clear value proposition specifically relevant to the oil and gas industry**. Most companies are technologically oriented; some are more service oriented. Most companies will prove relevant for the global oil and gas industry; some are more focused on the local industry.

After a careful review of all the offerings in the catalogue, we have divided the companies into **six major categories**: Monitoring & Control, IT & Communications, Consulting & Services, Engineering & Construction, Safety & Security, and Water & Environment. We have dedicated time and effort to **organizing the information in the most accessible way** allowing search by category, subcategory, or simply in alphabetical order, all with links to a full-page listing of each company. We hope you will find the different indices useful.

Some of the **innovative solutions** you'll find in this catalogue include: 3D imaging, EO/IR detectors, fiber-based sensing, GIS traceability systems, NDT, 3D laser scanning, seismic imaging, automated systems and robotics, unmanned vehicles, big data & analytics, Industrial IoT, advanced cyber security, video surveillance, new materials and coatings, down-hole drilling materials, construction technologies, produced water treatment, pipe repair solutions, predictive maintenance, ZLD wastewater treatments, and diamond-based drilling tools, and many more.

No work of this scale can be completed without the assistance of many people working behind the scenes. We are deeply indebted to Dr. Liza Kossoy and Mr. Eric Silberman for their major contributions to the creation of this catalogue. We also thank Dr. Lee Recht, Mr. Avner Montemayor, Ms. Kristina Volkova, and Ms. Michal Reisfeld for their dedication and support, as well as all the experts who assisted and counseled us along the way.

We intend to keep updating this catalogue periodically. We welcome any comment, question, or suggestion that you, our reader, may have. Please feel free to contact us any time at [ogcatalogue@innovationisrael.org.il](mailto:ogcatalogue@innovationisrael.org.il). We truly hope you find this catalogue to be a useful tool that will create value for your business activities.

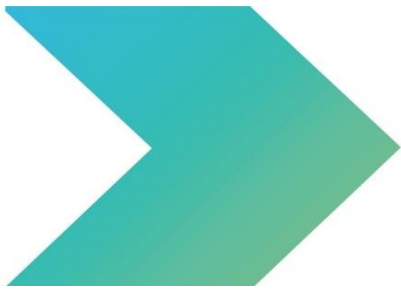
Respectfully,



Gil Shaki  
Senior Director, Energy, Cleantech  
& Infrastructure  
Israel Innovation Authority



Gilad Peled  
Director, Agro-Technology, Water  
& Cleantech  
Israel Export institute



# Company Index (Category/Subcategory)

# Company Index (Category/Subcategory)

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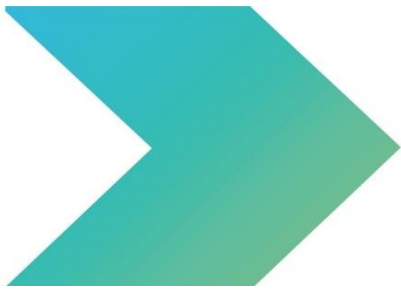
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# Company Value Propositions

# Company Value Propositions







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	<b>AcousticEye</b> AcousticEye's non-invasive tube and pipe inspection technology is a breakthrough in efficiency, cost-savings, and safety.	36
	<b>Aspect AI</b> Aspect AI is the world leader in the design, development, and manufacturing of compact NMR systems, enabling refineries to improve yield.	47
	<b>Atomation</b> Atomation's IoT platform, scalable and easily-deployed, enables the optimization of processes in the oil and gas industry.	50
	<b>Augury Systems</b> Augury's platform monitors machine conditions to diagnose malfunctions and track health trends, providing actionable business intelligence and planning.	51
	<b>Aurora Technologies</b> Low-power sensing and actuating modules for telemetry, fault and event detection, recording, and control at remote locations.	52
	<b>Ayyeka</b> Ayyeka develops end-to-end remote monitoring solutions for infrastructure and asset visibility across the entire oil and gas value chain.	56
	<b>CONTROP Precision Technologies</b> CONTROP has 28 years of experience specializing in the high-end EO/IR arena, with its solutions implemented in the harsh environments of offshore O&G infrastructure.	76
	<b>DMDA</b> DMDA is an engineering consulting and testing company specializing in high-end imaging systems to locate hydrocarbon gas (VOC) leaks.	85
	<b>Elinistech</b> Unique design house for tailor-made Industrial IoT solutions for endpoint devices with unparalleled connectivity range at low-cost and low-energy.	93
	<b>Eltav Wireless Monitoring</b> Industrial wireless valve monitoring with diagnostic capabilities for any type of valve or actuator.	95
	<b>FAST Laser Group</b> FAST Laser Group is active in the field of fiber sensing technology; preventing leaks in pipelines through the monitoring, detection, and location of ground movement.	100
	<b>HAM-LET</b> HAM-LET's core products – instrumentation valves and fittings – play a major role in ensuring customers' applications run safely, trouble-free, and efficiently.	116

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	<b>Hoffmann &amp; Hoffmann</b> Control & Monitoring Devices: DripMaster for vertical turbine pump oil lubrication control and SandSense for sand existence monitoring.	120
	<b>IARD</b> Advanced solutions for gas leak detection.	122
	<b>ImageSat International</b> Operational intelligence services such as: disaster management, oil spill and theft monitoring, and critical infrastructures protection.	126
	<b>Metrycom Communications</b> Metrycom provides a reliable IoT platform, based on ultra-low power wireless units that can be spread over large distances using IPv6 mesh radio technology.	149
	<b>Modcon Systems</b> Modcon has 40 years of experience in process analysis, control, and optimization for the production of high value and customized products.	151
	<b>MTC Industries</b> MTC Industries designs, develops, customizes, and manufactures highly accurate motion control products and sub-systems.	154
	<b>NortecView</b> Automated tracking and traceability GIS platform for underground infrastructure, enabling the transfer of data from the field to the office in real-time.	160
	<b>NOVO DR</b> Our systems offer on-site, immediate, lab quality radiography images at the touch of a button.	161
	<b>Opgal Optronic Industries</b> EyeCGas® – Opgal’s innovative optical gas imaging camera – enables the quick and safe detection and visualization of VOCs and other gases in field conditions.	164
	<b>optiQGain</b> optiQGain makes real-time, online, high-resolution molecular-level analyzers.	165
	<b>Optoacoustics</b> We manufacture robust, highly sensitive EMI/RFI-immune microphones designed for use in extreme, highly explosive, or corrosive environments.	166
	<b>Particle Monitoring Technologies</b> Online, in-process monitoring of oil residues in produced water.	167

# Company Value Propositions

MONITORING & CONTROL - 30

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	<p><b>Sensoleak</b></p> <p>Sensoleak offers the ELDS™ - Early Leakage Detection System, an innovative breakthrough solution designed for O&amp;G industry needs.</p>	<b>188</b>
	<p><b>Totem Plus</b></p> <p>Totem Plus provides Integrated Monitoring, Alarm &amp; Control Systems (IMACS) for vessels' engines and machinery and marine navigation systems.</p>	<b>200</b>
	<p><b>Tri-logical Technologies</b></p> <p>Tri-logical provides a full solution for mobile asset management with the ability to monitor and remotely manage assets in real-time.</p>	<b>201</b>
	<p><b>Triple Plus+</b></p> <p>Triple+ offers an IoT solution integrating wireless, battery operated gas and water valves that automatically shut off whenever risky events such as leaks occur.</p>	<b>202</b>
	<p><b>Vayyar Imaging</b></p> <p>Vayyar develops low-cost 3D imaging sensors based on RF or multi-antenna radars that can see through and model a variety of different materials.</p>	<b>209</b>
	<p><b>Vidisco</b></p> <p>Vidisco offers portable digital radiography systems for NDT inspections of pressure vessels such as pipes, boilers, and valves.</p>	<b>210</b>



# Company Value Propositions

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	<b>Advanced Semiconductor Technology</b> Improving operational efficiency and performance with high performance workload automation infrastructure job scheduler for HPC server farms.	37
	<b>AGM Communication &amp; Control</b> AGM specializes in solutions design and implementation for asset optimization and upgrading/retrofitting of real-time distributed control networking for SCADA/DCS systems.	41
	<b>AIO Systems</b> Turnkey telemetry solutions for remote management of O&G facilities, enabling full control of sites via web, mobile, and advanced BI services.	42
	<b>Amethyst Communication Technologies</b> High-speed communication between downhole/subsea and topside operations working at extreme conditions of over 200°C.	44
	<b>Ayecka Communication Systems</b> Ayecka's satellite communication systems connect, monitor, and control critical remote assets cost-effectively and reliably.	55
	<b>Bacsoft</b> Bacsoft's M2MGrid is an end-to-end remote control and monitoring system, helping you to avoid costly plant and supply failures.	59
	<b>BQR Reliability Engineering</b> The apmOptimizer helps achieve improved asset performance and reliability and optimized maintenance processes, predictive maintenance, lifecycle costs, and inventory management.	68
	<b>Ceragon Networks</b> Unique terrestrial MW connectivity allows offshore connectivity with built-in stabilization for high capacity, low latency communications.	73
	<b>DiagSense</b> DiagSense offers on-line leak detection system and predictive maintenance solution for mechanical equipment such as boosters, pumps, and pipelines.	84
	<b>Fieldbit</b> Fieldbit develops a software platform that utilizes smart glasses and augmented reality technology for resolving on-site technical issues.	101
	<b>Intelicomm</b> A flexible, easy-to-use, cost-effective private network of voice, video, data (2G/3G/4G), and satellite networks.	130
	<b>IO Solutions</b> Integrator and provider of telecommunication, IT, and security equipment and services.	131

# Company Value Propositions

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	<p><b>Mobilicom</b> Mobilicom's Bound-Free Mobile Private Network® delivers communication with no need for infrastructure, designed for harsh offshore conditions.</p>	150
	<p><b>mPrest Systems</b> Monitor and control systems for utilities, connecting the dots: security, safety, cyber, operations, and logistics.</p>	153
	<p><b>NooBaa</b> NooBaa is a large-scale file storage solution that installs as a software-only product and can utilize any hardware located anywhere.</p>	159
	<p><b>Precog</b> By predicting failures, Precog's plug and play innovative solution can increase the reliability of oil and gas equipment dramatically.</p>	170
	<p><b>Presenso</b> Presenso's machine-learning and real-time analysis algorithms reduce machine downtime by predicting future failures.</p>	171
	<p><b>Reali Technologies</b> Through its leading technology RealiteQ, Reali Technologies offers state-of-the-art technologies for real-time remote control and monitoring for oil, gas, water, and energy systems.</p>	179
	<p><b>SparkBeyond</b> SparkBeyond has an automated research engine designed to leverage large amounts of web data, augment your own data, and discover complex patterns.</p>	191
	<p><b>Underwater Technologies Center</b> UTC has developed a unique platform for underwater divers' communication networks.</p>	207
	<p><b>WaveIP</b> WaveIP offers rugged and reliable broadband wireless networks for mission critical applications, well-suited for oil and gas industry applications.</p>	213
	<p><b>WonderLogix</b> Improve your production, minimize downtime and boost your facilities' documentation using the revolutionary tool for designing control systems.</p>	216



# Company Value Propositions

		Page #
 Engineering Management Consulting	<b>Bipol Energy</b> Bipol Energy offers specialized skills, management, and support services for the O&G industry.	65
 The Technology Transfer Company of Hadassah University Hospitals	<b>The Center for Hyperpolarized MRI Molecular Imaging</b> High-resolution NMR measurements of oil and gas samples.	71
 Oil & Gas       	<b>Chemovil</b> Chemovil offers one central hub for a variety of services and products in the oil and gas industry.	75
	<b>Coral Energy Services</b> The leading marine agent and maritime agent in the Israeli O&G industry for the past 30 years.	77
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 Nondestructive Inspections & Welding Supervision	<b>Dayanson Shaked</b> Our company provides third-party quality control, welding supervision/inspection, and non-destructive testing services to the O&G industry.	81
 DHV MED	<b>DHV MED</b> Environmental engineering consulting with experience in industrial regulations for the energy, gas, and chemical industries, with a team of 30 professionals.	83
 ENGINEERING LTD אקולוג הנדסה בע"מ	<b>Ecolog Engineering</b> Ecolog Engineering provides advanced services by a well-trained and qualified team: seismic surveys design, QC acquisition and processing, interpretation, and drilling prospects.	89
 Non Destructive Testing	<b>Gabi Shoef</b> Enhancing the quality of pipes, stations, and other oil and gas installations by quality inspection of welding and pipes through non-destructive testing techniques.	104
	<b>Geomage</b> Geomage has developed a unique imaging software, the g-Platform©, based on its unique and patented MultiFocusing technology.	106
	<b>The Geophysical Institute of Israel</b> Seismic acquisition, processing, and interpretation along with seismic R&D, full potential field exploration, survey design, and consulting.	107
 Geology, Environment, Planning.	<b>Geo-prospect</b> Geo-prospect is a leading consulting firm in the areas of geology, environment, and infrastructure planning.	108

# Company Value Propositions

		Page #
	<b>The Helmsley Charitable Trust Mediterranean Sea Research Center</b> The strategic research and services facility for deep sea vehicles (including AUV, ROV) and technologies in Israel and the SE Mediterranean.	119
	<b>Institute of Failure Analysis</b> Laboratory and R&D services for materials selection, material properties analysis, material testing (metallurgy & polymers), failure analysis, and risk assessment.	128
	<b>K&amp;H Maritime</b> K&H Maritime is a one-stop-shop for offshore supply, specialized vessels, and complementary agency services.	135
	<b>M. Danchor</b> M. Danchor offers diverse offshore fleet, commercial diving services, offshore DNV containers, and marine pollution services up to Tier 2 for the oil and gas industry.	140
	<b>Marpaz Industrial Services</b> Marpaz has long been active in the chemical and petrochemical industry, offering chemical cleaning, hot oil flushing, and maintenance services.	144
	<b>Mediterranean Sea Research Center of Israel</b> A national scientific and technical resources and expertise pool in marine sciences, incorporating the relevant universities and research institutes.	145
	<b>Merchav Engineering</b> We provide innovation and creativity to process engineering design, optimization, debottlenecking, effluents reduction, and safety enhancement.	147
	<b>Methoda Computers</b> Methoda's expertise in IT consulting ensures that a company's investment in IT optimally fits its needs and strategic goals.	148
	<b>Morex 71</b> Morex 71 offers Non-Destructive Testing (NDT) and Certified Welding Inspection (CWI) services.	152
	<b>Scan3D</b> 3D laser scanning surveys, as-made BIM generation, oil tank deformation analysis, digital documentation, and in-context design simulation.	183
	<b>Sea Shore Rosen Engineering Consultants</b> Specialists providing: consulting services in coastal and marine projects, design services for pipe laying and offshore structures, and environmental impacts assessments.	184
	<b>SeArc Ecological Marine Consulting</b> Providing ecological marine consulting, baseline and post-drill surveys, environmental impact assessments (EIA), and permitting services.	185

# Company Value Propositions

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C & S		<p><b>SeismicCity</b> SeismicCity provides seismic imaging services, focusing on the execution of accurate and reliable model building and depth imaging projects.</p>	<b>186</b>
		<p><b>Tonson Labs</b> Tonson Labs is a one-stop, innovative, and experienced leading R&amp;D center specializing in cutting-edge technological solutions applicable to the oil and gas industry.</p>	<b>197</b>

# Company Value Propositions

		Page #
	<b>A.R.I. Flow Control Accessories</b> A.R.I. manufactures and sells air valves, check valves, and hydraulic control valves designed for the O&G industry, fire protection, and water treatment plants.	35
	<b>AfconGas</b> Natural gas solutions provider, systems integrator, and station builder, providing fully-vertical solutions for the natural gas market.	39
	<b>Baccara</b> Solenoid valves and nylon tubing for use in industry, agriculture, and irrigation; high-pressure valves for CNG applications.	58
	<b>Baran EPCO</b> As a leading company in the Israeli natural gas market, Baran EPCO is involved in the design, permitting, and construction of various projects in the field.	61
	<b>Camel Grinding Wheels</b> CGW's abrasive grinding wheels contribute in pipe laying, pipe notching, jointing, portable cutting, grinding, weld removal, finishing, and polishing.	70
	<b>Curapipe System</b> Curapipe's innovative Trenchless Automated Leakage Repair (TALR) repairs leaky holes and cracks in pipes that normally remain undetected by existing detection technologies.	78
	<b>Dor Chemicals</b> Dor Chemicals offers the O&G industry materials and services, including H <sub>2</sub> S scavengers, methanol, tolling processing, recovery services, and storage of hazardous materials.	86
	<b>Dorot Control Valves</b> Developer and supplier of products for control and optimization of fluid systems.	87
	<b>EGMO</b> EGMO is proud to introduce TWISTMax, an advanced pneumatic actuator for ball and butterfly valves in a compact design for the oil, gas, instrumentation, and offshore industries.	90
	<b>Gal Yam Marine Works</b> Marine and subsea-works contractors.	105
	<b>Gevasol Group</b> Gevasol specializes in the integration of valve and fluid control components for liquid handling applications in the O&G industry.	109
	<b>Golan Plastic Products</b> We provide reliable, proven piping systems for the crude oil, gas, mineral, chemical, and metal processing industries.	111

# Company Value Propositions


		Page #
	<b>H.N.A. (Noise &amp; Vibration Control)</b> Providing design and production solutions for noise problems including: canopies for machines, quiet rooms, and silenced ventilation systems.	113
	<b>Habonim Industrial Valves &amp; Actuators</b> Habonim is an industry-leading provider of valves and pneumatic actuators to O&G markets.	114
	<b>Hakohav Valves</b> Hakohav Valves specializes in long lasting centric (fully vulcanized) butterfly valves.	115
 Hanita Coatings	<b>Hanita Coatings</b> Hanita's engineered films and laminates enhance the energy saving, security, and durability of products and environments.	117
	<b>Hop Engineering</b> Hop Engineering manufactures the PTH water improver to prevent damages caused by scale and rust in water systems and in oil wells.	121
	<b>ICL Industrial Products</b> ICL Industrial Products is a leading global provider of Clear Brine Fluids used in the completion process of offshore oil and gas wells.	123
	<b>Israel Natural Gas Lines</b> INGL is responsible for the transportation of the cheapest and most cost-efficient energy source available to the Israeli economy.	133
	<b>Israel Shipyards</b> Israel Shipyards' shore-based facility has been providing logistical, manufacturing, and repair services to the region's offshore and onshore oil and gas industry since 2009.	134
	<b>Krausz Industries</b> Innovative solutions for pipe joining and repairing.	136
	<b>Lesico</b> Leading contractor for natural gas systems, erection of power plants, and maintenance services for gas turbines.	137
	<b>Maagan Marine &amp; Diving Works</b> Largest marine contractor in Israel, with a vast fleet of vessels and personnel, focused on marine construction and environmental protection.	141
	<b>Nanoplate</b> Nanoplate focuses on the development and commercialization of innovative and economical nanotechnology-based coating and plating solutions.	155

# Company Value Propositions

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	<p><b>Ocean Bricks Systems</b></p> <p>Building more stable environmentally-friendly off-shore islands for the O&amp;G industry faster and more cost-effectively than any other method.</p>	162
	<p><b>Protective Coating Technology</b></p> <p>PCT's ceramic coating systems can be applied to manifolds, drills, transport pipes, core barrels, and all other parts exposed to any corrosion or wear.</p>	172
	<p><b>PRS</b></p> <p>High-strength PRS-Neoweb™ geocells provide reliable access roads and rig platforms on any soil and in any climate for energy exploration and development.</p>	174
	<p><b>Roboteam</b></p> <p>Roboteam designs, develops, and manufactures cutting-edge, user-oriented, multi-purpose unmanned platforms for use in difficult environments.</p>	180
	<p><b>Strauss &amp; Co.</b></p> <p>Strauss manufactures high-quality diamond burs and reamers used in the production process of small to large diameter matrix drill bits.</p>	193
	<p><b>StreamBooster</b></p> <p>StreamBooster is a leader in the development and manufacturing of small and micro turbines powering smart network active elements and energy recovery devices.</p>	194
	<p><b>Teldor Cables &amp; Systems</b></p> <p>Teldor Cables &amp; Systems offers a wide range of onshore and offshore cable solutions.</p>	195
	<p><b>TMNG</b></p> <p>TMNG is a leading natural gas EPC company serving as a one-stop shop for natural gas and oil-related projects.</p>	196
	<p><b>Tortech Nano Fibers</b></p> <p>We are manufacturing nonwoven mats and fibers based on ultra-long carbon nanotube (CNT) materials with unique properties (mechanical, thermal, electrical, and biological).</p>	199
	<p><b>Tungsten Powder Technology</b></p> <p>TPT develops materials for shaped charge liners to improve the performance of oil perforators.</p>	204
	<p><b>Tzinorot</b></p> <p>Tzinorot develops and manufactures steel and plastic pipes, internal linings, and external coatings and supplies various services to the O&amp;G industry.</p>	206
	<p><b>WeldObot</b></p> <p>WeldObot offers the O&amp;G industry the WOB – a fully automated orbital welding robotic system, and the Super-MIG® – an innovative hybrid welding system.</p>	214



# Company Value Propositions

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E & C		<b>Y.W. Galil Engineering</b> Galil Group provides engineering, procurement, construction (EPCM), and project-management services in diverse industries, including in the O&G sector.	<b>217</b>

# Company Value Propositions

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	<b>AerialGuard</b> Advance autonomous navigation for unmanned systems.	38
	<b>Agent Video Intelligence</b> Agent Vi's solutions analyze surveillance video to pinpoint security breaches, generate alerts for safety hazards, protect valuable assets, and more.	40
	<b>Airobotics</b> Airobotics offers an automated industrial drone platform that is fully autonomous, industrial grade, on-demand and multi-purpose.	43
	<b>B. Rimon Agencies</b> Explosion-proof lighting systems and security equipment including searchlights and unique deterrence solutions.	57
	<b>BERMAD</b> For total fire protection in the O&G arenas, BERMAD offers a line of cost-effective, reliable, and long-lasting automatic deluge valves.	62
	<b>BlueBird Aero Systems</b> BlueBird provides unmanned aerial real-time video and high resolution mapping for strategic infrastructure protection and emergency situations management.	67
	<b>BriefCam</b> BriefCam's rapid video review enables users to access immediate information and extract value from videos for perimeter security and safety.	69
	<b>Check Point</b> Comprehensive cyber security solutions for IT and OT networks.	74
	<b>CYFORT</b> CYFORT's unique cyber intelligence platform CYSINFF provides entities in the O&G industry real-time alerts on planned attacks, compromised assets, and industry-wide alerts.	79
	<b>D-Fence Electronic Fencing and Security Systems</b> Manufacturers of high-tech perimeter security and intrusion detection systems for the protection of sensitive installations.	82
	<b>DSIT Solutions</b> DSIT's Shield™ family of underwater security systems provides a strong defense for the O&G industry from underwater threats.	88
	<b>Elbit Systems</b> Integrated defense, security, and command and control solutions for O&G operations on land and off-shore, leveraging a wide range of advanced technologies and capabilities.	92

# Company Value Propositions

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	<p><b>Elta Systems</b></p> <p>O&amp;G infrastructure protection including land, coastal, and offshore sites, using radars, optical, cyber, and command and control solutions.</p>	94
	<p><b>Emza Visual Sense</b></p> <p>Emza Visual Sense develops and manufactures field-proven, high-performance visual sensors for outdoor perimeter protection and safety.</p>	97
	<p><b>ESC BAZ</b></p> <p>With more than 1000 installations, ESC BAZ has positioned itself as a leading provider of wired, wireless, and mobile observation systems.</p>	99
	<p><b>Gordon Consulting Engineers</b></p> <p>Your security is assured with our 35 years of experience as an O&amp;G industry security systems consultant and designer.</p>	112
	<p><b>ICS<sup>2</sup></b></p> <p>Big-data analytics solutions for O&amp;G automation &amp; control enabling process visualization &amp; integrity assurance and early warning of operational faults &amp; cyber threats.</p>	124
	<p><b>Indegy</b></p> <p>Indegy's industrial cyber security platform provides visibility and security for industrial control networks, ensuring operational safety and reliability.</p>	127
	<p><b>Magna B.S.P.</b></p> <p>24/7 Security video surveillance by means of electro-optic passive quadrosopic systems for O&amp;G production and storage sites/lines.</p>	142
	<p><b>Nation-E</b></p> <p>Nation-E's First Energy Firewall™ and Energy Cerebrum™ (SIEM) are end-to-end solutions protecting critical energy infrastructure from cyber-attacks.</p>	156
	<p><b>New Rocket</b></p> <p>NewRocket is developing life-saving helicopter safety systems for offshore and remote land-based operations.</p>	157
	<p><b>NextNine</b></p> <p>Automation of plant-wide security policy from a central security and operations center.</p>	158
	<p><b>Perytons</b></p> <p>Detection of tampering attempts of IoT networks for meter reading. Automation via independent monitoring and analysis.</p>	168
	<p><b>Plasan</b></p> <p>Innovative, lightweight solutions for protection and safety from fires and explosions for onshore and offshore platforms; bringing 30 years of proven experience to a range of requirements and customers.</p>	169

# Company Value Propositions

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	<b>ProTrack</b> Advanced video surveillance and computer vision applications in harsh conditions.	173
	<b>RADiFlow</b> RADiFlow provides DPI firewalls for SCADA networks in order to protect critical infrastructure, such as O&G facilities, from cyber threats.	175
	<b>Rafael Advanced Defense Systems</b> Pipeline intrusion detection system and total pipeline and infrastructure security and protection solutions.	176
	<b>Raphael Valves Industries</b> Raphael's state of the art control valves are fitted for use in oil and gas and include a range of deluge, pressure, and level valves for fixed fire systems.	177
	<b>RBtec</b> RBtec is a developer and manufacturer of perimeter intrusion detection systems on land and at sea.	178
	<b>RT LTA Systems</b> Our solution enables perimeter security, intruder detection, situational awareness, and aerial surveillance.	181
	<b>SenseCy Cyber Intelligence</b> Stay one-step ahead of hackers with SenseCy's cyber threat intelligence (CTI) suite for industrial control systems.	187
	<b>Sky Sapience</b> 24/7 autonomous, mobile, aerial monitoring for long pipelines, offshore rigs and platforms, and secured perimeters.	189
	<b>Steadicopter</b> A low-altitude aerial inspection platform.	192
	<b>Top I Vision</b> Airborne surveillance for security enhancement.	198
	<b>TSG IT Advanced Systems</b> TSG's field proven homeland security solutions maximize safety and security while minimizing threats.	203
	<b>Waterfall Security Solutions</b> Waterfall Security Solutions produces hardware-enforced, stronger-than-firewall unidirectional security gateways and related products.	211

# Company Value Propositions

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S&S		<b>YazamTech</b> Vendor of cybersecurity systems (hardware and software) against cyber threats, providing relevant protection for IT departments and infrastructure.	<b>218</b>








# Company Value Propositions

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	<p><b>Amiad Water Systems</b></p> <p>Amiad Water Systems has been supplying the O&amp;G industry with water treatment solutions for over 30 years, applying its solutions throughout the entire value chain.</p>	45
	<p><b>Aqwise</b></p> <p>Aqwise offers aerobic and anaerobic solutions for a diverse range of industrial and municipal water and wastewater needs, based on innovative biofilm-based processes.</p>	46
	<p><b>AST</b></p> <p>AST offers O&amp;G wastewater recycling technologies using advanced oxidation and desalination/evaporation solutions.</p>	48
	<p><b>Atlantium Technologies</b></p> <p>Mobile, robust, small-footprint solution disinfects water and kills corrosive SRB without biocides; meets US environmental regulations.</p>	49
	<p><b>Avgol</b></p> <p>We are a global supplier of nonwoven fabrics that can be used for oil absorption in case of a leakage.</p>	53
	<p><b>Ayala Water &amp; Ecology</b></p> <p>We have developed and implemented the Natural Biological Systems (NBS), a sustainable, efficient, stable, and low-maintenance method for treating hard industrial waste.</p>	54
	<p><b>Ball-Tech Energy</b></p> <p>Our Whirled Sand Media Filter, based on new, no-backwash, patented sand rinsing, saves about 95% of regular media filter wash water.</p>	60
	<p><b>BioCastle Water Technologies</b></p> <p>BioCastle offers an innovative biological wastewater treatment process, based on the SBP (Small Bioreactors Platform) technology.</p>	63
	<p><b>Biological Petroleum Cleaning</b></p> <p>Unique bio-remediation technology for O&amp;G wastewater treatment, with patented closed-loop monitoring and control, eliminates all upsets and saves CAPEX/OPEX.</p>	64
	<p><b>Blue I Water Technologies</b></p> <p>Blue I's water quality analyzers provide high-precision online measurements that excel in challenging environments such as oily water and seawater.</p>	66
	<p><b>Cequesta Water</b></p> <p>Produced water pre-treatment for any flow at any location, hybrid solution, saves money and space, modular and mobile.</p>	72
	<p><b>Elad Technologies</b></p> <p>Elad Technologies specializes in turnkey solutions for industrial wastewater, especially for hard-to-treat streams and ZLD solutions.</p>	91

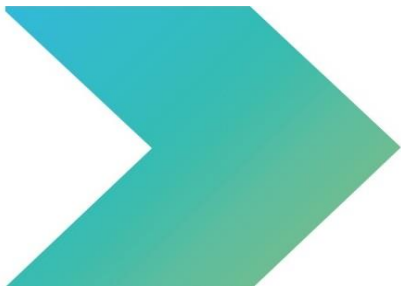
# Company Value Propositions

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	<b>Emefcy</b> Biological treatment to remove organic contamination from low-strength wastewater, such as produced water.	96
	<b>Environmental Systems &amp; Treatment</b> With EST, waste management becomes part of the manufacturing process through an elegant, efficient, and low-cost system.	98
	<b>Filtersafe</b> Advanced automatic screen filtration, proven, durable and designed down to 10 micron, thanks to our superior patented cleaning technologies.	102
	<b>G.A.L. Water Technologies</b> GALMOBILE™ - Mobile portable water treatment system for sustained emergency response and recovery.	103
	<b>Global Environmental Solutions</b> GES designs, manufactures, and supplies systems for the delivery of process water for a wide variety of industries.	110
	<b>HARBO Technologies</b> HARBO has developed the first immediate off-shore oil spill response system to prevent the disastrous consequences of marine oil spills.	118
	<b>IDE Technologies</b> Produced water treatment: end-to-end solutions, both membrane and thermal-based treatments.	125
	<b>Integrated Maritime Solutions</b> IMS's automated submersible marine perimeter is a rapidly deployable offshore barrier that protects against the spread of floating contaminants.	129
	<b>Lesico CleanTech</b> Lesico CleanTech's proprietary technologies are aimed at significantly reducing the volume of desalination brine and produced water.	138
	<b>LipoGreen</b> LipoGreen has developed an environmentally-safe, nanotechnology-based solution to oil spill remediation.	139
	<b>Mapal Green Energy</b> Mapal's Floating Fine Bubble Aeration (FFBA™) technology reduces the operational costs (energy and maintenance) of treating O&G industrial wastewater.	143
	<b>Mekorot Israel National Water Co.</b> Minimizing water usage and pollution by employing hydrogeological surveys for defining critical protected zones.	146

# Company Value Propositions

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	<p><b>ODIS</b></p> <p>Broad range of field-proven customized oil-in-water (OiW) treatment solutions, addressing O&amp;G upstream and downstream industry needs.</p>	<b>163</b>
	<p><b>RWL Water - Israel</b></p> <p>Integrated water and wastewater treatment solutions for O&amp;G operations using cutting-edge technologies.</p>	<b>182</b>
	<p><b>SolEx Water</b></p> <p>SolEx Water enables the reuse of up to 95% of O&amp;G industry wastewater, drastically reducing treatment and management costs.</p>	<b>190</b>
	<p><b>Turbulent Technologies</b></p> <p>Turbulent Technologies reduces OPEX and CAPEX by improving oil/water separation using turbulence to optimize the drop size distribution.</p>	<b>205</b>
	<p><b>Universal Environmental Technology</b></p> <p>UET offers chemical-free water treatment technology to achieve superior results, water conservation, and chemical reduction.</p>	<b>208</b>
	<p><b>WaterMatic</b></p> <p>WaterMatic offers water treatment systems designed to meet strict O&amp;G production standards for both onshore and offshore applications.</p>	<b>212</b>
	<p><b>WellToDo</b></p> <p>Removal of water contaminants without generating any brine or byproducts.</p>	<b>215</b>





# Company Profiles

# Company Profiles (Sample Page)

This page provides the descriptions for each item that you will see in the company profiles. Please note that the bulleted terms in both the “Company Profile” and “Products/Technology/Services” sections were assigned to companies according to specific definitions, which have been provided for you.

[LOGO]

## [COMPANY NAME]

**Contact Person:** [CONTACT NAME]

**Position:** [POSITION]

**Email:** [EMAIL ADDRESS]

**Phone:** [PHONE NUMBER]

**Fax:** [FAX NUMBER]

**Address:** [MAILING ADDRESS]

[WEBSITE]

## VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

The company's unique value proposition to the oil and gas industry, as highlighted by the company.

## COMPANY PROFILE (Company Stage – General: [COMPANY STAGE])

This section provides general information about the company. It is not necessarily limited to the company's activities in the oil and gas sector; rather, it provides a general overview of the company's activity.

Companies were classified into one of the following:

- **SEED:** A startup company in its early days of product development and fund raising.
- **R&D:** A company in the process of discovering and applying knowledge to create new/improved capabilities.
- **INITIAL REVENUE:** A company whose yearly revenues do not exceed \$10 million.
- **REVENUE GROWTH:** A company whose yearly revenues exceed \$10 million.

## PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: [PHASE])

This section provides more detailed information about the company's products, technologies, and/or services which are directly relevant to the oil and gas industry.

Companies were classified into one of the following:

- **DISCOVERY:** This stage starts with opportunity identification and analysis, is followed by solution concept generation, and ends when feasibility of the main element of the solution is shown.
- **DEVELOPMENT:** This stage tests the feasibility of all relevant elements of a concept, reduces critical uncertainties, and ends with proof of the viability of all key elements of the concept at bench-scale.
- **DEMONSTRATION:** This stage brings the product/technology/service from a bench-scale concept to an integrated and scalable level ready for deployment by piloting, prototyping, and conducting field trials and/or beta tests.
- **DEPLOYMENT:** This is where a product/technology/service transitions from the R&D organization responsible for the first applications to a broad application by the delivering organization in relevant assets and projects.

## AREAS OF EXPERTISE

[CATEGORY:] [SUBCATEGORIES.]

Companies were classified into one of the six categories, and into one or more subcategories, as detailed in the tables on pages 6 - 12.



## A.R.I. Flow Control Accessories



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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

A.R.I. manufactures and sells air valves, check valves, and hydraulic control valves designed for the O&G industry, fire protection, and water treatment plants.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

A.R.I. Flow Control Accessories is among the world leaders in the development, manufacturing, and distribution of liquid transmission accessories. Our engineers have developed a wide range of sophisticated valves made from various types of metals and composite materials. The valves are designed for a variety of applications. Our engineers are constantly working to broaden the range of products, improve and enhance existing product lines, and develop new product lines.

A.R.I. is firmly committed to quality control and to environmental protection and is ISO 9001 and ISO14001 certified. A.R.I. continues to grow annually in revenue, in market share, and with an expanding product range.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

A.R.I. products have been successfully installed in the oil and gas industry including air valves and check valves in fracking lines, both in water delivery and disposal, and in fire protection systems.

As a leader in the field of air valves and check valves, A.R.I. has developed some of the most technologically advanced products in this field. Services provided to the oil and gas industry include comprehensive surge analysis of the transmission pipelines for complete pipeline protection and an air valve sizing and placement analysis for obtaining the highest level of flow efficiency and energy savings.

### AREAS OF EXPERTISE

**Engineering & Construction:** Valves and Actuators.



## AcousticEye

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<http://www.acousticeye.com>

### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

AcousticEye's non-invasive tube and pipe inspection technology is a breakthrough in efficiency, cost-savings, and safety.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

AcousticEye is a pioneer in non-invasive tube and pipe inspection for non-destructive testing (NDT) applications. Based on patented dual mode pulse reflectometry technology (acoustic and ultrasonic operating in parallel), the DUET™ system performs accurate testing in a fraction of typical inspection cycle times and with 50% less manpower. Initially targeting the heat exchanger and boiler market with billions of tubes and pipes being inspected and maintained annually, the company's innovative solutions are utilized by inspection service providers and end users worldwide.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

AcousticEye's DUET™ system introduces an innovative, non-traversing technology for inner and outer diameter tube and pipe inspection that aims to deliver ultra-fast and accurate results to meet today's challenging turnaround requirements.

Featuring patented dual mode pulse reflectometry (acoustic and ultrasonic operating in parallel), the system has been designed to achieve full coverage of all defect and tube types, regardless of shape or material. DUET™ is an advanced, yet easy-to-use tool with automated analysis and report generation that requires much less operator expertise and minimal training for a more efficient inspection cycle.

### AREAS OF EXPERTISE

**Monitoring & Control:** NDT Technology.



## Advanced Semiconductor Technology



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<http://www.ast.co.il>

### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Improving operational efficiency and performance with high performance workload automation infrastructure job scheduler for HPC server farms.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

Runtime Design Automation is the leading developer of distributed processing solutions for data center, cluster and cloud deployments. Runtime's innovative product suite improves system utilization and enables more work to be completed in less time at lower cost. Runtime solutions complement existing infrastructure so customers can quickly benefit from productivity gains without the need for application modifications, lengthy deployment cycles or long learning curves.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DISCOVERY)

NetworkComputer is a high-performance enterprise grade job scheduler designed for distributed High-Performance-Computing (HPC) environments. NetworkComputer provides a cost-effective highly adaptable solution capable of managing compute infrastructures from small dedicated server farms to complex distributed HPC environments. NetworkComputer's small memory footprint, sub-second dispatch latency and scalable architecture makes it an ideal solution capable of handling instantaneous workloads in excess of 2 million jobs and capable of scaling to a throughput exceeding billions of jobs per day. A full-featured scheduler, NetworkComputer is equipped with a comprehensive set of policy management features including FairShare, Preemption, and Reservations, allowing you to customize it to your organizational needs and maximize your compute infrastructure resource utilization and throughput.

### AREAS OF EXPERTISE

IT & Communications: IT/Software



**AerialGuard**



## AerialGuard

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<http://www.aerialguard.systems>

### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Advance autonomous navigation for unmanned systems.

### COMPANY PROFILE (Company Stage – General: SEED)

We focus on intelligent autonomous behavior of unmanned systems with an emphasis on safety, reliability, and robustness of operation. Our Sense & Avoid technology enables the use of unmanned platforms (air, ground, and sea) in real-world missions requiring close interaction between the system and the environment. Enabling inspection of infrastructure without human intervention as well as security related mission.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

We develop the next generation of autonomous navigation system. Our core IP is found in our algorithms which enable unmanned platforms to move in a complex environment, interacting with objects and obstacles. Our capabilities allow for safe and reliable operations in missions where unmanned systems are required to operate near obstacles, or traverse while interacting with the environment. For example, examining a pipeline beyond line of sight, inspecting off shore platforms from multiple angles and more.

### AREAS OF EXPERTISE

**Safety & Security:** Unmanned Aerial Systems.



## AfconGas

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Natural gas solutions provider, systems integrator, and station builder, providing fully-vertical solutions for the natural gas market.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Afcon Gas is a part of Afcon Holdings Group (formerly AFCON Industries), one of Israel's largest and leading industrial enterprises. The group engages in the design, manufacture, integration, and sale of a wide range of electro-mechanical and control systems, natural gas, green energy, and telecommunication solutions, and has gained market leadership based on quality, performance, and innovation. The group offers enterprising, competent, and skilled technical professionals dedicated to excellence and quality management.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

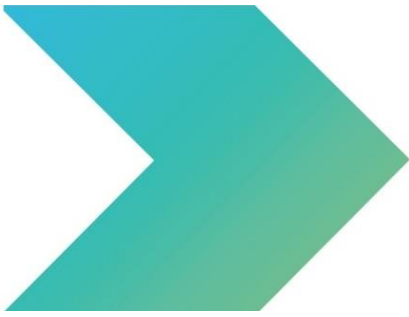
Afcon Gas, is a natural gas solutions provider, systems integrator, and station builder, providing fully-vertical solutions for the natural gas market, including equipment, design, manufacturing, assembly, erection, and service and maintenance.

Afcon Gas is experienced with local regulations, standards, and client demands. It is working with all types of medium-sized to large clients (both privately-held and publicly-traded companies), and offering a wide range solutions, from very low-pressure (factory retrofits) through medium-high pressure reduction and metering stations for the Israeli natural gas lines (INGL), and up to very-high-pressure systems such as CNG and NGV stations (including decompressing stations).

As an EPC company, Afcon is well aware that the oil and gas industry is a "solution-driven market," and Afcon prides itself on not just selling units, but supplying full-service packages.

### AREAS OF EXPERTISE

**Engineering & Construction:** EPC.



## Agent Video Intelligence



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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Agent Vi's solutions analyze surveillance video to pinpoint security breaches, generate alerts for safety hazards, protect valuable assets, and more.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Agent Vi's video analytics products serve critical infrastructure sites by enhancing security and safety to prevent attacks and accidents. Through Agent Vi's advanced, automated video analysis tools that provide for the immediate detection and extraction of events and valuable data from surveillance footage, users eliminate the manual, time-consuming tasks traditionally employed to monitor live video feeds or sift through recorded video. The solutions improve overall security, safety, and business operations and are ideal for perimeter (intrusion) protection and securing sensitive zones.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Agent Vi's solutions extend from real-time video analysis and alerts to video search and business intelligence applications and are fully integrated with leading cameras, encoders, and video management systems. Based on Agent Vi's patented software architecture – which distributes the video analysis between the camera and server – Agent Vi's solutions support up to 200 cameras running a full suite of video analytics functionalities per server, while offering superior accuracy and detection performance.

Specific applications for the oil and gas sector include:

- Real-time detection of perimeter intrusion, secured zone breaches, unauthorized entry, unattended objects, motion counter to traffic flow, loitering in sensitive areas, camera blocking or tampering, blockages to fire and other emergency exits, removal of assets.
- Rapid and automated search through recorded video to provide situational awareness as an incident unfolds and to pinpoint events and provide information during the post-event phase.

### AREAS OF EXPERTISE

**Safety & Security:** Video Surveillance Technologies and Solutions.





## AGM Communication & Control



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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

AGM specializes in solutions design and implementation for asset optimization and upgrading/retrofitting of real-time distributed control networking for SCADA/DCS systems.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

AGM's solutions are serving:

- Oil and water pumping stations' automation, from a single oil/gas/water drilling well to a vast drilling farm.
- Pipeline monitoring and control, including low-cost Cathodic Protection monitoring.
- Oil sands industry automation upgrades.
- Asset optimization and integrity management for water treatment systems.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

AGM's products for the oil and gas industry include:

- R-Win – Original product line designed for asset optimization projects: a compact, smart, wireless data communication manager over RF and cellular media, linking remote sites to the control center and the internet, implementing bridge/relay/S&F capabilities, and featuring safer wireless MESH networking. Each unit can serve as an ad-hoc control center for local processes management.
- R-Win I/O – Economical solution for small oil pump stations' automation upgrades and smart networking.

### AREAS OF EXPERTISE

**IT & Communications:** Communication Technologies and Systems.



## AIO Systems



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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Turnkey telemetry solutions for remote management of O&G facilities, enabling full control of sites via web, mobile, and advanced BI services.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

AIO Systems develops, produces, and markets advanced solutions for the management of remote network infrastructures. AIO's management platform is incorporated into site hardware and telemetry systems enabling companies to control, secure, predict, track, and remediate their remote site operations efficiently. By integrating multiple site data and analyzing it with advance Business Intelligence (BI) tools, we provide decision-makers with a global perspective on their infrastructure.

AIO's solutions enable oil and gas companies to reduce OPEX, guarantee a fast ROI, optimize efficiency, and increase profitability. With over 52,000 installations worldwide, our international team of professionals and experts work with our customers 24/7 to ensure their successful network operations.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

AIO Systems' remote management solution for oil and gas manages all elements on site:

- Monitoring and control of critical parameters: pump status, temperature, power and alternative power supply, tank level, oil quality, leak-detection, compressor pressure, and flow metering on pumps and pipes.
- Monitoring and control of pipe cathodic protection systems: rectifiers, test points, corrosion probes.
- Retrofitting of legacy analog monitoring systems, to guarantee the flow of information.
- 3<sup>rd</sup> Party systems integration such as radar, smart fence, and sonic detectors.
- Environmental control and monitoring: air quality, pollutants discharge.

AIO's added value to the oil and gas industry:

- Unification of multiple separate systems on one platform.
- Proactive maintenance and damage prevention.
- Reduction of energy consumption by switching between alternative energy sources.
- Continuity of site production.
- Real-time data, alerting, ticketing, and advanced BI.

### AREAS OF EXPERTISE

**IT & Communications:** IT/Software.




## Airobotics

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Airobotics offers an automated industrial drone platform that is fully autonomous, industrial grade, on-demand and multi-purpose.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

In order to maintain safe and efficient operations at large industrial facilities, operators must constantly be aware of on-site activity, equipment and ongoing processes.

The Airobotics end-to-end drone solution goes far beyond standard drone options. The platform was designed and built by a multi-disciplinary team to answer the needs of industries such as energy, mining and oil & gas by providing a safe, cost-effective solution available on-site and on-demand.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEVELOPMENT)

Oil and gas facilities require frequent inspection and maintenance to ensure safety and avoid failure. Currently, the main methods of inspecting hard-to-reach areas involve shutting down operations, building scaffolding or setting rope lines, and sending an inspector into hazardous areas with a camera.

Airobotics' automated platform provides high quality aerial data for all inspection and maintenance requirements in a safer, more efficient manner, without causing operational downtime. This innovative, consistently available aerial perspective of operations supports the following key aspects:

- Emergency Response:
  - Immediate aerial information of leaks and spills;
  - Safety procedures and evacuation monitoring.
- Infrastructure Inspection:
  - Routine system inspections to ensure consistent operational integrity;
  - Access to hard-to-reach areas.
- Security and Surveillance:
  - Situational awareness beyond the rig;
  - Intrusion alerts.

### AREAS OF EXPERTISE

**Safety & Security:** Unmanned Aerial Systems.



### Amethyst Communication Technologies

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#### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

High-speed communication between downhole/subsea and topside operations working at extreme conditions of over 200°C.

#### COMPANY PROFILE (Company Stage – General: R&D)

Vital to the interconnectivity essential to any successful business today, communication modems are adaptable for use in virtually any environment to answer the different requirements of any industry. Each application fulfills its specific requirements as dictated by the device working environment. Amethyst helps its customers meet these requirements.

Communication modem requirements can entail the delivery of either high-speed data or visual information for a wide range of industries and applications. Each industry faces unique challenges that require specific solutions that off-the-shelf modems cannot provide.

#### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

For the past five years, Amethyst has developed customized modem solutions for its customers that support high-speed communication between down-hole and surface operations that enable more advanced sensors to be installed in the down-hole area. Amethyst's unique, asymmetric bit-rate requirements of a few tens of kilobits downstream and megabits upstream is designed to work in extreme environmental conditions of over 200°C.

#### AREAS OF EXPERTISE

**IT & Communications:** Communication Technologies and Systems.



## Amiad Water Systems

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Amiad Water Systems has been supplying the O&G industry with water treatment solutions for over 30 years, applying its solutions throughout the entire value chain.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

Amiad offers a comprehensive array of fully automated, self-cleaning water filtration and treatment solutions. With over three decades of industry experience, Amiad designs and develops customized stand-alone and turnkey solutions offering market-best filtration performance for all water types.

Solutions Highlights:

- High reliability: Over 30 years of proven success, performing at the highest level over time.
- Robust construction: Built with durable, high-quality materials and coatings, handling the most extreme conditions.
- Small footprint: Lightweight, modular, and compact, requiring no consumables or storage space.
- Cost-effective performance: Achieving industry-best removal rates with minimum labor inputs and maximum water/energy efficiency; providing a great value for money.
- User-friendly operation: Based on simple yet intelligent designs.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Amiad is targeting the oil and gas market as one of its leading segments for the near future due to recent developments in the oil and gas industry that encourage new extracting technologies. The developments in the unconventional oil and gas industry, combined with the needs of the conventional industry, require reliable and innovative solutions for water treatment technologies in which Amiad Water Systems plays a major role.

Typical applications in the oil and gas industry include:

- Injection Water Filtration.
- Produced Water Filtration.
- Intake Water Systems.
- Cooling Water.

### AREAS OF EXPERTISE

**Water & Environment:** Water Filtration Systems.



## Aqwise



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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Aqwise offers aerobic and anaerobic solutions for a diverse range of industrial and municipal water and wastewater needs, based on innovative biofilm-based processes.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

Aqwise offers both aerobic and anaerobic solutions for a diverse range of industrial and municipal needs and delivers integrated, tailor-made solutions for both new and existing plants – from small scale compact units to large scale facilities.

The company's solutions are based on a wide range of innovative biofilm-based processes.

Aqwise's technology provides operational and cost benefits for various client needs, including:

- Municipal authorities and water utilities can cope with evolving regulation, aging infrastructure, and growing population.
- Industrial plants can meet the stringent regulatory requirements for wastewater discharge to the environment or to municipal collection systems, address typical challenges such as variable inflow, seasonal peaks, and high organic loads, and facilitate additional in-plant reuse of treated water as well as efficient energy recovery.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

Aqwise offers an integrated solution for refineries and oil processing facilities, combining intensive solids separation followed by aerobic treatment, addressing the unique characteristics of the oil and gas industry, such as: high concentrations of fats, oil, and grease, as well as soluble organic material such as phenols and aromatic compounds. This enables scalable facilities anticipating future growth needs.

### AREAS OF EXPERTISE

**Water & Environment:** Biological Wastewater Treatment.



## Aspect AI

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Aspect AI is the world leader in the design, development, and manufacturing of compact NMR systems, enabling refineries to improve yield.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Aspect AI is the world leader in the design, development and manufacturing of compact NMR systems, enabling refineries to improve their yield. Aspect AI has 25 years of in-line process NMR experience in petroleum refining. AI-60 process analyzers offer multi-property analyses with one easy to use system; reduce time-consuming ASTM based laboratory tests; allow for the verification of crude oil integrity throughout shipping and receiving; allows control of crude feed to the CDU and correlation with distillate yields. The technology is applicable to all crudes, whether whole, opaque, or blended.

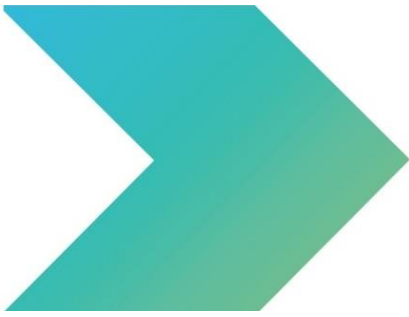
### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Aspect AI provides the following advanced solutions for the oil and gas industry.

- The Aspect AI-60 Process Analyzer, together with sophisticated proprietary software, enables real-time, continuous flow-through stream analysis, which in turn enables process units to operate at optimal levels and improve yield. The AI-60's rapid analysis capabilities are proven in: rapid crude assay; crude blending optimization; CDU and FCC optimization; lube production optimization. It also analyzes dense/opaque materials.
- The Aspect AI-60 Lab Analyzer offers multi-property analyses, reducing time-consuming ASTM-based laboratory tests, and verifying crude oil integrity throughout shipping and receiving. The Lab Analyzer's capabilities are proven in: rapid crude assay; distillate analysis (naphtha; kerosene; diesel); FCC inlet (HVGO); lube oil analysis.
- The Aspect AI FlowScan™ system is a platform for real-time, non-invasive rheological measurements of all liquids for in-line or on-line industrial applications.

### AREAS OF EXPERTISE

**Monitoring & Control:** Analyzers.



## AST

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

AST offers O&G wastewater recycling technologies using advanced oxidation and desalination/evaporation solutions.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

AST is an Israeli company specializing in smart water-treatment solutions. We focus on the development, design, and manufacturing of a large variety of water and wastewater treatment filtration solutions and membrane systems.

AST treats oil and gas wastewater using AOP and ROTEC technologies:

- Advanced Oxidation Processes (AOP)—a set of chemical treatment procedures enhanced by ultrasound and UV activation, designed to remove organic and inorganic materials from wastewater.
- ROTEC System—"Flow Reversal" technology as a means to increase recovery in RO systems.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

The AOP procedure is particularly useful for cleaning biologically toxic or non-degradable materials such as petroleum constituents. The AOP system is usually used for removing contaminants from wastewater generated by heavy industries such as: petrochemicals and plastics, chemicals, food processing, pharmaceuticals, metal and metal-plating, and textiles and dyeing. The AOP system is also useful for removing contaminants from RO and NF brine streams.

The basic concept of the ROTEC system is smart "flow reversal." To avoid scaling, the system alternates the flow direction of the desalination process before reaching the critical point at which scaling forms. Flow reversal at the induction time halts the crystallization of minerals, lowers salinity levels in feed water, and "cleans" membranes and pipes. While simple in concept, this operation is complex to implement and requires a gradual and precise process that can be hazardous to the desalination plant equipment if not properly performed.

### AREAS OF EXPERTISE

**Water & Environment:** Water Filtration Systems.





## Atlantium Technologies

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

**Mobile, robust, small-footprint solution disinfects water and kills corrosive SRB without biocides; meets US environmental regulations.**

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

Atlantium's innovative Hydro-Optic™ UV provides field-proven water disinfection and dechlorination that streamlines water treatment and eliminates the costs and logistics of chemicals. Atlantium systems meet the strictest environmental regulations. The systems are robust and suitable for field conditions. A small footprint ensures a highly mobile solution, and standard pipe connections easily integrate into existing water pipelines. The integrated software enables real-time monitoring and control, on-site or remotely.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Atlantium UV provides the oil industry with two highly effective, non-chemical water treatment solutions in one system: disinfection kills water bacteria like SRB that compromise oil quality and corrode pipes; and dechlorination protects RO membranes from bio-fouling and dramatically reduces the need for steam treatments. Atlantium UV meets the strictest environmental regulations and has accredited third-party validation for US EPA water safety criteria. Atlantium has a solution for all types of oil and gas production, including traditional production, hydraulic fracturing, and oil sands SAGD operations.

### AREAS OF EXPERTISE

**Water & Environment:** UV Disinfection.



# A+OMATION

## Atomation

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Atomation's IoT platform, scalable and easily-deployed, enables the optimization of processes in the oil and gas industry.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Atomation has developed an Internet of Things platform for the seamless connection of any sensor to the cloud, enabling you to interact, draw conclusions, and make real time decisions based on big data analytics. Atomation's Internet of Things platform is comprised of three main elements:

- A hardware solution that enables fast integration with various sensors and actuators. Atomation's wireless electronic circuits are easily deployed, allow long battery lives, and are cost effective.
- An Android SDK (Software Development Kit) that transfers data from the sensors to the cloud database. The SDK enables effortless app development for monitoring, real time alerts, and control.
- A cloud database that aggregates information, utilizes big data to discover insights, and provides an API.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Atomation's IoT platform is scalable, robust, and agnostic, which means that it can easily integrate with any sensor allowing the flexibility needed in the dynamic oil and gas industry.

Applying Atomation's platform will enable oil and gas companies to monitor processes across the supply chain, ensure workers' safety, reduce costs with a more efficient management system, and perhaps, most importantly, scale resources.

### AREAS OF EXPERTISE

**Monitoring & Control:** Industrial Internet of Things.



## Augury Systems



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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Augury's platform monitors machine conditions to diagnose malfunctions and track health trends, providing actionable business intelligence and planning.

### COMPANY PROFILE (Company Stage – General: INTIAL REVENUE)

Augury's diagnostic technology is built around a simple principle. Every mechanical system can be characterized by the sound that it makes. Our platform enables you to drill into each asset's condition and track its health trend in order to make informed decisions. And, at a higher level, we can track failure statistics and generate business intelligence. Instead of showing the raw data, like existing solutions do, we give actionable insights to the technicians in the field as well as the managers in the office.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

We have worked with several companies in the oil and gas or related sectors. Our technology has been used in many facilities to monitor the condition of HVAC machinery. We've also worked with several partners who have used our technology on heavy machinery used in for drilling, refining, transportation, and storage in the oil and gas industry.

### AREAS OF EXPERTISE

**Monitoring & Control:** Industrial Internet of Things.



# Aurora Technologies Ltd.

## Aurora Technologies

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Low-power sensing and actuating modules for telemetry, fault and event detection, recording, and control at remote locations.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Aurora Technologies is a software and hardware developer and systems integrator. The company has been privately owned and operated since 1996. Aurora offers comprehensive solutions for project development from initial analysis and specification to final product prototyping and production documentation.

Aurora specializes in the design and development of low-power, communication-oriented, embedded microcontroller units and systems. These systems implement IOT and solutions for remotely located, self-powered, intrinsically-safe telemetry and fault and event detection, recording, and control at remote locations.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEVELOPMENT)

Aurora's embedded systems are suitable for the oil and gas sector's needs, including in pipelines, manned and unmanned off-shore installations, and oil and gas production, processing, and transport facilities.

Aurora's embedded products employ low-power sensing and communication technologies. These are especially well-suited for industrial, remote, power-limited, and/or hazardous environments. Relevant applications include: telemetry, fault and event detection, intrinsic safety, analysis, recording, and transmission.

Aurora develops modules in accordance with specific requirements. Aurora's modules can monitor environmental conditions (temperature, pressure, flow, motion, etc.) in enclosed, inaccessible, or remote locations and communicate these conditions to a central data collection facility via RF, Bluetooth, WiFi, cellular, etc.

Aurora's modules can operate independently for extended time periods and report normal and abnormal occurrences and conditions in industrial and field environments.

### AREAS OF EXPERTISE

**Monitoring & Control:** Instrumentation and Devices.



## Avgol

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

We are a global supplier of nonwoven fabrics that can be used for oil absorption in case of a leakage.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

Since 1988, Avgol has been steadily expanding its production and innovation capabilities, while gaining a standing as one of the top two suppliers of ultra-lightweight and top quality nonwoven fabrics. Avgol's unwavering commitment to its customers and uncompromising reliability in supplying high-quality products has created long-term and loyal relationship with some of the industry's leading manufacturers. The company's commitment to growth and development is based on valued long-term partnerships with customers, innovative expertise in producing very lightweight spun-melt materials, and its ability to make decisions quickly and follow through accordingly.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DISCOVERY)

Nonwoven fabrics based on polypropylene and PP/PE bi-component filaments are used worldwide to handle oil spills. We believe Avgol's products and technologies could be applied to oil spill containment and clean up.

### AREAS OF EXPERTISE

**Water & Environment:** Oil Spill Control and Clean Up.



to Category/Subcategory

רשות החדשנות  
Israel Innovation  
Authority



## Ayala Water & Ecology

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

We have developed and implemented the Natural Biological Systems (NBS), a sustainable, efficient, stable, and low-maintenance method for treating hard industrial waste.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Ayala Water & Ecology is a company of sustainability experts. Ayala has developed the NBS (Natural Biological Systems) concept, which makes use of a range of natural elements, such as plants with proven remediation abilities (phytoremediation), sediments with different physical and chemical properties, and various hydrology regimes to create a system that treats hard industrial waste. Each system is custom designed to meet the unique needs and ecological conditions of a particular case using local, natural and human resources and is designed to withstand extreme fluctuations and to last for a long period of time. We have applied the NBS in a wide variety of applications including: agricultural sewage, industrial sewage, landfill leachate, and more. Ayala owns its own farm where the company grows its own aquatic plants in custom-designed nurseries for use in company projects and for sale globally. Ayala Water & Ecology is constantly engaging in R&D activities with commercial and academic partners worldwide.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Ayala's Natural Biological Systems are capable of coping with a large variety of pollutants including heavy metals, salts, boron, hydrocarbons, pathogenic microorganisms, and of course BOD, COD, TSS, and other standard parameters for wastewater quality. Ayala Water has applied the NBS in a range of projects in the oil and gas industry including in gas stations and in crude oil storage facilities.

### AREAS OF EXPERTISE

**Water & Environment:** Biological Wastewater Treatment, Hazardous Waste Treatment.



## Ayecka Communication Systems

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Ayecka's satellite communication systems connect, monitor, and control critical remote assets cost-effectively and reliably.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Ayecka's satellite communication systems provide ultra-low-cost terminals and a very low-cost service price due to the use of advanced KA satellites. They provide a reliable solution for supervisory control and data acquisition (SCADA) to more efficiently operate and protect energy companies' infrastructure.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

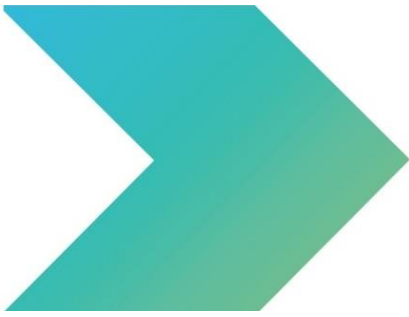
The drive towards smarter oil fields and pipelines results in the need for more (and more extended) communications networks along pipelines and at remote well sites and drilling locations. Ayecka's satellite solutions enable oil and gas exploration, production, and pipeline companies to cost-effectively and reliably connect their remote assets in support of business critical SCADA applications such as:

- Monitoring pressure, level, temperatures, etc.
- Fiscal metering or custody transfer systems.
- Controlling pumps, valves, and compressors.
- Emergency shut-down systems.
- Corrosion monitoring.
- Leak detection.
- Pipeline security and surveillance.

Due to the critical nature of many of these remote well and pipeline sites, having redundant communications solutions in place is a must in order to maintain continued operations in the event of a communication failure.

### AREAS OF EXPERTISE

**IT & Communications:** Communication Technologies and Systems.



## Ayyeka

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Ayyeka develops end-to-end remote monitoring solutions for infrastructure and asset visibility across the entire oil and gas value chain.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Ayyeka provides end-to-end remote monitoring solutions that streamline and secure the process of bringing field data to decision makers and enable improved infrastructure and environmental management. The company's modular solutions consist of best-of-breed sensors that are integrated with Ayyeka's IIoT gateway device to seamlessly collect data from dispersed infrastructure, assets, and the environment and integrate with industrial control systems (ICS) as well as data analytics and business intelligence software offerings.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

As of mid-2016, Ayyeka has deployed pilot projects in the upstream oil and gas sector pertaining to petroleum reservoir characterization and wastewater quality monitoring at saltwater disposal wells. The company is focusing its efforts on developing solutions for additional remote monitoring applications, including pipeline and tank level monitoring, end-to-end water management, and environmental monitoring.

### AREAS OF EXPERTISE

**Monitoring & Control:** Industrial Internet of Things, Instrumentation and Devices.





*B. Rimon Agencies Ltd*

## B. Rimon Agencies

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Explosion-proof lighting systems and security equipment including searchlights and unique deterrence solutions.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

B. Rimon Agencies develops and manufactures:

- OWL miniature xenon searchlight – autonomous, software controlled light.
- Perimeter Control – mobile IR sensor kits and motion detectors.
- Specialty Vehicles – integration of command vehicles, communication, and rescue trailers.
- Energy Systems – ruggedized generating sets and DC generators.

B. Rimon Agencies has been an official supplier to the IDF, HLS agencies, and police forces since 1988. It is also a subcontractor for major security exporters - Rafael, IAI, and Elbit.

B. Rimon Agencies carries an ISO 9001-2008 Certificate of Approval.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Our set of products meets safety and security needs in the oil and gas industry:

- Security and Safety Lighting Kits:
  - OWL Miniature Xenon Searchlight – autonomous, software controlled light;
  - LILITH Long-Range Xenon Searchlight – software controlled light;
  - Explosion-proof Rechargeable Spotlights.
- Perimeter Control:
  - IR Motion Detectors – independent, mobile, long range;
  - Deterrence Equipment – versatile.
- Specialty Vehicles / Emergency Equipment:
  - Integration of command vehicles, surveillance cars, etc;
  - Communication and rescue trailers;
  - Lighting and energy trailers.

### AREAS OF EXPERTISE

**Safety & Security:**

Emergency and Rescue Equipment, On Land/at Sea Perimeter Protection.



## Baccara

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Solenoid valves and nylon tubing for use in industry, agriculture, and irrigation; high-pressure valves for CNG applications.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

Baccara Geva Ltd. - Automation Control was established in 1964.

Baccara is a market leader in the manufacture and specialization of products for automation such as: solenoid valves, air valves, and air cylinders. Baccara's products can be designed to suit the needs of most adverse environments such as marine conditions, chemicals, and heavy industries. Our strength is in our flexibility and ability to provide solutions for the automation market. We have successfully gained ISO 9001:2000 certification for all our products.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Due to its multiple advantages over the traditional petrol industry, the natural gas industry is growing rapidly and with it the demand for high pressure valves is increasing.

Baccara's solenoid valve is specially designed to meet the requirements of heavy duty CNG systems:

- High pressure.
- High flow.
- Quick response time.
- Long life.

The valve is suitable for stationary CNG systems and for CNG powered vehicles as it is designed and tested to meet ANSI NGV3.1-2012 standard for fuel system components.

### AREAS OF EXPERTISE

**Engineering & Construction:** Valves and Actuators.



## Bacsoft

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Bacsoft's M2MGrid is an end-to-end remote control and monitoring system, helping you to avoid costly plant and supply failures.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Bacsoft is a global pioneer in the field of integrated remote control and monitoring of utility installations and industrial automation: from underground pipelines to aerial climate control and from isolated and inaccessible environments to bustling urban centers.

We combine cutting-edge automation and control knowledge with innovative software engineering skills in our state-of-the-art M2MGrid platform.

During the past 10-plus years, we have successfully deployed thousands of M2M solutions in a variety of first-tier enterprises and markets.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

At every point in the huge and complex infrastructure and management of oil and gas installations, real-time information on performance, status, and potential problems is needed for efficient, cost-effective operation. Bacsoft delivers end-to-end solutions for remote monitoring and maintenance of tanks, pipelines, and other plants across virtually any scale – customized for today's industry needs, and customizable for tomorrow's. Bacsoft's M2MGrid architecture is built on a powerful and versatile M2M cloud platform that utilizes commercial cellular networks for instantaneous and simultaneous monitoring and control of remote installations. Using real-time data, GPRS, or 3G technology, custom made end units, programmable interfaces, and a sophisticated Business Information platform, we can make your operation more secure, more efficient, more effective, and more profitable.

### AREAS OF EXPERTISE

**IT & Communications:** IT/Software.



## Ball-Tech Energy

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

**Our Whirled Sand Media Filter, based on new, no-backwash, patented sand rinsing, saves about 95% of regular media filter wash water.**

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Ball-Tech Energy specializes in the development, production, and marketing of water deposits treatment solutions for heat exchanges, scale removing, and deep water filtration.

Ball-Tech Energy was founded in 1994. The company markets its products across the world and is considered a world leader in its field.

Ball-Tech Energy designs and produces its products according to the strict design and manufacturing standards of ASME 31.3 and ASME VIII div2 2010 & 2011a.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

Ball Tech Energy's sand filters have been developed especially for water filtration in contaminated water applications where sand grains adhere to each other and cause filter clogging. In such applications, simple backwashing of the grains has proven ineffective.

In Ball Tech Energy's patented filter, every single sand grain is washed as an individual unit. Replacing the sand in the filter, as is done in standard filters, becomes unnecessary.

A Ball Tech Energy model WSMF-30" filter achieves 5 micron performance and is capable of bringing water turbidity level of 35 NTU down to a level of 2 NTU, taking into account a flow rate of 6 m<sup>3</sup>/hr.

Main advantages:

- 95% savings compared to commonly-used media backwash filters.
- Total water requirement for complete washing is at most 5% of the amount needed with any other sand media filter.
- Filter's media does not coalesce into clusters, so the filter's media does not clog.
- It is not necessary to replace or refresh the sand.

### AREAS OF EXPERTISE

**Water & Environment:** Water Filtration Systems.



# BARAN EPCO

Member of Baran Group Ltd.

## Baran EPCO

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

As a leading company in the Israeli natural gas market, Baran EPCO is involved in the design, permitting, and construction of various projects in the field.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

Baran EPCO is a global provider of engineering, technology, and construction services. The company offers integrated project services such as feasibility and conceptual studies, engineering and detailed designs, environmental permitting, regulation and validation, procurement and contracting, construction and site management, project management and control, operation and maintenance, and control and expert systems. The services range from EPC services to complete turnkey projects. Baran EPCO serves a broad range of market segments through an extensive range of sectors, such as manufacturing, industrial process, power, petroleum, water supply, sewage and hazardous waste, general building, transportation, and telecommunications. Baran delivers creative solutions to challenging projects and customizes them to the client's unique requirements. With 1100 employees worldwide, Baran has offices in Israel, Latin America, Mexico, Germany, Romania, Uzbekistan, Russia, Vietnam, Thailand, and South Africa.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Baran EPCO has been a major player in the natural gas market in Israel from the beginning. Baran has vast experience and the resources to provide solutions for the management, design, permitting, and construction of natural gas projects. The NG division consists of 52 employees, mainly project managers, project engineers, permitting coordinators, project controllers, and designers. Baran is involved in projects in fields such as Exploration Licensing, Receiving Stations, Transmission & Distribution Systems, Power Plant Feeding, PRMS, Power Generation & Co-Generation, Plant Conversions, CNG, and NGV.

### AREAS OF EXPERTISE

**Engineering & Construction:** EPC.



## BERMAD

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

For total fire protection in the O&G arenas, BERMAD offers a line of cost-effective, reliable, and long-lasting automatic deluge valves.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

For over 50 years, BERMAD has been a recognized pioneer and leading provider of high quality Hydraulic Control Valves. Incorporating advanced flow control technologies, BERMAD's best-of-breed solutions for fixed-water or foam-based fire-fighting systems have proven themselves in a wide range of fire protection systems in petrochemical plants – offshore and onshore, refineries, power stations, and public buildings. Today, BERMAD's tailor-made solutions help global customers meet the challenges of the 21<sup>st</sup> century all around the world.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Our range of products for the oil and gas industry include:

- Special Hazard Solutions – BERMAD produces fire protection systems for the oil and gas industries, petrochemical power plants, aviation, marine, and off-shore industries. In high-risk installations, heavy damage can be prevented by a fast and effective fire protection system response. BERMAD has the know-how, the experience, and the proven ability to provide effective control solutions for hazardous environments.
- Foam System Control Valve – Various foam systems have specific requirements, each demanding a different solution. BERMAD's experienced engineering staff tailor each solution to the needs of your particular system.
- Seawater Service – The use of seawater in firefighting requires that special attention be paid to the control valve construction materials. BERMAD offers a complete line of Seawater Service valves designed to meet your particular system requirements.

BERMAD Fire Protection Approvals & Certifications: UL, FM, VDS, LLOYD'S REGISTER, NFPA, and ABS.

### AREAS OF EXPERTISE

**Safety & Security:**

Fire Protection.



## BioCastle Water Technologies



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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

BioCastle offers an innovative biological wastewater treatment process, based on the SBP (Small Bioreactors Platform) technology.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

BioCastle is an environmental biotechnology company that specializes in the improvement of biological processes and the implementation of new treatment methods, resulting in significant cost reduction. Through the use of our innovative, patented, SBP (Small Bioreactors Platform) technology, we provide cost-effective and tailor-made biological treatments for industrial and municipal wastewater.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

The SBP (Small Bioreactors Platform) technology is an innovative patented technology integrating engineering and microbiology into a solution that enables us to adapt and accomplish a long term sufficient and selective biomass. Our products, NatiCap PetChem and NatiCap HardClean, are designed to treat hydrocarbons, aromatic molecules, and solvents (i.e. BETEX, phenols).

The SBP macro-capsules (2.5 cm long) are coated with a semi-permeable membrane (micro-filtration) which only allows dissolved molecules and compounds to traverse across the membrane, thus keeping the microorganisms inside with favorable micro-cosmos conditions for months, and allowing the growth a long-term, viable and selective biomass. The SBP capsules are integrated inside the wastewater treatment plant bio-reactor (host bioreactor) by using introduction devices encasing the perforated cages. The technology can be implemented within an existing infrastructure. BioCastle presents cost-effective treatment solutions to diverse types of wastewater. We are offering the benefit of working with thousands of viable bioreactors instead the one you have today, resulting in process efficiency improvement and cost reduction.

### AREAS OF EXPERTISE

**Water & Environment:** Biological Wastewater Treatment.



## Biological Petroleum Cleaning



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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Unique bio-remediation technology for oil and gas wastewater treatment, with patented closed-loop monitoring and control, eliminating all upsets and saves CAPEX/OPEX.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Biological Petroleum Cleaning Ltd. (BPC) is a cleantech company that specializes in the bio-remediation of industrial waste water.

BPC developed a revolutionary bio-remediation technology named Automated Chemostat Treatment (ACT). ACT is a robust treatment that digests high COD loads and absorbs inlet fluctuations, prevents biomass upsets, and guarantees stable quality at all times. ACT is especially optimized for the oil and gas industry. Stability and complete automation are two of the primary advantages of the BPC-ACT system.

BPC solutions are available for new treatment plants and also as an upgrade to existing plants seeking improved and sustainable quality.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

BPC offers solutions for refineries and petrochemical factories as well as a unique setup for oil and gas produced-water treatment. The BPC-ACT™ solution for produced-water is designed to operate efficiently even under the constantly changing conditions that often occur with produced water and industrial wastewater. The fully automated control unit is modular and can be easily transported from one drilling site to another. This delivers additional cost savings, as one unit can serve several stations during the exploration phase. The control unit effectively monitors and balances the system to ensure clean water discharge at all times.

BPC's plug and play systems for produced-water treatment can handle any capacity. Following the BPC-ACT™ treatment, the water will meet the required standards for re-injection or disposal, according to client needs.

### AREAS OF EXPERTISE

**Water & Environment:** Biological Wastewater Treatment.





## Bipol Energy

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Engineering  
Management  
Consulting

### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Bipol Energy offers specialized skills, management, and support services for the O&G industry.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Bipol Energy offers specialized skills, management, and support services to private and public companies in the oil and gas industry as well as to government agencies. Our expertise is based on years of experience in the design, construction, and management of both offshore and onshore oil and gas development projects. Our knowledgeable and competent engineers, managers, and consultants have held positions in various reputable companies in the industry and have worked for some of the world's leading oil and gas companies and engineering contractors in the U.S., U.K., and Far East.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Our services to the oil and gas industry include:

- Management consulting.
- Offshore engineering and operations.
- Supervision and inspection of offshore and onshore sites.
- Marine design, feasibility studies, and project design.
- Project planning, development, and management.
- Business development, commercial, and regulatory services.
- Technical, economic, and legal due diligence.
- Oil and gas field surveys.
- Oil and gas field protection and security design.

### AREAS OF EXPERTISE

**Consulting & Services:** Engineering.



## Blue I Water Technologies

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Blue I's water quality analyzers provide high-precision online measurements that excel in challenging environments such as oily water and seawater.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Blue I Water Technologies is a global provider of advanced controllers and analyzers for the water treatment market. Blue I's online devices identify, quantify, and analyze the chemical components of water, measuring parameters such as free chlorine, total chlorine, conductivity, turbidity, pH, ORP, temperature, and flow rate. Customers worldwide use Blue I's leading technologies to optimize water-based processes and analyses in a variety of applications including in the oil and gas industry.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Blue I Water Technologies' controllers provide high-precision online measurements that excel in the challenging environments common to the oil and gas industry, such as colored water, oily water, seawater, and high temperature.

HYDROGUARD HG-702 and HG-702 TurbiPlus are online and modular colorimeter analyzers offering lab accuracy, even in harsh conditions, with a reduced total cost of ownership (TCO). Water quality analysis can combine up to eight parameters in a single analyzer: turbidity, free chlorine, total chlorine, conductivity, pH, ORP, temperature, and flow rate.

HYDROGUARD HG-702's pioneering colorimeter technology provides the optimal combination of high-precision online measurements, long-term reliability, and low maintenance.

### AREAS OF EXPERTISE

**Water & Environment:** Analyzers.



### BlueBird Aero Systems

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#### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

BlueBird provides unmanned aerial real-time video and high resolution mapping for strategic infrastructure protection and emergency situations management.

#### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Bluebird Aero Systems Ltd, founded in 2002, is a dominant player in the tactical Unmanned Aerial Systems (UAS) industry, specializing in the design, development, and production of micro, mini, and small tactical UAS and peripheral equipment, and delivers exceptional, unprecedented, proven solutions to meet the challenges of military, HLS, and civilian markets. Bluebird's rapidly deployed UAS are all operated from a unified, intuitive, cost-effective, and advanced ground control station. BlueBird's UAS have accumulated over 15,000 operational sorties in Israel and around the world.

#### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

We provide continuous cost-effective monitoring and surveillance along and over pipelines, power lines, and strategic infrastructure to detect threats and manage critical events using UAS equipped with day and night real-time video surveillance or high resolution mapping payloads.

We establish command and response centers for routine monitoring and inspection, emergency events, oil spills, etc. and provide day and night remote sensing solutions that can assist in saving lives and prevent losses resulting from theft, criminal activities, leakages, overheating, corrosion, wear, aging, etc.

BlueBird's UAS capabilities for the oil and gas industry include:

- Monitoring and protection of pipelines, power lines (both above and below ground or vegetation), and strategic infrastructures.
- Detection and mapping of active underground pipelines.
- Detection of leaks and spills.
- Prevention and monitoring of hazardous environmental events.
- Detection of unauthorized activities and obstructions.
- Easy monitoring of large areas

#### AREAS OF EXPERTISE

**Safety & Security:** Unmanned Aerial Systems.



## BQR Reliability Engineering



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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

The apmOptimizer helps achieve improved asset performance and reliability and optimized maintenance processes, predictive maintenance, lifecycle costs, and inventory management.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

The apmOptimizer is a decision-support solution that helps organizations reduce their maintenance and lifecycle asset costs while increasing the assets' availability and performance. The apmOptimizer uses innovative, unique algorithms and RCM/ILS methodologies to build an optimal asset maintenance model that covers maintenance policies, maintenance schedules, maintenance-related resources, and supply chain logistics.

The costs of spare parts, maintenance, and logistics represent a major part of current and future asset costs and they must be carefully considered both in the design process and in the deployment and operation phases. Incorrectly defining maintenance strategy can impact an asset's performance for its entire lifespan and considerably decrease profit margins.

Whether you are designing a new asset, completely reviewing your entire maintenance concept, or improving your current maintenance strategy, the apmOptimizer is the best spare parts and maintenance strategy solution.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

For over two decades, BQR's software has been providing the oil and gas industry with solutions that maximize plants' reliability and optimize their maintenance processes. With automated tools that analyze reliability and maintenance, BQR's solutions help cut design time, reduce costs, and improve the reliability of oil and gas fields.

BQR tools are recognized by many industry leaders as essential Product Lifecycle Management (PLM) and Enterprise Asset Management (EAM) systems for achieving improved reliability, testability, safety, and maintenance planning and optimization.

### AREAS OF EXPERTISE

**IT & Communications:** IT/Software.



## BriefCam

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

BriefCam's rapid video review enables users to access immediate information and extract value from videos for perimeter security and safety.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Perimeters are heavily monitored by CCTV and often include low-activity areas such as: gates, stairwells, hallways, exits, etc. But is this footage watched in time and used effectively? BriefCam's rapid video review technology enables users to access actionable information for security, safety, and productivity. Going over hours of post-event video in minutes shortens the gap between incident report and response time. Proactive video review can avert future incidents. BriefCam installations include safe cities, transport authorities, enterprises, campuses, law enforcement, border control, HLS agencies, and more.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

BriefCam's Syndex® meets the oil and gas industry needs by offering a powerful set of tools to reduce the time and effort required to review video and locate events.

Investigators reach targets more quickly than ever before, aided by three modules for rapid video review, search, and analysis:

1. ReView hours in minutes with Video Synopsis™ technology. Refine and search results by attributes (e.g., color, direction, path, size, etc.). Access the original video in a single click.
2. ReSearch video data with graphic visualization (heat-maps, charts, etc.) to gain insights. Drive informed decision-making by identifying behavior patterns and trends.
3. ReSpond for receiving alerts for live monitoring and proactive review.

Benefits and features:

- Award-winning video synopsis technology.
- Facilitates collaborative investigation.
- Extends the security investment to operational and business applications.
- A software-only solution that connects easily to the video recording platform.
- PTZ camera support.

### AREAS OF EXPERTISE

**Safety & Security:**

Video Surveillance Technologies and Solutions.



## Camel Grinding Wheels

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

CGW's abrasive grinding wheels contribute in pipe laying, pipe notching, jointing, portable cutting, grinding, weld removal, finishing, and polishing.

### COMPANY PROFILE (Company Stage – General: R&D)

For over 50 years, CGW has been Israel's only abrasives manufacturer. CGW's vitrified and organic (*Resinoid*) bond products are available in more than 40 countries, in locations from small machine shops to advanced manufacturing centers. In North America, our subsidiary in Chicago, CGW-USA, maintains a large warehouse and manufacturing facility, and our converter of coated abrasives is located in Los Angeles. Together with our subsidiary in Brazil, CGW-Brazil, we cover all North and South American regions. We take pride in developing and producing high-quality, high-performance products to meet the technological challenges of grinding conventional metals and today's sophisticated alloys.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

Most of CGW's products used in the oil and gas industry are cutting discs, grinding discs and flap discs. Vitrified bonded wheels are also used for outside diameter grinding, internal grinding and more. CGW has the experience and the know-how for manufacturing all of these products.

### AREAS OF EXPERTISE

**Engineering & Construction:** Welding and Grinding Tools.



## The Center for Hyperpolarized MRI Molecular Imaging

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The Technology Transfer Company of Hadassah University Hospitals

### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

High-resolution NMR measurements of oil and gas samples.

### COMPANY PROFILE (Company Stage – General: R&D)

The Center for Hyperpolarized MRI Molecular Imaging at Hadassah Ein-Kerem aims to develop better and new diagnostic imaging tools for neurodegenerative diseases, cancer, diabetes, and epilepsy. We combine chemistry and nuclear magnetic resonance (NMR) technology for this purpose.

The expertise of the lab includes:

- Biomedical NMR.
- Preclinical & clinical magnetic resonance imaging (MRI).
- Magnetic resonance spectroscopy (MRS).
- Molecular imaging probe development.
- Hyperpolarized MRI.
- High resolution NMR spectroscopy.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

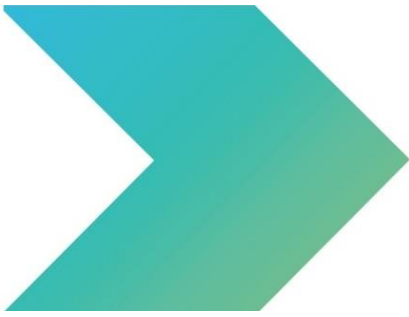
Our core facility is capable of providing analyses of the composition of oil and gas samples using high-resolution proton and carbon-13 NMR at 5.8 Tesla.

Compared with “bench-top” NMR spectrometers, this higher resolution allows:

- Superior materials resolution abilities;
- Improved identification accuracy;
- Higher sensitivity (detecting smaller concentrations of solution components).

### AREAS OF EXPERTISE

**Consulting & Services:** Lab/R&D.



## Cequesta Water

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Produced water pre-treatment for any flow at any location, hybrid solution, saves money and space, modular and mobile.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Cequesta Water has designed, manufactured, and marketed innovative solutions for water, wastewater, and sludge treatment systems for 25 years with over 50 installations worldwide.

Our in-house designed ASP (Automated Sludge Press) and GreenFloat are used in a wide range of wastewater treatment applications around the world.

Cequesta Water's success is based on its strong, innovative engineering division, and we are pleased to offer full design or customized turnkey projects.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

We design and manufacture the HGD as a unique solution for produced water treatment. We specialize in removing oils, solids, and metals as a vital step for any downstream treatment like thermal and RO desalination. Our equipment is always shipped completely ready and assembled by regular transportation means to any location. All wet surfaces are made of special plastic profiles, preventing corrosion, without the need to use exotic materials, or coatings. Our systems accommodate flow rates from 50 m<sup>3</sup>/hr to 200 m<sup>3</sup>/hr per module.

Our HGD GreenFloat is essential equipment for the oil and gas industry, as a stand-alone solution or as a mandatory pre-treatment for any further treatment such as RO and thermal distillation.

### AREAS OF EXPERTISE

**Water & Environment:** Water Separation Systems.





## Ceragon Networks

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

**Unique terrestrial MW connectivity allows offshore connectivity with built-in stabilization for high capacity, low latency communications.**

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

As the world's #1 wireless backhaul specialist, Ceragon Networks ensures that mobile and fixed-line carriers, as well as private network operators, have the cost-effective transmission capacity to deliver the voice and premium data services. Ceragon's solutions support all wireless access technologies, delivering more capacity over longer distances under any given deployment scenario. Customers depend on our expertise and partnering approach to provide wireless backhaul solutions that meet today's needs while guaranteeing a comfortable and cost-effective path to future requirements.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

We provide communication solutions to FSO and FPSO and enable reliable, low latency, high capacity communications. Ceragon's PointLink system is an integrated solution for offshore connectivity, allowing mission critical performance in harsh conditions with a state of the art stabilization system and customer specific software and integration. The PointLink is a superior solution for any off-shore requirement including remote operations and crew infotainment for moving platforms, drilling rigs and floating production, storage and offload ships (FPSO), leveraging the high availability, low latency and high capacity of Ceragon's FibeAir IP-20 platform. Designed for backbone offshore networks carrying high capacities in low frequency bands over long distances, the system is equipped with antenna variants of 1.2-3m in diameter, mounted inside a fiberglass dome. Movements are controlled via a processing unit controlling the servo motors to provide high reliability in extreme weather conditions. The system is certified for operation in ATEX Zone 1 environment. Ceragon offers turnkey solutions with a full menu of services.

### AREAS OF EXPERTISE

**IT & Communications:**

Communication Technologies and Systems.



### Check Point



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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

**Comprehensive cyber security solutions for IT and OT networks.**

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

Oil and gas offshore and onshore sites are subject to cyber-attacks. Check Point provides the following solutions to secure this environment:

- Secure both OT and IT environments.
- Provide clear segmentation between IT and OT.
- Secure against a wide variety of attack vectors.
- Secure multi SCADA vendor environments.
- Supply OT network visibility – network, protocols, commands and values.
- Manage security alerts and policies.
- Provide virtual patching.
- Secure networks in harsh environments.
- Comply to security regulations.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Full visibility and granular control of SCADA traffic:

- Log SCADA protocols, including commands and parameters for forensic analysis of incidents in your operation networks.
- Create a baseline of known/legitimate traffic to identify and prevent deviations and anomalies.
- Support of ICS/SCADA-specific protocols including BACNet, DNP3, IEC-60870-5-104, IEC 60870-6 (ICCP), IEC 61850, MMS, Modbus, OPC, Profinet, S7 (Siemens) and many others.
- Detect and prevent exploits of ICS-vulnerabilities with SCADA IPS signatures, closing the window of exposure between vulnerable and patched systems.
- Leverage our full range of threat prevention capabilities including firewall, IPS, anti-malware, and sandboxing to detect and prevent inbound threats to SCADA networks.

1200R - Dedicated security gateway for harsh environments:

Operates in extreme temperatures from -40°C to 75°C in a compact fan-less design with no moving parts and DIN rail mounting.

### AREAS OF EXPERTISE

**Safety & Security:** Industrial Cyber Security.

## Chemovil

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Chemovil offers one central hub for a variety of services and products in the oil and gas industry.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

Chemovil provides premium services for the oil and gas industry through the most comprehensive hub of services. Chemovil holds seven specialized divisions: **TIC, Chemicals, Industrial Supply, Logistics, Waste Management, Water** and **Special Projects & Services**.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

The hub of professional divisions provides a comprehensive and wide spectrum of services:

- **TIC (Testing, inspection, certification) Division** offers a portfolio of analytical lab services, sampling services, inspections, professional consulting, and occupational safety inspection. The division offers as well certification in areas such as health, food, equipment, systems, facilities, and tools.
- **Chemicals Division** offers chemical manufacturing, blending services, distribution of chemicals, specialization in materials' development, and tailor-made formulations.
- **Industrial Supply Division** offers production and distribution of flow-related products, engineering of plastics and composites, infrastructure pipes, and fire extinguishing.
- **Logistics Division** performs full supply chain management: import & export services, container loading/unloading, customs clearance, repackaging services, emergency vehicles and equipment for hazardous materials, TPL services, operational areas, warehousing, and transportation.
- **Waste Management Division** offers total waste management solutions, collection, transportation, recycling, and disposal. It offers as well the removal and handling of toxic and hazardous waste.
- **Water Division** offers total water engineering solutions, water clarification, solid precipitation, and pollutant removal. In addition it specializes in drilling fluids treatment and in operations of fluid treatment facilities.
- **Special Projects & Services Division** provides offshore containers, tailor-made solutions for customer-specific challenges, a range of ancillary equipment such as DNV certified offshore containers, half height containers, open-tops, skips, workshops, drums, basket, and more.

### AREAS OF EXPERTISE

**Consulting & Services:** Environmental, Inspection and Testing, Lab/R&D, Logistics.



## CONTROP Precision Technologies

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

CONTROP has 28 years of experience specializing in the high-end EO/IR arena, with its solutions implemented in the harsh environments of offshore O&G infrastructure.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

CONTROP, an Israeli based hi-tech company established in 1988, specializes in the research, development, and production of innovative electro-optical and precision motion control systems for defense and homeland security applications. The company's state-of-the-art products are installed on oil rigs, meeting the requirements and conditions of harsh maritime environments.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Our unique observation and scanning solutions have been tested and field-proven for many years. CONTROP's day/night surveillance systems for oil and gas rigs include:

- Nonstop, 24/7/365 day/night capability.
- Automatic intruder detection and alert.
- Dual-axis gyro stabilization.
- Applicability for long, medium, and short ranges.
- Suitability for harsh maritime environments.
- Proven and mature systems.
- Two modes of operation: remote-controlled observation or autonomous, panoramic scanning and display.

### AREAS OF EXPERTISE

**Monitoring & Control:** EO/IR Detectors.



## Coral Energy Services



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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

The leading marine agent and maritime logistic agent in the Israeli oil and gas industry for the past 30 years.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

Coral has been involved in all Israeli offshore projects for the past 30 years. Coral provides maritime logistics services to operators, rig owners, offshore vessels, and service providers. Our services include: Permitting, Personnel Logistics, Port Services, and all other services related to Offshore Projects. Coral regards safety and environmental matters as the top priority in all its activities.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Setting-up operations for foreign operators / service providers, vessel importation, arranging permits with the relevant authorities, coastal shipping permits, Israeli crew, port & off-port facilities, shore base management, personnel logistics, coordination of port services, on-line (24 hours a day) logistics assistance, clearance in/out of marine spread, coordination of marine spread, MEDEVAC services, coordinating supplies for vessels, rigs, and crews, consultancy regarding off-shore operations in Israel.

### AREAS OF EXPERTISE

**Consulting & Services:** Logistics.



## Curapipe System

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Curapipe's innovative Trenchless Automated Leakage Repair (TALR) repairs leaky holes and cracks in pipes that normally remain undetected by existing detection technologies.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Established in 2007, Curapipe System Ltd. is a pioneering provider of an innovative breakthrough leak curing solution for buried pipelines. At Curapipe, we address the needs of water utilities and urban water systems to repair cracks and leaks in their mains that go unnoticed.

With our team of highly skilled Ph.D. technologists in the fields of hydraulics, materials, and pipelining, we provide our unique TALR solution. Benefits include: trenchless, automated solution, low-cost, and rapid deployment.

TALR has recently been pilot tested with major urban water utilities in Israel, Brazil, Mexico and Italy.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEVELOPMENT)

We are in the process of adapting our TALR technology to be applied in the oil and gas sector to provide oil and gas companies with the same benefits we are providing to water utilities.

### AREAS OF EXPERTISE

**Engineering & Construction:** Automated Systems/Robotics.



**CYFORT**  
Making security simple

## CYFORT

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

CYFORT's unique cyber intelligence platform CYSINFF provides entities in the O&G industry real-time alerts on planned attacks, compromised assets, and industry-wide alerts.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

From political to terrorist motives, cyber-attacks are frequently used when targeting strong industries such as the oil and gas industry.

CYFORT's solution offers unique high-end, in-house-developed technology coupled with a team of experienced cyber security experts and provides a full cycle intelligence service to the oil and gas industry.

The company has implemented its intelligence platform in financial institutions, governments, and the automotive industry and has some initiatives in the oil and gas industry.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

The CYSNIFF platform provides the oil and gas industry with a full cyber intelligence solution. CYSNIFF is a three-tiered intelligence platform, providing historical intelligence reporting, a real-time monitoring service that detects present threats, and threat-maps which plot likely scenarios for possible future attacks.

The system harvests data from open sources in the internet (such as social networks and independent blogs) as well as from closed societies of hackers in the "deep web" and covert IRC channels.

CYSNIFF can provide the oil and gas industry real time alerts. Notifications regarding leakage of data, planned cyber-attacks, and successful exploit attempts are provided at a moment's notice.

Organizations that utilize the CYSNIFF platform will benefit from: the ability to stay ahead of coming threats and act proactively, a reduction in the risk of possible information exposure and reputation damage, and the mitigation of cyber-damages and data leaks while they are still fixable.

### AREAS OF EXPERTISE

**Safety & Security:** Industrial Cyber Security.



## Da-Ta Biotech

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Da-Ta Biotech is a service provider with a biological laboratory and research team developing tools for bioenergy, biofuel, and biological catalysts.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Da-Ta Biotech provides scientific laboratory services in collaboration with the research teams of our customers in the biological industry, medtech, and biotech. In addition to start-ups and manufacturers that are interested in R&D and the transfer of new ideas from academia to industry, we collaborate with bioenergy companies and companies developing biofuels. We provide scientific escort and actual performance of biological projects including model set up and assay validation.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEVELOPMENT)

Da-Ta Biotech's services to the oil and gas sector involve performing unique, tailor-made biological laboratory projects. We collaborate with the R&D teams of our customers and set up an exact biological model in our lab to investigate and advance their development in the field of biofuels and related organisms. Such projects include: (a) developing the ability to alter the biochemical chain by affecting the enzymatic activity of related enzymes, (b) the proliferation of relevant bacteria, and (c) the expression of proteins and their effect on oil production, quantity, and applicability. We provide our customers with the scientific know-how for success in their projects.

### AREAS OF EXPERTISE

**Consulting & Services:** Lab/R&D.





## Dayanson Shaked

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Our company provides third-party quality control, welding supervision/inspection, and non-destructive testing services to the O&G industry.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Dayanson Shaked is an independent, privately-owned company that provides quality control, welding supervision/inspection, and non-destructive testing (NDT) services to engineering, power utility, manufacturing, aerospace, chemical, industrial, and construction companies.

Dayanson Shaked's personnel have extensive practical experience in non-destructive testing (NDT), project management, quality control, and welding supervision of base materials and welded parts such as coal ship unloader cranes, mobile lifting cranes, hydraulic equipment, metal construction welded structures, oil tanks and reservoirs, fuel storage tanks and piping, high pressure piping welds, pressure vessels, gas pipeline welds, non-pressure piping welds, power station structures, stacks, steam turbine components, HRSG stations, military equipment, electric poles, aerospace piping, bridges, and castings.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Dayanson Shaked has extensive practical experience in existing and new construction projects in power generation facilities, natural gas pipelines, compressor stations, and the petrochemical industry.

Our expertise has been applied in many fields such as consulting, engineering, non-destructive inspections (NDT), project management, quality control, welding inspection and supervision during fabrication, and construction and assembly of components.

### AREAS OF EXPERTISE

**Consulting & Services:** Inspection and Testing.



## D-Fence Electronic Fencing and Security Systems



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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Manufacturers of high-tech perimeter security and intrusion detection systems for the protection of sensitive installations.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

D-Fence is a leading manufacturer of comprehensive perimeter security solutions. Through cutting edge technology, D-Fence's perimeter solutions meet the market's growing demand for reliable, state-of-the-art security systems designed to protect and deter intruders from sensitive commercial, government, and private installations. Over a period of 19 years and hundreds of installations, D-Fence has earned its reputation as a trusted partner. D-Fence offers systems with flexible design with an emphasis on unobtrusive, innocent looking electronic fences that blend into their natural environment.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

D-Fence's protection systems using strain gauge sensors:

- D-Taut Wire: Tensed wires that provide an alarm if a person tries to bypass them.
- D-Hybrid: A taut wire system that is also an electrified fence with a non-lethal shock.
- D-Corative: A protection system based on decorative fences, blending perfectly with the environment where they are installed.
- DF-2100 Electronic Concertina: A razor wire concertina combined with an electric shock concertina.
- D-Ground: Seismic sensors that identify an intruder's movements as soon as he enters the protected area, providing an early warning.
- D-Bolt: A system to protect equipment. The sensors are embedded into bolts/screws and any attempt to open or loosen them generates a warning and sends its location wirelessly.
- Electronic Welded Mesh Perimeter Security System: A welded mesh fence turned into an indicative fence. The sensor is connected between the mesh panels in a modular and easy-to-install manner.

### AREAS OF EXPERTISE

**Safety & Security:** On Land/at Sea Perimeter Protection.



## DHV MED

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Environmental engineering consulting with experience in industrial regulations for the energy, gas, and chemical industries, with a team of 30 professionals.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

DHV MED was founded at 1996 as a subsidiary of Royal HaskoningDHV from the Netherlands and Environmental Protection Technologies from Israel. The company in Israel provides consulting engineering services in water, environment, and related infrastructure and counts 30 professionals in its staff.

The company deals with environmental aspects of water pollution, air pollution and spatial dispersion (using advanced models such as AERMOD), soil contamination, water resource management, odor problems, and energy. DHV MED consults about the implementation of advanced emission and other environmental standards such as EU directives (like IPPC) and non-point emission control (such as LDAR).

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

DHV MED is an advanced environmental engineering consulting company with vast experience with regulation implementation in the process industry, including the gas and energy sectors.

We offer top professional advising services on the following issues in the oil and gas industry:

- IPPC and similar regulation implementation.
- Permit applications.
- Best Available Technique (BAT) analysis.
- Gap analysis toward regulation implementation.
- Environmental Impact Study/Assessment (EIA/EIS).
- Air pollution dispersion modeling.
- Stakeholder analysis.
- Historic site survey.
- Environmental Management System (EMS).

### AREAS OF EXPERTISE

**Consulting & Services:** Engineering, Environmental.



## DiagSense

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

DiagSense offers on-line leak detection system and predictive maintenance solution for mechanical equipment such as boosters, pumps, and pipelines.

### COMPANY PROFILE (Company Stage – General: R&D)

Using innovative statistical algorithms, DiagSense has developed a predictive maintenance solution, which enables the monitoring and prediction of malfunctions in various mechanical systems, such as pumps, pipelines, and boosters. Our solution will reduce downtime for repairs on any kind of machinery and pipelines. DiagSense's unique solution significantly improves detection of malfunctions in mechanical equipment by up to 99% and dramatically decreases false alarms on any monitored machinery.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

Today when everything is monitored and connected, there is a tremendous demand for data analysis services and automatic decision making tools. DiagSense offers the following services for the oil and gas industry:

- On-line leak detection system.
- Monitoring and analyzing on-line and off-line data acquired by SCADA systems, and alerting upon evolving failures in the monitored equipment - pumps, boosters, and pipelines.
- Help the maintenance team to better analyze and understand unscheduled events and increase the system's stability.

DiagSense's solution integrates with SCADA systems, acquiring data from sensors, learning and characterizing the normal system behavior, alerting for system abnormalities, and suggesting measures to increase efficiencies and reduce costs.

### AREAS OF EXPERTISE

**IT & Communications:** Big Data & Analytics.



## DMDA

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

DMDA is an engineering consulting and testing company specializing in high-end imaging systems to locate hydrocarbon gas (VOC) leaks.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

The benefits we offer to our customers:

- Improved safety by monitoring high-risk processes and plants.
- Cost-effective fugitive emissions leak detection and pipeline repair.
- Greater efficiency when monitoring a large number of components.
- Non-contact measurement instruments that can be used in hard-to-access locations.
- Detection of small leaks from several meters away and big leaks from hundreds of meters.
- Prevention of loss of revenues.
- Expedient inspection and more accurate diagnosis.
- Reduced insurance premiums.
- Ability to detect many different gases.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

DMDA provides infrared systems which are able to visualize gas. The systems produce a full picture of the scanned area, and leaks appear as smoke on the system's LCD, allowing the user to see fugitive gas emissions. The image is viewed in real time and can be recorded in the system for easy archiving.

DMDA's experienced engineering staff is certified and able to provide training and certification to others. Our staff has more than 60 years of experience in the application of IR thermography for helicopter, mobile laboratory, and ground use.

DMDA utilizes advanced technology and software to streamline the monitoring and data collection processes, with a proven 25% savings on inspection and reporting.

On average, natural gas processing plants lose between 0.05% and 0.5% of their total production to fugitive emissions. DMDA can save facilities between \$2,000,000 and \$20,000,000 per year of fugitive gas losses.

### AREAS OF EXPERTISE

**Monitoring & Control:** EO/IR Detectors.



## Dor Chemicals

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Dor Chemicals offers the O&G industry materials and services, including H<sub>2</sub>S scavengers, methanol, tolling processing, recovery services, and storage of hazardous materials.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

Dor Chemical, a part of the Dor Group, is engaged in the manufacturing and trading of chemicals and logistics. The Dor Group offers comprehensive and innovative solutions to environmental demands and alternative energies. It continually maintains high production quality and is certified for environment and safety standards according to ISO 9001:2008, ISO 14001: 2004, and OHSAS 18001:2007. Dor Group's main products are:

- Methanol.
- MTBE (Methyl Tertiary Butyl Ether).
- HP MTBE (High Purity MTBE).
- Adhesives.
- Paint colors.
- Formaldehyde & Formaldehyde derivatives.
- Resins.
- Hydrogen (99.999%).
- H<sub>2</sub>S scavengers.
- Additives for corrugated cardboard adhesives.
- Solvents recycling.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Dor Chemicals is the biggest provider in Israel of methanol and other chemicals applied in the oil and gas industry. We offer the ECODOR - a series of H<sub>2</sub>S scavengers that enable oil and gas companies to comply with environmental regulations and safety requirements. Dor Chemicals also specializes in recycling and recovery processes of materials used in the drilling and production processes, such as monoethylene glycol (MEG). This boosts cost savings, and increases recycling rates and environmentally friendly production. Additional services Dor offers to the oil and gas industry are storage of all types of dangerous substances including solids, liquids, and gas. Our storage facilities are located near the Port of Haifa, allowing for smooth transportation and logistics.

### AREAS OF EXPERTISE

**Engineering & Construction:** Materials and Coatings.



## Dorot Control Valves

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Developer and supplier of products for control and optimization of fluid systems.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

Dorot Control Valves is a world leader in the development and supply of sustainable technologies and products for control and optimization of water systems. Established in 1946, Dorot has a long tradition of providing innovative products and solutions for various applications in water and other fluid systems.

With a diversified product line of advanced hydraulic control valves, air release and vacuum break valves, and a wide range of complimentary products, Dorot offers solutions to many different industries.

Dorot is committed to quality and follows strict global standards.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Customers can count on our technologies and products for control and optimization of fluid systems to protect their process assets. We bring our advanced hydraulic control valves expertise, advanced design tools, and modern manufacturing technologies to applications in the oil and gas, refining, power generation, petrochemical and water control industries.

In order to work in a varied conditions, Dorot's products are made from a wide range of materials such as titanium, nickel aluminum bronze, cast iron, ductile iron, cast steel, stainless steel, bronze, super duplex, PVC, and polypropylene.

Dorot's customer support is not limited to the supply of products. It also consists of uncompromised know-how, expertise, and professionalism in planning, designing, and providing the optimal hydraulic control solutions.

Planning and manufacturing procedures are routinely assessed and improved. Each product is hydraulically tested in advanced testing facilities that simulate harsh field conditions.

### AREAS OF EXPERTISE

**Engineering & Construction:** Valves and Actuators.



## DSIT Solutions

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

DSIT's Shield™ family of underwater security systems provides a strong defense for the O&G industry from underwater threats.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

Our Shield™ family of underwater security relies on fully-automated operation and long detection ranges to enable response in all types of sea conditions with zero malfunctions. Our systems are currently protecting naval bases, energy terminals, offshore platforms, commercial ports, and other important infrastructure around the world. The Shield family varies from long-range (up to 3.5 km) detection of hostile SDVs using the AquaShield ER™ (Extended Range) to local protection of oil and gas infrastructure against underwater intrusion or sabotage using the AquaShield™ and PointShield™ Diver Detection Sonars.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Maritime assets throughout the world are exposed to underwater threats, including over 3,500 energy installations. Offshore platforms, terminals, ports, nuclear power facilities, underwater pipelines, vessels, and many other critical coastal and offshore facilities are considered easy targets for attack or intrusion. It is almost impossible to detect scuba divers that, with the assistance of a Swimmer Delivery Vehicle (SDV), can easily penetrate any site. For years there has been a growing demand for underwater security systems that will provide warning against intrusion and sabotage of divers. DSIT's underwater security solution is based on active sonar utilizing fully-automated classification software that allows any security officer to operate the system easily without prior knowledge of sonar operation. The sonar used is a Diver Detection Sonar (DDS), which is able to detect SDVs and Unmanned Underwater Vehicles (UUVs) as well.

### AREAS OF EXPERTISE

**Safety & Security:** On Land/at Sea Perimeter Protection.





## Ecolog Engineering

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Ecolog Engineering provides advanced services by a well-trained and qualified team: seismic surveys design, QC acquisition and processing, interpretation, and drilling prospects.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Ecolog's exploration and geophysics team has a track record of designing, managing, and executing exploration activities and geophysical-geological investigations.

Our well-trained, field-oriented, geophysicists and geologists work in collaboration with Ecolog's engineering and environmental departments in a multidisciplinary and industrious environment. The exploration and geophysics team operates two Kingdom© workstations with advanced modules for data processing and interpretation (EarthPak and AVOPak), GIS ArcView©, Shake© for seismic hazard analysis, FracMan© for fracture and reservoir analyses/modeling and more. The team regularly collaborates with its domestic and foreign associates, providing a wide spectrum of services that meet international standards on world-class projects.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Ecolog's exploration and geophysics team provides a wide range of support services including:

- Support for acquisition of exploration license.
- Design of seismic surveys (shallow/deep refraction and reflection, terrestrial, and marine).
- Quality Control (QC) of acquisition and processing (wells, seismic, magnetic etc.).
- Seismic interpretation of 2D and 3D surveys in conjunction with geological (wells), magnetic, and gravimetric data.
- Stratigraphic correlation, paleogeographic reconstruction, seismic stratigraphy, and basin analysis.
- Reservoir compartmentalization characterization, fracture and flow modeling.
- Hydrocarbon system characterization.
- Preparation of drilling prospects.

### AREAS OF EXPERTISE

**Consulting & Services:** Engineering, Environmental, Geological/Geophysical.



## EGMO

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

EGMO is proud to introduce TWISTMax, an advanced pneumatic actuator for ball and butterfly valves in a compact design for the oil, gas, instrumentation, and offshore industries.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

Founded in 1965, EGMO offers its customers decades of experience in the innovative development and production of an extensive range of valves, actuators, fittings, tubes, manifolds, vessels, and other special components.

EGMO products are specifically designed to meet the stringent standards and requirements of each industry, and we are proud to bring our skill and experience to oil and gas industry starting with pneumatic actuating solutions.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

EGMO is proud to introduce TWISTMax, the new series of innovative actuators which offers maximum power in a compact size. The unique design saves you as much space as possible! TWISTMax actuators are pneumatically operated, and their special structure guarantees increased lifecycle and reliability. TWISTMax actuators are designed to mount on all types of ball valves and butterfly valves. The TWISTMax can be supplied with either double acting or spring return versions and control accessories.

TWISTMax Actuators main features:

- Maximum torque with minimum size.
- Stainless steel structure.
- Superior torque efficiency.
- Low friction / motion resistance.
- Compatible with any quarter-turn valve.
- Long life cycle.
- Maintenance free.
- Light weight.
- Economical air consumption compared to rack and pinion actuators.

### AREAS OF EXPERTISE

**Engineering & Construction:** Valves and Actuators.



## Elad Technologies

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Elad Technologies specializes in turnkey solutions for industrial wastewater, especially for hard-to-treat streams and ZLD solutions.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

The environmental division of ELAD specializes in supplying turnkey solutions for the treatment of industrial and agricultural wastewater.

We design, build, commission, and supply long-term operation for specific and difficult wastewater and specialize in Zero Liquid Discharge (ZLD) solutions for industrial wastewater streams, including sludge dewatering and drying.

We specialize in treating hard-to-treat waste streams including emulsions, oils, brine, and heavy metals.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

Our waste treatment and environmental solutions include:

- Oil removal.
- Emulsions treatment.
- Treatment of mixed organics and brine.
- Heavy metal removal.
- Rinse water recycling.
- Zero Liquid Discharge solutions.
- Biological treatment.
- Sludge dewatering and sludge drying.
- Air treatment: scrubbers and mist eliminators.

We employ the most advanced technologies, including evaporation (vacuum evaporation, MVR), electro-coagulation, DAF, etc.

### AREAS OF EXPERTISE

**Water & Environment:** Turnkey Solutions, ZLD Solutions.



## Elbit Systems

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

**Integrated defense, security, and command and control solutions for O&G operations on land and offshore, leveraging a wide range of advanced technologies and capabilities.**

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

Elbit Systems Ltd. is an international high-tech company engaged in a wide range of defense, homeland security, and commercial programs throughout the world. The company, which includes Elbit Systems and its subsidiaries, operates in: aerospace, land/naval systems, command, control, communications, computers, intelligence surveillance, and reconnaissance ("C4ISR"), unmanned aircraft systems, advanced electro-optics, electro-optic space systems, electronic warfare suites, signal intelligence systems, data links and communications systems, and radios. The company also focuses on the upgrading of existing platforms, developing new technologies for defense, homeland security, and commercial aviation applications and providing a range of support services, including training and simulation systems.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Our range of solutions for the oil and gas industry includes:

- Integrated strategic site security suites that can be tailored to customer needs including sensors such as radar, day/night electro-optic systems, diver detection sonars, fences and physical barriers, cameras, spot lights, loud hailing devices, entry control, light weapons including remote controlled machine guns, intercept boats, etc. all integrated to a central command and control system.
- Individual sub-systems for site security and support such as:
  - Long-range electro-optic systems;
  - Mini-unmanned aircraft systems (UAS) including electric UAS with day/night optical surveillance capability capable of landing in water;
  - Remote controlled weapon systems.
- Unmanned Surface Vessels (USVs) for security and support for underwater survey and security applications.
- Cyber defense systems and capabilities.
- Comprehensive high performance communication solutions, including radios, systems, and solutions, for integrating a wide range of diverse communication means used by multiple static and dynamic users.

### AREAS OF EXPERTISE

**Safety & Security:**

Industrial Cyber Security, Integrated Solutions, On Land/at Sea Perimeter Protection, Unmanned Aerial Systems, Unmanned Maritime Systems.



## ELINISTECH

### Elinistech

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Unique design house for tailor-made industrial IoT solutions for endpoint devices with unparalleled connectivity range at low-cost and low-energy.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Elinistech is a design house dedicated to innovating and creating new methods of utilizing IoT platforms in a way that is customized to the customer's needs. We pioneered a way to extend Bluetooth Smart's range up to 200 meters and invented a proprietary power-optimized, long-range wireless mesh network that consumes several times less power than traditional networks. This gives customers the ability to choose their long-distance capability, whether its 3 kilometers or 10 kilometers. We can take this capacity and infuse it with our customers' IoT platforms and engineer them to their desired specifications via customized sensors. We ensure that the technologies we design will be able to be manufactured efficiently with low production costs.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

Our sensors can be made to handle a variety of variables such as: detect toxic gases, track and measure volume in FPSOs, measure environmental or body temperature, pinpoint employees on an oilrig down to the room location, perceive movement, record vibrations, monitor heart rates, and more. These are technological applications that can be implemented on an industrial scale with connectivity secured over unrivalled long-range distances. The sensors are designed to operate on a low power consumption rate that enables endpoint devices to have more battery life. We license all our designs to customers.

### AREAS OF EXPERTISE

**Monitoring & Control:** Industrial Internet of Things.



## Elta Systems

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[http://www.iai.co.il/17887-en/Groups\\_ELTA.aspx](http://www.iai.co.il/17887-en/Groups_ELTA.aspx)

### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

O&G infrastructure protection including land, coastal, and offshore sites, using radars, optical, cyber, and command and control solutions.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

ELTA's proven expertise in the oil and gas sector centers around providing complete solutions for securing critical oil and gas infrastructure. ELTA's systems integrate a wide variety of sensors and platforms including sensors such as radars, signal-intelligence sensors, day-night cameras, underground and underwater sensors, optical fibers, leak detection sensors with platforms such as aircraft, UAVs, fixed and mobile observation platforms, and cyber protection solutions. All our systems are based on a state-of-the-art command center.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

ELTA specializes in the adaptation of its advanced aerospace and defense technologies to the oil and gas sector.

Our systems are designed to protect oil and gas infrastructure from a variety of security and environmental threats including: intrusions, leaks, thefts, and vandalism detection.

ELTA provides a total solution based on a state-of-the-art command center which utilizes advanced signal processing to provide a complete situational picture. ELTA's systems can also be integrated with existing SCADA systems.

Our systems are based on multi-mission information gathering, using platforms such as aircrafts, UAVs, aerostat systems, and ground vehicles with sensors such as radars, electro-optical cameras, multi-spectral and hyper-spectral imagers, as well as chemical sensors.

On the ground, our systems utilize sensors such as ground radars and unattended ground sensors as well as distributed fiber sensors, day/night cameras, and fence sensors as appropriate.

### AREAS OF EXPERTISE

#### Safety & Security:

Industrial Cyber Security, Integrated Solutions, On Land/at Sea Perimeter Protection, Unmanned Aerial Systems, Video Surveillance Technologies and Solutions.



## Eltav Wireless Monitoring

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Industrial wireless valve monitoring with diagnostic capabilities for any type of valve or actuator.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Eltav's wireless valve monitoring provides real-time position indication (analog value, 0% to 100%) for valves installed in the process plant, ensuring precise monitoring and full integration to the process line control (interlocks, etc.), reducing failure and exposure to human errors while increasing safety and yield. Eltav's embedded diagnostic capability provides intelligent predictive maintenance based on the dynamic signature of the actuated valve, allowing prevention of valve failure by detecting uncompleted movement, air pressure problems, sticky valves, defective o-rings, and more.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

We offer the best solution for wireless valve monitoring on the market. Based on 2.4GHz radio frequency and the 802.15.4 family of protocols, the system delivers unmatched response time, has the lowest power consumption, and conveniently the smallest physical size. All wireless units use long-lasting batteries that last more than 5 years and are configured in a mesh topology, ensuring full redundancy and self-healing.

Amongst advantages:

- Support for all valves and actuators (quarter-turn, multi-turn, gate, any size or brand).
- Cost reduction by 75% (no need for: wires, cable trays, cabinets, I/Os, etc.)
- Additional wireless monitoring for: pressure, temperature and any non-indicative switch.
- Easily integrated into the plant's control system.

The sensors are suitable for use in explosive atmospheres (such as vapor recovery units, pigging systems, tank farms, skids, etc.) Examples of projects include: Shell (energy and petrochemical), Vopak (tank farm), Paz Refinery (energy and petrochemical), Invista (chemical).

### AREAS OF EXPERTISE

**Monitoring & Control:** Instrumentation and Devices.

**Emefcy****Contact Person:** Wilf, Ilan**Position:** VP Sales**Email:** ilan@emefcy.com**Phone:** +972-4-6277555**Fax:** +972-4-6277556**Address:** 7 HaEshel St, Caesarea 30889<http://www.emefcy.com>**VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY**

**Biological treatment to remove organic contamination from low-strength wastewater, such as produced water.**

**COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)**

Emefcy is a public company (ASX: EMC) which has developed the first commercial Membrane Aerated Bio-Reactor (MABR). The MABR is a modular, easy-to-operate, robust, and easy-to-implement solution. The Emefcy MABR is a modular decentralized wastewater treatment process, using 90% less energy than conventional technologies; it is a simple, low cost, modular and scalable solution for small wastewater treatment plants. The Emefcy MABR is based on spirally wound respiring membranes which provide oxygen to the process and support the growth of a nitrifying biofilm. Through integrated simultaneous nitrification and de-nitrification, it produces high quality effluent with less operational attention than any similarly performing process.

**PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DISCOVERY)**

Emefcy's MABR can be deployed in offshore or onshore production facilities in low-strength wastewater scenarios, such as produced water. It can also treat wastewater from downstream processes, such as refineries or petrochemical plants. Avoiding bubble aeration significantly eliminates the discharge of VOCs to the environment, thus saving the need for costly off-gas treatment.

**AREAS OF EXPERTISE**

**Water & Environment:** Biological Water Treatment.





## Emza Visual Sense

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Emza Visual Sense develops and manufactures field-proven, high-performance visual sensors for outdoor perimeter protection and safety.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Emza is a leader in visual sensors, providing actionable, timely information and coupling top-end performance with cost-effective installation and operation. The Emza WiseEye® is a revolutionary, tiny outdoor perimeter protection system. Simple to install and operate, yet with cutting edge performance, the WiseEye® makes video security effective, affordable, and available everywhere. Thousands of WiseEye® devices operate around the world in harsh weather conditions, helping to secure energy plants, industrial plants, and more.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Emza's field-proven, high-performance visual sensors meet the needs of outdoor perimeter protection and safety in oil rigs, oil wells, solar farms, gas pipes, and other extreme locations and facilities.

Emza's WiseEye® family of products' main advantages are:

- True commercial-quality performance - one false alarm per sensor per week.
- Cost efficiency - reduced installation and operation costs by 5-10x compared to competition.
- Simple and friendly installation and configuration - no special expertise is required.
- Fully integrated, autonomous devices.
- Very low power consumption.
- Very low bandwidth requirement - sends out information/video alerts only.

### AREAS OF EXPERTISE

**Safety & Security:** On Land/at Sea Perimeter Protection.



## Environmental Systems & Treatment

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

With EST, waste management becomes part of the manufacturing process through an elegant, efficient, and low-cost system.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

EST Ltd. is a clean-tech company that has developed a unique organic waste treatment solution which is breaking new ground in the field of environment technologies. This technology is comprised of treatment systems for both gaseous waste and chemical waste. The systems are connected to the production line and treat the original waste as it formed. Our solutions have already logged thousands of hours of operation in various locations in Israel and Europe complying with the most stringent international standards.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

EST's systems treat organic waste as a gas, liquid, or slurry, which is formed as a residue during the manufacturing processes in a chemical plant, pharmaceutical plant, refinery, or any other site that produces chemical, toxic, and/or hazardous waste.

Our products include:

- Gas Waste Treatment System (G.W.T.S.): designed for treating organic waste in the form of gas (upper stream) on-line, without any need to dilute the original waste.
- Chemical Waste Treatment System (C.W.T.S.): designed for treating organic waste in the form of liquid and slurry (lower stream) on-line, without any need to dilute the original waste.

Both products are already operational in various locations. The systems have generated positive results, including in efficacy tests conducted by independent laboratories according to the highest international standards.

### AREAS OF EXPERTISE

**Water & Environment:** Hazardous Waste Treatment, ZLD Solutions.



## ESC BAZ



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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

With more than 1000 installations, ESC BAZ has positioned itself as a leading provider of wired, wireless, and mobile observation systems.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

For nearly two decades, ESC BAZ has been focusing on several core technologies, all related to Remote Control Video Observation and Surveillance.

These systems are being used in a wide range of applications and in strategic sites, such as oil and gas facilities, airports, military installations, and more. The company develops innovative products and solutions according to customer needs, including innovative SWIR cameras, thermal cameras, day cameras, pan and tilt, video processing, smart electronics, and more.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

The following ESC BAZ systems meet the conditions and the needs of the oil and gas industry:

- Giraffe long-range surveillance system – for 10-30 km applications including cooled thermal imager, CCD/SWIR imager, tracker, LRF, compass, and more.
- AVIV short-medium surveillance system – for 2-7 km applications including uncooled thermal imager, CCD imager, optional illuminator, LRF, and compass.
- TOM – patrol vehicles require a unique observation solution, which allows the driver to remain fully aware of the surroundings under any condition, while performing surveillance and reconnaissance activities. ESC BAZ develops and manufactures vehicle-mounted surveillance systems.
- MAX – multi-functional hand-held command and control device, integrating most industry leading remote surveillance systems.

### AREAS OF EXPERTISE

**Safety & Security:** Video Surveillance Technologies and Solutions.



## FAST Laser Group

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

**FAST Laser Group is active in the field of fiber sensing technology. We prevent leaks in pipelines through the monitoring, detection, and location of ground movement.**

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE )

Since 2007, FAST Laser has been successfully collaborating with the faculty of Civil and Environmental Engineering at the Technion Institute to develop unique hardware and software algorithms, based on distributed fiber sensing technology, to measure both the strain and the temperature along a standard fiber. Such technology can provide full turnkey solutions to the oil and gas industry by preventing leaks in pipelines through the detection and location of ground movement and third-party interference. This technology is able to detect and locate leaks in onshore and offshore pipelines, ensure flow in subsea flowlines, monitor the condition and performance of heat-traced pipelines, monitor fatigue and the operating conditions of subsea umbilicals, risers, and flowlines, and detect intrusions.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

Some of our products for the oil and gas industry include:

- Brillouin – Strain and Temperature sensing (DTSS).
- Rayleigh – Acoustical sensing (DAS).
- Raman – Temperature sensing (DTS).
- FBG – Fiber Bragg Grating.

### AREAS OF EXPERTISE

**Monitoring & Control:** Fiber-based Sensing Solutions.



## Fieldbit

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Fieldbit develops a software platform that utilizes smart glasses and augmented reality technology for resolving on-site technical issues.

### COMPANY PROFILE (Company Stage – General: R&D)

Fieldbit develops and markets an innovative enterprise-grade software solution that utilizes smart glasses and augmented reality technology with cloud-based computing to provide field personnel with interactive tools for resolving on-site technical issues. Powered by Fieldbit's Over-the-Shoulder (OTS) coaching module, the solution enables on-line, bi-directional collaboration between field technicians and experts, providing on-site personnel with innovative tools to reduce downtime, improve productivity, ensure compliance, and enhance safety.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

By wearing smart glasses powered by Fieldbit's Over-the-Shoulder (OTS) coaching and collaboration system, the technician in the field can start bi-directional visual communication with an expert. The expert can actually see what the remote technician is doing and send him augmented reality annotations, instructions, and diagrams to help him to resolve technical problems in the field. Fieldbit's solution helps solve problems quickly and avoids sending experts to remote sites.

Fieldbit's OTS system is an out-of-the-box solution provided using the "Software as a Service" business model. The deployment does not require any IT infrastructural investments. Currently the Fieldbit OTS system is available on EPSON Moverio BT 200 smart glasses and Android phones.

### AREAS OF EXPERTISE

**IT & Communications:** Maintenance Visualization Systems.



## Filtersafe

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Advanced automatic screen filtration, proven, durable and designed down to 10 micron, thanks to our superior patented cleaning technologies.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

Filtersafe® specializes in the development and supply of intelligent automatic screen filters a variety of industries such as oil and gas, power and energy, desalination, high-end agricultural, ballast water, and more. With high performance fine filtration solutions for RO, membrane, disinfection, and ultra-fine filter treatment protection, Filtersafe® brings unrivalled economy, value and environmental responsibility to seawater, freshwater, and brackish water filtration.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

Filtersafe provides robust, proven, and highly effective filtration down to 10 microns which can be applied to both water and water/oil separation processes. The technology is suitable for produced/flowback water recycling and can be used before or after media filtration. Our products are especially well suited to removing organic matter and high levels of TSS as a pre-filtration stage to MF/UF.

### AREAS OF EXPERTISE

**Water & Environment:** Water Filtration Systems.



## G.A.L. Water Technologies

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<http://www.gal-water.com>

### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

**GALMOBILE™ - Mobile portable water treatment system for sustained emergency response and recovery.**

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

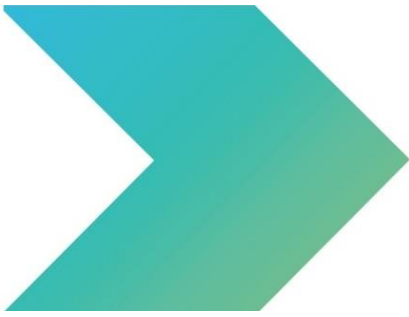
G.A.L. Water Technologies Ltd. is backed by twenty-five years of experience in supplying water treatment solutions for industry, agriculture, and drinking water. We are pleased to introduce you to our latest innovation, GALMOBILE™ – the world's first water purification vehicle. This system combines all elements required to produce drinking water from any possible contaminated water source.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

GALMOBILE™ is a mobile water purification system, combining all elements required to provide drinking water anywhere, under any conditions. The system connects to any possible water source (rivers, lakes, oceans, brackish water, wells, highly turbid water, etc.) and produces high-quality drinking water, per W.H.O. standards. GALMOBILE has a variety of uses: emergency situations, remote communities, and operations in remote locations. The system is completely self-sufficient with a high level of transferability, and easily integrated into the electrical grid and water supply system. It is extremely lightweight; its small dimensions make it easy to store, carry and ship.

### AREAS OF EXPERTISE

**Water & Environment:** UV Disinfection, Water Filtration Systems.



## Gabi Shoef

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Enhancing the quality of pipes, stations, and other oil and gas installations by quality inspection of welding and pipes through non-destructive testing techniques.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Gabi Shoef has been the leading company for Non-Destructive Testing (NDT) and Structural Health Monitoring (SHM) in Israel since 1971. The company has rendered services for the metal, chemical, defense, aviation, buildings and infrastructure, environmental, and other industries.

The company employs over 100 qualified and experienced NDT engineers and technicians and has three laboratories across Israel.

We are certified by The Ministry of Economy, the National Authority for Laboratories Accreditation, Nadcap for aviation, and others.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Our services include: radiography, crawler RT, ultrasound including PAUT, magnetic inspection, penetrant inspection, Eddy Current inspection, visual inspection, Level III services, above-ground storage pipe inspection API 653, VOC leak detection, AST leak detection, UST leak detection, RVI inspection, gasoline vapor recovery, welding inspection, tank and piping inspection, and PMI services via XRF.

We have a variety of different types of equipment used for inspection: a vast isotope variety (Co-60, Se-75, Ir-192), three complete crawler systems for up to 60" piping diameters, X-Ray tubes ranging from soft radiation mini-focus machines to hard radiation up to 320 kV, crawler tubes etc., a vast array of hand held ultrasonic equipment (B,C,P scan) and thickness measurement devices for composite materials, recordable phased array ultrasonic equipment, and much more.

### AREAS OF EXPERTISE

**Consulting & Services:** Inspection and Testing.





## Gal Yam Marine Works

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

**Marine and subsea-works contractors.**

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Gal Yam Marine Works owns a variety of different types of marine equipment such as: research vessels, large tugs, open sea tugs, service launches, barges of various sizes, floating cranes, welding machines, air compressors, generators, and a range of submerged and diaphragm pumps.

The company is capable of employing pollution prevention and treatment equipment like oil skimmers, floating containment booms, oil blocks, oil absorbing felts, etc.

Gal Yam operates ROVs and has a team of diving specialists utilizing the most modern and sophisticated equipment available.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

We offer the following marine services: towing vessels, including international towage, transport of goods on sea barges, maintenance of marine mooring systems, mooring of vessels (including pilotage services), lifting cargo at sea of up to 100 tons by means of floating cranes, and maintenance of submarine communication cable lines.

We also offer: marine research and experiments services, including marine research ships, seabed surveys, etc.

We offer ROV and diving services for underwater surveys, pipe lines, constructions, NDT, hydraulic power tools, underwater detonations, specialized marine sapper techniques, and underwater works and maintenance services.

We also have expertise in pollution treatment and prevention through the employment of oil skimmers, floating containment booms, oil blocks, and oil absorbing felts. (IMO level 2)

### AREAS OF EXPERTISE

**Engineering & Construction:** Marine Works and Services.



## Geomage

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Geomage has developed a unique imaging software, the g-Platform®, based on its unique and patented MultiFocusing technology.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Geomage is a service driven software company with an expertise and passion for R&D innovations, located in Israel, Houston, and Calgary. We are committed to new thinking and approaches that provide upscale superior seismic solutions to the oil and gas industry all over the globe. Our unique patented technology helps us address the latest imaging challenges regardless of the data quality and geology.

Through a team of highly-skilled scientists, geophysicists, and software engineers, Geomage develops pioneering technologies which help resolve the most complex seismic imaging challenges.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Geomage's patented and proprietary technologies provide our clients with the best quality software and seismic imaging services.

Our services include:

- **Geomage g-Platform® software:**
  - Based on advanced algorithms, fast operation on any operating system (including Linux and Windows), superb project management tools, advance user interface and optimizes project cycle time;
  - Support a complete utilization of parallel processing capabilities of GPU and multi-core CPU clusters which allows a reduction in processing times.
- **Seismic Imaging Services**
  - Full time imaging processing starting from raw gathers through PSTM;
  - MultiFocusing Imaging;
  - Diffraction Imaging.

### AREAS OF EXPERTISE

**Consulting & Services:** Seismic Imaging.



## Geophysical Institute of Israel

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<http://www.gii.co.il>

### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Seismic acquisition, processing, and interpretation along with seismic R&D, full potential field exploration, survey design, and consulting.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

The GII provides geophysical exploration surveys of the highest quality at competitive prices. Our specialty is 2D and 3D seismic data acquisition surveys in challenging environments around the globe. Led by the top academic and technical professionals, we leverage our state-of-the-art equipment, software, and computing power to bring best-in-class results to our clients. This, combined with our drive to 'go the extra mile', has resulted in over 28 full-scale global projects and hundreds more in and around Israel. In 2017 we will be celebrating 60 years of successful operations in the oilfield industry.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Guided by our client-centric focus, we ensure dynamic solutions and quick responses to our client's needs. We are able to successfully address unanticipated situations with proven flexibility and on-site solutions. Our services include:

- Deep 2D and 3D seismic reflection surveys for oil and gas exploration in land and transition zone environments using vibrator fleets and explosives.
- High-resolution onshore seismic reflection/refraction/diffraction surveys for gas, water resource development, engineering, mineral exploration, and defense.
- Processing of land and marine seismic data in batch or interactive modes.
- Design and management of seismic surveys and exploration processes.
- Downhole seismic velocity surveys.
- Integrated magnetic, gravity, electric and ground penetrating radar.

The GII is certified to the highest health, safety and environmental standards. At every level of our organization we act to monitor and preserve life, ensure a sustainable environment and safeguard the well-being of local communities.

### AREAS OF EXPERTISE

**Consulting & Services:** Geological/Geophysical.



## Geo-prospect

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Geo-prospect is a leading consulting firm in the areas of geology, environment, and infrastructure planning.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Geo-prospect was founded in 1971 by Noah Lasman and Moshe Braun. Since then the company has been active in geological, geotechnical, and environmental surveys in Israel and abroad. Geo-prospect carries out projects for the leading companies in Israel in the fields of raw materials production for the construction industry and for the chemical industry, as well as for the minerals, metals, and hydrocarbons industries. It also provides its services to governmental institutions. Geo-prospect specializes in environmental, engineering, geological, hydrogeological, and geotechnical projects and employs more than thirty full-time professionals.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Geo-prospect carries out geological surveys to identify and characterize hydrocarbons in Israel and around the world. Selected projects have included:

- A survey in China's oil sands from 2005 to 2010, which included three drilling campaigns, totaling 160 drill core samples, and accompanying magnetic and electromagnetic surveys over a total site area of 270 square kilometers. The project's data processing included the creation of three-dimensional models of the deposit, a reserve estimation model for examining the economic parameters of the deposit (eg. tv:bip), investment analysis and examination of the pelvic oil flow model, and geochemical characterization of oil sands.
- A geological survey to characterize the oil shale site at Rotem in Israel (an area of 1.5 square kilometers) was carried out in 2011 and included the drilling campaign, three-dimensional modeling, and testing to determine the geochemistry of the target layer.

### AREAS OF EXPERTISE

**Consulting & Services:** Engineering, Environmental, Geological/Geophysical.



## Gevasol Group

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<http://www.gevasol.com>

### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Gevasol specializes in the integration of valve and fluid control components for liquid handling applications in the O&G industry.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

Gevasol makes control valve packages for turning fluid flow on and off. Our work is typically in the low-flow area for monitoring and control. We work on valve manifolds for process controllers and analytical instruments. Gevasol makes solenoid valves, sensors, and fluid power actuators. Our specialty is in the integration and packaging of valves and sensors into control assemblies.

We work with other OEM companies to design, develop, and produce control valve manifolds in Israel.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

We are familiar with the global requirements associated with the oil and gas industry such as ATEX and NACE. Our products are designed to meet these requirements. Gevasol is also involved in developing hydraulic fluid power assemblies used throughout the oil and gas industry.

### AREAS OF EXPERTISE

**Engineering & Construction:** Valves and Actuators.



Global Environmental Solutions Ltd.

## Global Environmental Solutions

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<http://www.ges.co.il>

### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

GES designs, manufactures, and supplies systems for the delivery of process water for a wide variety of industries.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

GES is an international leader in the design and construction of innovative seawater desalination and industrial and municipal water and wastewater treatment plants, operating worldwide. With its vast experience of over 25 years, GES provides a full range of services including process engineering, construction, and operation services to municipal and industrial customers around the world. Based on its accumulated know-how and its team of over 200 leading professional employees, GES has provided to date hundreds of small to mega-size, customer-tailored, cost-effective, reliable solutions.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

GES' experience in the oil and gas industry so far has been mainly in the downstream industry, including refineries, power stations, and petro-chemicals. It also has some experience in the upstream industry in North America.

GES provides unique, tailor-designed solutions utilizing existing technologies to treat extracted water for reuse in the production process as well as to minimize the waste stream prior to reinjection/evaporation.

Our solutions are based on extensive experience dealing with challenging industrial streams through innovative designs enabling us to work with common technologies in harsh conditions overcoming technological equipment barriers.

### AREAS OF EXPERTISE

**Water & Environment:** Turnkey Solutions.



## Golan Plastic Products

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<http://www.pexgol.com>

### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

We provide reliable, proven piping systems for the crude oil, gas, mineral, chemical, and metal processing industries.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

Golan Plastic Products (1964) is a world leader in the manufacturing of industrial-grade, cross-linked PE (PEX) piping systems under the brand: PEXGOL.

PEXGOL is a unique, monolayer, polymeric piping solution. Used in unstable, subzero, and high-temperature (up to 110°C) environments, with an inherent resistance to creep, slow crack growth, corrosion, and abrasion, PEXGOL is ideal for demanding working environments.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

PEXGOL pipes are resistant to corrosion and can operate at temperatures ranging from -50°C to 110°C. They are extremely reliable with full exposure to the elements. They are flexible and can be delivered in long segments to reduce installation time and cost.

### AREAS OF EXPERTISE

**Engineering & Construction:** Piping and Tubulars.



### Gordon Consulting Engineers

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<http://www.gordonengineers.com>

#### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Your security is assured with our 35 years of experience as an O&G industry security systems consultant and designer.

#### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Gordon Consulting Engineers Ltd. offers a wide range of consulting and engineering services in Homeland Security, including: threat analysis, risk assessments, site surveys, development of security concepts and operational plans, detailed design of security solutions, development of technical specifications, preparation of technical RFP, project management, on-site supervision, and the conducting of training programs for security personnel.

Gordon's solutions for the protection of oil and gas facilities include: enhanced deterrence, early detection, alarm verification, delay measures, response measures, damage mitigation and hardening requirements, cyber security, etc.

#### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Gordon has accumulated extensive experience in the development and implementation of pioneering security concepts and solutions protecting the oil and gas industry.

Gordon's security solutions are designed to provide optimal security coverage for: refineries, terminals, pipe lines, crude loading platforms, flow stations, flow station estuaries, sea well estuaries, manifolds, valves, gas plants, nuclear power stations, electrical power stations, transformation substations, very high voltage power lines (300 kV), storage areas, valuable equipment, headquarters, offices, personnel, and more.

#### AREAS OF EXPERTISE

**Safety & Security:** Consultancy.





## H.N.A. (Noise & Vibration Control)

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<http://www.hna.co.il>

### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Providing design and production solutions for noise problems including: canopies for machines, quiet rooms, and silenced ventilation systems.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

H.N.A. (Noise & Vibration Control) Ltd. has been engaged, since its establishment in 1977, in the development and implementation of acoustic and vibration solutions.

H.N.A. offers an extensive product range for acoustic solutions, including canopies for machines, quiet rooms, and silenced ventilation systems.

We bring value to our clients by ensuring quality and providing service with uncompromising professionalism. The experience accumulated by H.N.A., both in planning and in problem solving, as well as in production of complicated systems, allows it to cope successfully with any project of any size.

The company has engineering design capacity (acoustics, mechanics, electrical, and control) as well as manufacturing and installation capacity.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

The oil and gas industry produces a large amount of noise from multiple sources. Every power station, generation unit, or pumping station is required to comply with noise level standards.

Every facility of this kind requires the use of many of our products: silencers, enclosures, acoustic barriers, etc.

Over the years, H.N.A. has completed many projects in the oil and gas sector. Our solutions for this sector include silencers and canopies.

Silencers provide a technical solution for handling airborne noise. Noise reduction is managed by tunneling air between structures with noise absorption capacity. These bodies are usually made of galvanized metal skeletons and internal mineral wool protected by perforated sheets.

Canopies provide a solution to the problems caused by noise originating from sources such as a generator, pump, or machine. H.N.A. offers a number of professional acoustic solutions: Bell Canopy, Standard Generator Canopy, and Acoustic Room.

### AREAS OF EXPERTISE

**Engineering & Construction:** Noise and Vibration Solutions.



## Habonim Industrial Valves & Actuators

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<http://www.habonim.com>

### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Habonim is an industry-leading provider of valves and pneumatic actuators to O&G markets.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

Habonim has earned an international reputation for developing and manufacturing high quality ball valves, pneumatic actuators, and ancillary equipment. Habonim's expertise in valve design means that the company can supply not only standard valves and actuators, but also complex and diverse custom-designed package solutions for industries such as: LNG, petrochemicals, oil and gas, chemicals, and pharmaceuticals.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Habonim's unique offerings to the oil and gas industry include:

- Trunnion mounted valves up to 16" DN400 ANSI Class 2500.
- Floating Ball valves up to 8" DN200 ANSI Class 2500.
- Materials: carbon steel, stainless steel, Alloy 22, Inconel 625, duplex, super duplex, 254SMO, titanium and more.
- Metal-seated valves for temperatures up to 650°C.
- Cryogenic valves for the LNG market down to -269°C.
- Control valves based on quarter turn technology.
- HermetiX™ unique stem seal certified to ISO 15848-1, minimizes fugitive emission to the atmosphere.
- Company and products certified to API6D (monogram #6D1278).
- CE PED, ATEX, SIL, DNV, and more.
- Special solutions tailor-made for the oil and gas industry, including safety shut off device, multi-valves ensemble and more, designed by a large skilled engineering team.
- Line of unique 4-pistons pneumatic compact actuators, save volume, weight, and air consumption.

### AREAS OF EXPERTISE

**Engineering & Construction:** Valves and Actuators.



## Hakohav Valves

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Hakohav Valves specializes in long lasting centric (fully vulcanized) butterfly valves.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

With over 50 years of experience, Hakohav Valves has earned a worldwide reputation for its long lasting valves.

Focusing on low-pressure rubber sealed valves, Hakohav Valves specializes in three major product lines:

- Centric (fully vulcanized) butterfly valves - available up to 64" (1600 mm).
- Resilient seated gate valves - available up to 24" (600 mm).
- Diaphragm valves - available up to 12" (300 mm).

Since 1998, Hakohav Valves has been part of Gaon group one of Israel's most prestigious and admired holding companies.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Hakohav Valves offers its full range of product lines to the oil and gas industry, including:

- Butterfly valves.
- Gate valves.
- Diaphragm valves.
- Penstocks.
- Hydraulic valves.
- Fire-fighting valves.
- Check valves.
- Strainers.
- Water Meters.

### AREAS OF EXPERTISE

**Engineering & Construction:** Valves and Actuators.



## HAM-LET



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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

HAM-LET's core products – instrumentation valves and fittings – play a major role in ensuring customers' applications run safely, trouble-free and efficiently.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

HAM-LET Group, a well-established international leader, specializes in the design, development, production, marketing and sales of high quality instrumentation valves, fittings, measurement devices and accessories for process and high purity industries worldwide. Founded in 1950, HAM-LET serves its many customers worldwide through its branch offices in North and South America, Europe, Asia, Africa and Australia, as well as strong distribution network worldwide. HAM-LET offers a wide range of standard and customized instrumentation solutions and products, available in a variety of materials for high pressure, temperature and vacuum applications, serving high purity equipment, process control and fluid delivery systems for instrumentation. HAM-LET offers a combination of production stability, state-of-the-art technology of product integration and assembly, top quality and unrivalled customer service, all backed up by in-house R&D activities.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

HAM-LET's offerings for the oil and gas industry include:

- Process fittings – compression fittings, pipe fittings, 37° flare fittings, high-purity fittings.
- High-purity fittings (HTC).
- Flanges.
- Process valves – needle, toggle and metering valves, ball valves, check, relief and excess valves, quick connectors.
- Ultra clean valves (UCV).
- Sample cylinders.
- Manifolds (1 to 5 way).
- Filters, pressure gauges, flexible hoses, high-pressure valves and fittings.
- Manifolds & instrument enclosures.
- Ultra-high purity gas delivery solutions – modular skid, gas handling system, TIG welding.

### AREAS OF EXPERTISE

**Monitoring & Control:** Instrumentation and Devices.



## Hanita Coatings

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2288500

<http://www.hanitacoatings.com>

### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Hanita's engineered films and laminates enhance the energy saving, security and durability of products and environments.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

Since 1983, Hanita Coatings has specialized in the development and manufacturing of engineered polymeric films for security, energy-efficiency and print applications.

The company is a market leader in insulation laminates and a key player in the field of security and solar control window films. Hanita offers an ultra-high barrier laminate with extremely low permeation levels of different liquids and gasses such as Helium, CO<sub>2</sub>, Argon, and Oxygen.

Headquartered in Kibbutz Hanita, Hanita Coatings maintains production facilities in Israel and sales and distribution offices around the world. Hanita Coatings is privately held and owned by Kibbutz Hanita and Tene Investments.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Hanita's industrial films and laminates are used by the oil and gas industry to improve insulation performance, add physical protection, conductivity, deliver high barrier to oxygen and moisture, or to enhance surfaces. Hanita's products can be found in LNG vessels, insulating pipelines, providing shatter protection to windows in explosive surroundings, or providing EMI shielding.

Hanita has a rich experience in implementing blast resistant glazing in the oil and gas industry.

### AREAS OF EXPERTISE

**Engineering & Construction:** Construction Technology, Materials and Coatings.



## HARBO Technologies

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

**HARBO has developed the first offshore oil spill immediate containment system, which will help prevent the disastrous consequences of marine oil spills.**

### COMPANY PROFILE (Company Stage – General: SEED)

HARBO Technologies is revolutionizing the containment and treatment of marine oil spills and minimizing the damage they cause. Traditional booms (floating barriers) are bulky and heavy and require large, trained crews to deploy. Because they cannot be stored at the point of failure, after a spill occurs, the response is often delayed for many hours or even days. In the meantime, the spill travels between 2-25 miles per day and splits into many small oil slicks. When response teams finally arrive, it's too late. HARBO's T-Fence™ system will change this paradigm. The Immediate Containment System will be preinstalled at standby positions onboard all potential spill sources like ships, rigs, etc.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

HARBO's technology is patent-pending and was successfully tested at OHMSETT. HARBO's solution is composed of a compact vessel the size of a life boat that will simultaneously produce and deploy an innovative boom for primary containment. The T-Fence™ boom weighs less than 1/10th of a traditional boom and requires a fraction of the storage space. The system starts operating within minutes of spill detection and deploys 2,000 yards of boom in 30 minutes. The two-person crew can be trained in a day. HARBO provides an inexpensive and cost-effective solution.

HARBO's advantages include minimizing environmental damage, avoiding large cleanup expenses, enhancing all existing oil spill treatment methods (skimming, dispersing, in-situ burning), and preventing a financial and PR nightmare.

HARBO Technologies will become a game changer by offering a radical solution:

- Pre-installation at every potential point of failure.
- Significantly enhanced oil spill treatment operations.
- Improved oil spill recovery rates.

HARBO enables installation at the point of failure creating a huge market potential for 50,000+ systems, representing a multi-billion dollar opportunity.

### AREAS OF EXPERTISE

**Water & Environment:** Oil Spill Control and Clean Up.



## The Helmsley Charitable Trust Mediterranean Sea Research Center

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

The strategic research and services facility for deep sea vehicles (including AUV, ROV) and technologies in Israel and the SE Mediterranean.

### COMPANY PROFILE (Company Stage – General: R&D)

The Helmsley Center and associated Department of Marine Technologies focuses on:

- Developing innovative marine (and particularly deep sea) technologies: sensors, imaging, signal processing, autonomy and robotics, navigation, and propulsion.
- Providing continental shelf and deep-sea surveying and monitoring capabilities applicable for full depth range commercial site surveying, infrastructure supervision, and environmental monitoring and mitigation.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEVELOPMENT)

The Helmsley Center's infrastructure includes:

- A state-of-the-art coastal facility in IOLR (Israel Oceanographic and Limnological Research) for development, maintenance, and operations of deep-sea research technologies.
- A shallow-water coastal monitoring station to ensure long-term environmental monitoring.
- Deep (3000 m) rated autonomous and remotely operated underwater research vehicles (AUV, ROV and gliders), underwater imaging, acoustic, geophysical and marine engineering laboratories, marine engineering workshops, coastal water monitoring systems and more.
- The Hatter Marine Technologies department, including faculty members, engineers, technical staff, and students.

The facilities and resources will be available for commercial operations.

### AREAS OF EXPERTISE

**Consulting & Services:** Environmental, Geological/Geophysical, Lab/R&D, Seismic Imaging.



## Hoffmann & Hoffmann

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

**Control & Monitoring Devices:** DripMaster for vertical turbine pump oil lubrication control and SandSense for sand existence monitoring.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Hoffmann & Hoffmann is a veteran R&D company specializing in the development of control and monitoring instrumentation for the water market. Hoffmann & Hoffmann has patented products that are implemented in more than 900 sites and utilized by major water utilities worldwide.

DripMaster is an oil lubrication control and monitoring device for Vertical Turbine Pumps (VTPs), which reduces oil consumption and ground water contamination and prolongs the life span of the pump.

SandSense is an online, real-time sand existence monitoring system for water production.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

DripMaster – in cases where the water used for oil and gas production is drilled from ground water wells by VTPs our DripMaster device ensures proper lubrication by stabilizing the oil drip rate. The DripMaster also reports any lubrication errors and shuts down the pump in case of lubrication errors to protect it from costly damages that can arise from improper lubrication. By ensuring proper lubrication, the DripMaster reduces oil consumption and ground water contamination and prolongs the life span of the pump.

SandSense – online active sand existence monitoring system that, with different accessories, is able to minimize sand appearance during water production, provide online, continuous monitoring of sand levels during water production, and enable long term analysis of sand appearance and behavior. The device is available in portable and stationary modes.

### AREAS OF EXPERTISE

**Monitoring & Control:** Instrumentation and Devices.





## Hop Engineering LTD

manufacturing and marketing of  
water improver devices

### Hop Engineering

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#### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Hop Engineering manufactures the PTH water improver to prevent damages caused by scale and rust in water systems and in oil wells.

#### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

The PTH can be installed in a variety of water treatment systems to control scale and rust. Our clients come from industrial, domestic, and agricultural sectors (e.g. Coca Cola, Samsung, oil and gas companies, mining factories, and agricultural companies.)

The PTH technology is unique. The device is made of a stainless-steel cylinder with an inner core made of an alloy of noble and semi-noble metals. When water flows through the PTH, weak electric fields and hydrodynamic forces are produced. These forces prevent the adhesion and cohesion of the waterborne mineral particles (mainly carbonic salts, calcium, and magnesium).

Electric and hydrodynamic forces separate the particles (especially aluminum and silica) that bind mineral particles. Thus, the minerals flow in the water without precipitating and without interference.

#### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Over the past five years Hop Engineering has been supplying PTH water improvers to oil companies in order to control scale damages in the pumping and piping systems.

PTH was installed in oil production wells in Asia to protect piston pumps from damage caused by scale and deposits and to prolong production lifespan. The normal cycle of maintenance had been to remove and replace the piston pump every two weeks. After installing the PTH, the maintenance cycle has now been extended to 24 weeks! PTH also replaced chemical injection and saved considerable costs.

#### AREAS OF EXPERTISE

**Engineering & Construction:** Scale Prevention.



## IARD

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Advanced solutions for gas leak detection.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

IARD is a privately held company that offers radiometers and custom built electro-optical systems as well as research, development and measurement services.

IARD team consists of physicists and engineers with expertise in complex radiometric measurements, remote sensing, and development of models for related electro-optical phenomena.

IARD provides:

- Multi-channel fast radiometers and related products.
- Radiometric measurement services.
- Development of custom electro-optical systems.
- R&D services in electro-optics and remote-sensing.

IARD's customers include the U.S Department of Defense, large industries, and start-up companies.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEVELOPMENT)

By using optical transmission, IARD is able to measure gas presence. We have developed both a spatial leak detector for natural gas as well as a toxic gas open-path detector. Our detectors can be used in gas production, delivery, and processing facilities. Our natural gas leak detector covers an angle of up to 70 degrees and images the scene to provide an alarm as well an image indication of the leak location. The detector is a lower-cost option than existing imaging spatial detectors. It is planned for autonomous, automatic, maintenance-free operation for ten years, which further reduces the life cycle cost. IARD's detector will provide enhanced safety by covering a large area, as well as by avoiding greenhouse gas effects. IARD would like to partner with a market leader to turn its solution from an advanced prototype to a product in the market.

### AREAS OF EXPERTISE

**Monitoring & Control:** EO/IR Detectors.



## ICL Industrial Products

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

ICL Industrial Products is a leading global provider of Clear Brine Fluids used in the completion process of offshore oil and gas wells.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

Headquartered in Beer-Sheva, Israel, ICL-IP manages the world's largest bromine production supply chain. With subsidiaries, production sites and business partners throughout the world, ICL-IP manages a sales, marketing, and technical support global network dedicated to servicing its markets with the highest safety and environmental standards.

ICL-IP produces a wide range of bromine-based products, ranging from flame retardants and drilling fluids to energy storage solutions and effluent control.

ICL-IP production processes are based on over 40 years of experience, and unmatched economies of scale. ICL-IP backs its product portfolio with vast technical knowledge, providing its customers with applicative knowhow, supported by state-of-the-art laboratories.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

ICL-IP is the world's largest producer of bromine and brominated derivatives, including the clear brine fluids: calcium, sodium, and zinc/calcium bromides. Clear Brine Fluids are high-density and solid-free brines, used mainly in the completion process of offshore oil and gas wells.

Main functions include:

- Control wellbore pressure.
- Cool the bits and tools.
- Lubricate tools and pipe.
- Transport solids from the wellbore.
- Transport treatments to the production zone.
- Minimize formation and equipment damage.
- Minimize operation time.

The product is displaced after use, and can be filtered, cleaned, weighed up, and re-used.

### AREAS OF EXPERTISE

**Engineering & Construction:** Materials and Coatings.



## ICS<sup>2</sup>

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

**Big-data analytics solutions for O&G automation & control enabling process visualization & integrity assurance and early warning of operational faults & cyber threats.**

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

ICS<sup>2</sup> provides oil and gas organizations with intelligent tools for ensuring the cybersecurity and operational efficiency of their plant's processes. Our technology is used by operators and security teams in O&G plants, power plants, water infrastructure facilities and manufacturing centers. Our background is in Industrial Control Systems and we develop our technology and products with the ICS environment in mind.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

OnGuard – Industrial Cybersecurity:

- Detect cyber-attacks on operational systems.
- Mitigate the risk of hidden cyber-threats.
- Receive real-time incident notifications.
- Respond rapidly to cyber-incidents.

OpsGuard – Process Assurance:

- Track health of industrial assets & processes.
- Detect operational faults & malfunctions.
- Reduce Operational Expenditure (OPEX).
- Improve ROI of existing industrial systems.

EfficiencyGuard – Process Optimization:

- Monitor plant performance.
- Optimize operational efficiency.
- Measure Key Performance Indicators.
- Improve process performance.

### AREAS OF EXPERTISE

**Security & Safety:** Industrial Cyber Security.



to Category/Subcategory

רשות החדשנות  
Israel Innovation  
Authority



ISRAEL EXPORT INSTITUTE

## IDE Technologies



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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

**Produced water treatment: end-to-end solutions, both membrane and thermal-based treatments.**

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

IDE has over 50 years of advanced water treatment experience and over 20 years of oil and gas produced water treatment experience. We offer full end-to-end solutions from feed to Zero Liquid Discharge (ZLD) for the oil and gas industry's water needs. IDE's solutions are based on propriety designs and processes using both membrane and horizontal evaporator technologies.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

IDE delivers produced water treatment solutions for on-shore conventional and unconventional oil and gas field production that are reliable, robust, and economical.

IDE has been active globally, providing solutions to the Canadian SAGD Oil Sands market (horizontal evaporators), the Australian CSG market, the North American fracking industry, and other oil and gas markets around the world.

### AREAS OF EXPERTISE

**Water & Environment:** Turnkey Solutions, Water Separation Systems, ZLD Solutions.



## iSi

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Operational intelligence services such as: disaster management, oil spill and theft monitoring, and critical infrastructures protection.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

iSi a leading Israeli NewSpace company, with two very high-resolution satellites in orbit, 19 satellite command and control stations deployed by world leading defense and intelligence organizations, and over 35 customers worldwide.

ISI specializes in:

- Intelligence as Service Solutions.
- Operational Turn-key Services.
- Marine Awareness Services.
- Integrated Intelligence Solutions.
- Satellite Imagery Service.
- Space Based Persistent Monitoring.
- GEO-Economics.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Satellite imagery is a resource of critical importance in various aspects of the oil and gas business. Such a resource can be used for planning the infrastructure of natural gas, oil pipelines, and other natural resource installations and for monitoring such infrastructure.

We provide different types of services including:

- Oil and gas pipeline monitoring.
- Critical infrastructures protection.
- Maritime awareness services.
- Detection of oil theft and sabotage.
- Environmental control – monitoring of oil spills (on land, offshore).
- Disaster management.

### AREAS OF EXPERTISE

**Monitoring & Control:** Satellite Imagery.



## Indegy

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Indegy's industrial cyber security platform provides visibility and security for industrial control networks, ensuring operational safety and reliability.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

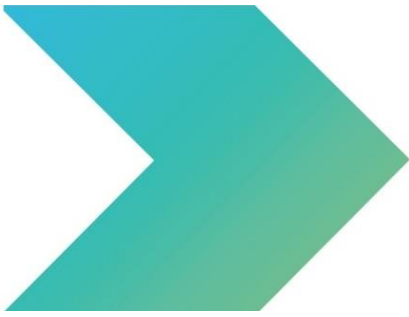
Indegy provides visibility and security for industrial control networks to ensure operational continuity and reliability. The Indegy platform delivers unique real-time visibility into the critical control-plane of Operational Technology (OT) networks to identify threats that place the safety, reliability and security of industrial automation controllers (PLCs, RTUs) at risk. By detecting logic changes to controllers that manage the lifecycle of industrial processes, Indegy provides advanced protection against cyber-attacks, insider threats and human errors.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Oil and gas operational networks are inherently distributed more than any other sector. Indegy's products connect to critical intersections in your network to help you ensure the reliability of your drilling operations, metering stations, and pipelines. Using Indegy's patent-pending technology, we monitor both the data-plane and control-plane (a record of engineering activities performed over the networks as well as directly on physical assets) to provide complete and accurate situational awareness of industrial control systems and protection against external and internal threats.

### AREAS OF EXPERTISE

**Safety & Security:** Industrial Cyber Security.



## Institute of Failure Analysis

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Laboratory and R&D services for materials selection, material properties analysis, material testing (metallurgy & polymers), failure analysis, and risk assessment.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

The Institute of Failure Analysis® (IFA) analyzes various aspects of damages and failures in engineering systems in order to determine the cause of failure and to prevent a recurrence.

IFA operates a fully-equipped materials laboratory in which applicable examinations are carried out using advanced instrumentation in order to provide analytical results.

IFA's customers are institutional organizations (such as the Civil Aviation Authority, the army, marine forces, Israel Aircraft Industries, etc.), insurance companies, industrial companies, appraisers, attorneys, and more.

IFA uses advanced databases, up-to-date literature, innovative facilities, and the most advanced equipment in order to best serve its customers.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

IFA has the ability to analyze and manage any catastrophic event related to oil, gas, or fuel. Our work includes documenting the site, detecting source damage zone/equipment, marking objects on field, conducting in-situ testing, etc.

A variety of investigations have been conducted by IFA on pipes and tubes transporting oil and gas. At the time of writing, our last significant work was analyzing a 42" fuel pipe that burst on December 3, 2014 near Eilat, Israel, a work that is being conducted for the Ministry of Environmental Protection.

### AREAS OF EXPERTISE

**Consulting & Services:** Inspection and Testing, Lab/R&D.





## Integrated Maritime Solutions

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

IMS's automated submersible marine perimeter is a rapidly deployable offshore barrier that protects against the spread of floating contaminants.

### COMPANY PROFILE (Company Stage – General: R&D)

IMS develops a barrier system providing protection for marine installations and assets against the spread of floating contaminants (e.g. oil, chemical, etc.) as well as providing a physical barrier against intrusion (e.g. terror). The system is adaptable and can be partially or fully submerged, to allow ongoing operational work or due to bad weather advisory.

The focus markets for IMS' system:

- Energy market (oil rigs, oil jetty, mono buoy, multi buoy, FPSO, ports, etc.).
- Security market (HLS, marine infrastructure, etc.).
- Environmental market (coral reefs, desalination plants, ocean garbage patches, etc.).

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

IMS's solution is an automated, submersible marine perimeter the first of its kind. It is suitable for an open sea environment and is able to function as a protective barrier as well as a containment system in case of an oil spill or other contamination events.

IMS's system can be operated unmanned or by a single operator in contrast to existing alternatives, which require an oil spill response team consisting of 12-15 trained operators, 2-3 treatment/response vessels, and an area contingency plan. Whereas these alternate methods are limited by weather conditions and the time it takes to mobilize the necessary equipment to the affected area, our automated system is less affected by those factors, rapidly deployable, and more efficient in containing the hazard.

### AREAS OF EXPERTISE

**Water & Environment:** Oil Spill Control and Clean Up.



## Intelicomm

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

A flexible, easy-to-use, cost-effective private network of voice, video, data (2G/3G/4G), and satellite networks.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Intelicomm's continuous communication solutions are designed to answer the needs of offshore oil and gas rigs, platforms, and support vessels. Intelicomm's solutions are smaller and easier to install and offer exceptional technical performance and business benefits. From Intelicomm's field-proven "Fusion System," offering a private network for all known networks – 2G/3G/4G and satellite (on demand) – to its technological know-how, industry experience, and worldwide presence, Intelicomm helps end-user customers implement systems that are flexible, simple, and cost-effective.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

Intelicomm's technology is the fusion of all existing networks, thus giving a central communication gateway that allows working in both private and public networks.

Intelicomm's systems are suitable for the needs of the oil and gas industry, enabling:

- Intelligent communication solutions.
- Secure communications for voice, video, and data transfer.
- Portability and quick deployment: anytime, anywhere.
- Affordability and ease-of-use.

The Fusion System makes sure that there is no lapse in communication if the normal communication systems collapse. Another unique technology that we offer from Intelicomm labs is MCTV. MCTV utilizes an innovative method of transferring (streaming) HD quality video from any location over existing commercial cellular networks. Advantages include:

- HD Real Time streaming.
- Small dimensions (light weight, body worn).
- Wireless communication.

### AREAS OF EXPERTISE

**IT & Communications:**

Communication Technologies and Systems.



## IO Solutions

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Integrator and provider of telecommunication, IT, and security equipment and services.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

IO Solutions Ltd. is a leading integrator and provider of IT and security systems and satellite broadband data services for the corporate market using best-of-breed technology. The company is a supplier of telephony, data, and advanced services through satellite links for the maritime and fixed-communication markets. Our services include telecommunication links, IT networking infrastructure, video surveillance systems, and peripheral security.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Our expertise as an integrator offers our oil and gas customers the unique possibility of having a single contractor for a wide array of communication solutions including VSAT and wireless distribution. Our comprehensive knowledge and experience in stabilized platforms allows us to offer our clients superb service with high MTBF and low MTTR.

Our solutions for off-shore operations include equipment, installation, service, and support. We also offer leasing agreements that eliminate the capital expenditure and allow our customers a hassle-free operation. We deploy video surveillance systems for land, marine, and mobile applications. Our systems are designed for use in harsh conditions. We have the ability to control and manage the video quality from the camera, through the satellite link and terrestrial media, all the way to the remote client.

### AREAS OF EXPERTISE

**IT & Communications:** Communication Technologies and Systems.



## IOSight

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

iGreen, IOSight's core solution, is a state-of-the-art data management and reporting (DM&R)/BI system, meeting the needs of the O&G industry.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

IOSight is an innovator and a market leader in the field of infrastructure facility management. IOSight provides cost-effective BI/data management and reporting solutions for medium-to-large water and energy infrastructure facilities reducing costs, improving efficiency, increasing productivity, saving energy, and meeting regulatory standards.

Active in the water and energy sectors since 2007, IOSight has more than 60 successful installations in the world's largest desalination plants, water utilities, wastewater treatment plants, oil and gas facilities, and power plants.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

iGreen, IOSight's mature core solution suite, is an end-to-end BI and data analytics system, for the of the oil and gas industry. iGreen is an overlay to an infrastructure facility's control systems. It provides a real-time comprehensive picture of the plant's performance and deep insights into the plant's activity. Employing unique and field-tested algorithms, iGreen collects and analyzes data from a wide variety of disparate data sources such as SCADA, meters, lab, data spreadsheets, and manual inputs. iGreen then models the facility's data and processes, filters out unnecessary data, then presents only the relevant, analyzed information in highly visual reports and dashboards employing easy-to understand graphs, diagrams, and tables. The reports can be easily configured and customized with no development skills required.

With iGreen, engineering companies and integration projects can establish an effective BI capability in a short time while demonstrating immediate cost savings and improved production.

### AREAS OF EXPERTISE

**IT & Communications:** IT/Software.



to Category/Subcategory



נתיבי הגז הטבעי לישראל  
ISRAEL NATURAL GAS LINES



## Israel Natural Gas Lines

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

INGL is responsible for the transportation of the cheapest and most cost-efficient energy source available to the Israeli economy.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

INGL is a government-owned corporation, established for the construction and operation of the national natural gas transmission infrastructure. Already about half of the electricity in the country is generated using natural gas, which INGL delivers to eight large power stations owned by the Israel Electric Corporation and to independent power producers. In addition, INGL delivers natural gas to other large industrial plants in Israel. Extension of the system to small and medium consumers is ongoing by means of five new regional distribution companies which have recently been awarded licenses.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

INGL's expertise is in conducting EPC projects for Natural Gas Transmission systems, including:

- Delivery stations to receive natural gas delivered on behalf of shippers by upstream suppliers.
- A deep water LNG receiving terminal and mooring system to receive natural gas from floating storage and regasification vessels.
- Natural gas pipelines (onshore/offshore).
- PRMS stations to reduce pressure and meter gas deliveries, located at the consumer delivery points.

### AREAS OF EXPERTISE

**Engineering & Construction:** EPC.



## Israel Shipyards

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Israel Shipyards' shore-based facility has been providing logistical, manufacturing, and repair services to the region's offshore and onshore oil and gas industry since 2009.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

Israel Shipyards Ltd. was founded in 1959 in Haifa Bay as a corporation specializing in the design, construction, and repair of naval and commercial vessels.

The company's management team has many years of experience managing and executing multisystem integrative projects in the following fields:

- Development, design, construction, commissioning, training, maintenance, repair, and retrofitting of naval and commercial vessels – SAAR Class 4 and 4.5 Fast-Attack Missile Crafts, gunboats for coastal defense and naval facilities defense, SHADAG Fast Patrol Craft, tugboats, barges, merchant ships, and floating docks.
- Manufacturing and building of large, complex steel constructions for power stations, desalination facilities, and seaports and airports.
- Fabrication and supply of gas pipeline systems and downstream natural gas facilities.
- Fabrication and supply of pressure vessels in accordance with Israeli standards.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Our main oil and gas support services include:

- Tubular inspection and repair services (risers, drill pipes, casings).
- Boutique port access and exclusive staging areas.
- Secure storage for equipment.
- Pipe yard management.
- Transportation and logistics.
- Fabrication and transportation of large marine steel structures.
- Fabrication and testing of rigid jumpers and natural gas pipe spools for PRMS.

### AREAS OF EXPERTISE

**Engineering & Construction:** Marine Works and Services.



## K&H Maritime

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

K&H Maritime is a one-stop-shop for offshore supply, specialized vessels, and complementary agency services.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

K&H Maritime Ltd. was founded in 2013 by a group of highly experienced and reputed maritime professionals as a one-stop-shop in response to the growing demands of the booming energy sector in Israel and the East Mediterranean region.

K&H Maritime is part of a group which has 45 years of experience in various shipping sectors, including vessel management, bulk and project cargoes, liner shipping (as the agents for Hamburg Sud), agents for cruise vessels and tankers, freight forwarding, and more.

The group is privately owned and has three branches in Israel with a total of 65 highly professional employees.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

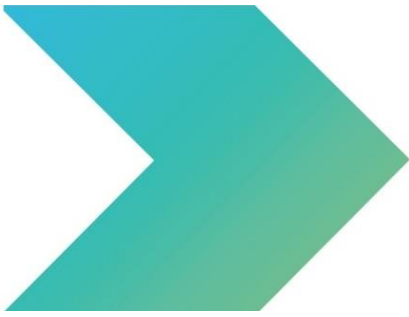
K&H Maritime offers a wide range of services for drilling, exploration, and subsea companies, as well as for brokers, ship owners, and more. We work closely, both with our clients and principals, as well as with other companies in our group in order to ensure that our solutions meet our client's needs.

Our services include:

- Vessel Procurement and Management: PSV, AHTS, crew boats, seismic, and OCV.
- Agency: attending port calls, crew changes (sea and air), provisions, coordinating with the authorities (port, MOD, Navy, IMOT), bunkering, transportation, VIP services, MEDEVAC, immigration, establishing a local entity, and 24 hour operation.
- Forwarding: full forwarding services with TCL (the group's forwarding company), all types of shipments (sea and air), tracking, chartering of project cargo vessels, and world-wide service.

### AREAS OF EXPERTISE

**Consulting & Services:** Logistics.



## Krausz Industries

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Innovative solutions for pipe joining and repairing.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

For over 90 years, Krausz Industries has been designing and manufacturing market-leading coupling and repair clamp solutions for water, wastewater, oil, and gas applications worldwide. Our game-changing HYMAX solution is an innovative and patented technology that provides unmatched reliability together with complete ease of installation. Our solutions are deployed worldwide and have been field proven in the most extreme conditions in over 30 countries including the USA, Germany, Switzerland, Russia, Spain, France, Greece, Italy and many more. Today, Krausz solutions are effectively at work in well over 2 million installations worldwide.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Our products for the oil and gas industry include couplers, adapters, reducers, flanged outlets, end caps, and a wide assortment of other parts that provide unmatched reliability. Krausz's HYMAX coupling solutions feature advanced engineering and innovative design, enabling fast installation, outstanding flexibility, and extreme durability in varied conditions. These benefits make the HYMAX a high-performance and cost-effective choice, addressing the needs in the oil and gas industry. Krausz's REPAMAX wide-range coupling products provide a highly versatile stainless steel coupling solution for connecting and repairing a wide selection of water and wastewater pipes, as well as oil and gas pipes. This family of products also stands out for its exceptional durability and flexibility and its best fit for aggressive soil conditions. The REPAMAX can join pipes with the same or different diameters and repair holes and cracks. This multi-functionality, together with a unique, extra-wide tolerance, enables smaller inventories, saving cost and shelf space.

### AREAS OF EXPERTISE

**Engineering & Construction:** Piping and Tubulars.





## Lesico

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Leading contractor for natural gas systems, erection of power plants, and maintenance services for gas turbines.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

The Lesico-Leshman group was founded in 1969 and is recognized as one of the leading privately owned companies in Israel's development and construction sector. Lesico-Leshman's expertise as a developer encompasses residential, environmental (BOT), energy, and civil engineering projects. The company carries out work through its various operational divisions and subsidiaries, including: electro-mechanical projects, railways, environment, and operations and maintenance.

The group is a versatile contractor for complex engineering projects that require a combination of know-how and technical experience in various fields, flexible solutions, and reliable project execution. The combined capabilities of the subsidiaries and integrated companies, together with a specialized work force and use of state-of-the-art equipment, provide the potential customer with the advantage of a wide range of services covering almost every aspect of the infrastructure and construction industry. The turn-key approach allows for the complete and simultaneous planning and implementation of projects, facilitating the streamlining of operations and promoting cost efficiency.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Lesico's activities in the energy sector include erection of power plants, fuel gas systems for power plants, fuel and gas pipelines, valve stations, PRMS, fuel vessels, cryogenic vessels for nitrogen, pumping stations, and more.

Lesico employs a professional team for power plant maintenance, including gas turbines, steam turbines, generators, and auxiliary equipment.

Among its clients are: Mitsubishi Hitachi Power Systems, OPC Rotem Power Plant, Dorad Power Plant, Coca-Cola, Intel, Daewoo International, Alstom, INGL, Noble Energy, and the Israel Electricity Company.

### AREAS OF EXPERTISE

**Engineering & Construction:** EPC.



## Lesico CleanTech

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Lesico CleanTech's proprietary technologies are aimed at significantly reducing the volume of desalination brine and produced water.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Lesico CleanTech is an Israeli-based water technology company and a subsidiary of the Lesico Group—one of Israel's leading infrastructure and construction companies—with over 40 years of experience in the water industry.

Lesico CleanTech has developed proprietary technologies aimed at the industrial wastewater treatment market, primarily produced water from unconventional oil and gas production, desalination brines, and beneficial reuse of mineral brines.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

The primary advantage of the WAIV system is in its energy savings, which substantially decrease the high operational costs of typical Zero Liquid Discharge (ZLD) treatment schemes.

Other advantages of the design include its: scalability, practical modular design, ability to be installed as a retrofit, linkage with a renewable source of energy (wind), and reduced footprint compared to evaporation ponds (reduction by order of magnitude).

While most companies working with ZLD applications use a multi-step processing sequence including pre-treatment, Reverse Osmosis (RO), a Brine Concentrator (BC), and a Crystallizer to eliminate liquid waste, Lesico CleanTech has focused on lowering the high costs associated with back-end thermal technologies. We provide alternative options to integrate enhanced evaporation with other disposal methods in order to minimize an evaporation pond's footprint and the number of brine injection wells.

### AREAS OF EXPERTISE

**Water & Environment:** Hazardous Waste Treatment, ZLD Solutions.



## **LipoGreen** *Turn Black to Green*

### **LipoGreen**

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#### **VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY**

LipoGreen has developed an environmentally-safe, nanotechnology-based solution to oil spill remediation.

#### **COMPANY PROFILE (Company Stage – General: R&D)**

Nearly eight million tons of crude oil spill into the environment every year causing massive environmental damage, corresponding public-health issues, and significant economic losses.

Traditional approaches are often expensive and may do more harm than good. Widely used chemical dispersants involve serious toxicity risks and require high application rates.

LipoGreen's nanotechnology-based solution for handling oil spills is more effective and less expensive than conventional approaches. By introducing the LipoGreen product into an oil spill scenario cleanup time and associated costs can be cut by fifty percent or more.

#### **PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)**

Evolution has naturally produced microorganisms that are incredibly adept at breaking down crude oil. The LipoGreen solution works by boosting the activity of these microorganisms, significantly accelerating the rate at which natural oil biodegradation can occur, while also causing a positive dispersing effect on floating oil in aqueous media and causing the release of entrapped oil from earth particles.

Our technology, composed of natural organic compounds, is approved to enhance and stimulate oil spill remediation by natural microorganisms.

Our technology stimulates the oil spill removal process in three main ways:

- Through oil sheen condensation and the "wetting effect" (in salt/sweetwater) the accessible surface area of oil droplets for oil degrading microorganisms is increased.
- By supplying critical essential nutrients (nitrogen and phosphorus) for oil degrading microorganisms.
- By a highly-effective of hydrocarbon leaching from soil.

#### **AREAS OF EXPERTISE**

**Water & Environment:** Oil Spill Control and Clean Up.



## M. Danchor

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

M. Danchor offers diverse offshore fleet, commercial diving services, offshore DNV containers, and marine pollution services up to Tier 2 for the oil and gas industry.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

With accumulated experience of over 33 years in the maritime industry, M. Danchor is a leading service company for the maritime and offshore operations.

M. Danchor offers a range of services, including:

- Commercial diving and underwater maintenance.
- DNV's offshore containers.
- Offshore fleet for any purpose.
- Marine pollution service, providing response teams and equipment.

M. Danchor is ISO-9001 certified and approved by DNV-GL, BV, ABS, and Lloyds Register for underwater works.

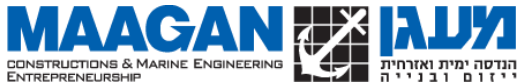
### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Some of M. Danchor's capacities include:

- Commercial diving services: hull cleaning, rudder cleaning, propeller polishing, underwater cutting and welding, in-water surveys, underwater maintenance and repairs for ships, rigs and platforms.
- Marine pollution service as responders and equipment providers.
- Fleet for any purpose: 100 m3 barge, Danchor 1 – Tugboat, Danchor 2 – Service boat, Danchor 3 – Tugboat, Danchor 4 - Service boat/DSV, Danchor 5 – Tugboat, Danchor 6 – FIF1 Tugboat, Tosca 1 – crew boat, FOX- crew boat.
- DNV's offshore containers: baskets, tanks, dry good containers, reefer containers, mini containers.
- Cleaning and inspection of drilling tools and lifting equipment, logistic areas for drilling campaign and operations.

### AREAS OF EXPERTISE

**Consulting & Services:** Logistics.



## Maagan Marine & Diving Works

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Largest marine contractor in Israel, with a vast fleet of vessels and personnel, focused on marine construction and environmental protection.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

Maagan is the largest marine contractor in Israel, owning and operating a vast fleet of vessels and unique marine construction equipment. Maagan operates within Israel's developing oil and gas industry providing marine support services to our clients. Maagan has constructed thousands of meters of new piers and quay walls. Maagan provides unique environmental protection solutions including oil spill response services to the largest and leading companies and authorities in Israel.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Maagan was one of the first companies of its kind to recognize the importance of environmental preservation, and to prepare itself with the special equipment necessary to operate as a retainer contractor in this area. Maagan's special equipment, along with its auxiliary tools (tug boats, service boats, and barges), enables it to provide a prompt response to any spillage at sea. Maagan has a retainer agreement for oil spills (environmental protection) with Israel's largest and leading companies and organizations and contained and cleaned the largest marine oil spill (40t barrels of crude oil) that has ever occurred in Israel.

Maagan has been the awarded contractor for the past six years responsible for the ongoing services, maintenance, and inspection for Israel Natural Gas Lines (INGL).

Maagan has been the awarded contractor for the past 25 years responsible for the ongoing services, maintenance, and inspection for Petroleum & Energy Infrastructures Ltd. (PEI).

### AREAS OF EXPERTISE

**Engineering & Construction:** Marine Works and Services.



## Magna B.S.P.

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

**24/7 Security video surveillance by means of electro-optic passive quadrosopic systems for O&G production and storage sites/lines.**

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Magna B.S.P offers security and safety video surveillance of oil and gas perforation, production, and storage sites, as well as transporting lines, for perimeter protection, detection of failures and terrorist attacks, and more. Magna B.S.P.'s solutions are based on electro-optic stereoscopic passive-radar systems and operate automatically 24/7, day and night, even in harsh environmental and climatic conditions. With almost 100% successful detection and practically no false alarms, this is the best performing system on the market. The system is used by the IDF, for nuclear stations' protection abroad, and in other applications in Israel and abroad, e.g. oil field security and safety in Singapore.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Magna B.S.P. provides security and safety video surveillance systems through various configurations of electro-optic stereoscopic passive radar systems, according to customer needs. Our products are based on sophisticated software and algorithms for oil and gas perforation, production, and storage sites and transporting lines.

We ensure your security and safety by protecting perimeters and detecting failures (such as leakages), terrorist attacks, and more.

### AREAS OF EXPERTISE

**Safety & Security:** Video Surveillance Technologies and Solutions.



## Mapal Green Energy

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Mapal's Floating Fine Bubble Aeration (FFBA™) technology reduces the operational costs (energy and maintenance) of treating O&G industrial wastewater.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Mapal Green Energy Ltd. offers an innovative, proven floating fine bubble and coarse bubble aeration technology that significantly reduces the operations and maintenance (O&M) costs of municipal and industrial WWTP by replacing surface aerators with Mapal's FFBA™ system. The FFBA™ technology is suitable for any type of biological reactor or lagoon and can be easily installed and maintained.

In addition to being a technology provider, Mapal offers full process design and support. Our services include: feasibility studies, design, supply and construction, commissioning and start-up, and O&M contracts and financing arrangements based on long-term "save and share" energy saving contracts.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

Wastewater treatment in the oil and gas industry usually requires biological treatment. Mapal's FFBA™ system can replace standard biological treatment processes using a mechanical surface for aeration. The retrofitting complies with all the standards and regulations of the oil and gas industry.

Mapal's FFBA™ system's main advantages are:

- Significant reduction of O&M costs of the wastewater treatment biological process when compared to mechanical surface aeration.
- "Wet Installation"- no need to drain the reactors / lagoons or to stop the treatment process.
- Suitability for any reactor size and configuration.
- No need for a concrete or leveled floor.
- No moving parts in the water: suitable for hazardous materials, corrosive surroundings, and explosive conditions environment.
- Ease of operation
- Adjustable air flow rate.
- Modular systems: very easy to add, remove, or relocate floating aeration units with no down time.
- Automatically adjusts to the water depth.

### AREAS OF EXPERTISE

**Water & Environment:** Biological Wastewater Treatment.



## Marpaz Industrial Services

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Marpaz has long been active in the chemical and petrochemical industry, offering chemical cleaning, hot oil flushing, and maintenance services.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Marpaz Industrial Services was founded in 1987. Since its establishment, it has provided technologies, solutions, and services for industrial cleaning and waste treatment. We work with several industries including: petrochemical, semi-conductors, pharmaceutical, medical, electric and electronic waste, plastic waste, metal finishing, and more. Marpaz has provided various solutions for the above industries, including:

- PCB waste handling.
- Chemical cleaning operations (pickling, passivation, scale removal, pre-operational boiler cleaning, etc.).
- Post weld heat treatment / stress relief heat treatment (carbon steel, chrome alloys, etc.).
- General construction for the chemical and petrochemical industry (pipework, ducts, reactor & furnace maintenance etc.).

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Marpaz offers to the petrochemical industry a range of services, based in its vast experience in chemical cleaning and maintenance applications, including:

- Steam boiler chemical cleaning.
- Pipeline mechanical and chemical cleaning.
- Air coolers mechanical and chemical cleaning.
- Heat exchangers mechanical and chemical cleaning.
- Columns mechanical and chemical cleaning.
- Water and waste treatment systems and services.
- Reactor catalyst loading and unloading.
- Post welding heat treatment.
- Hot oil flushing.

### AREAS OF EXPERTISE

**Consulting & Services:**

Industrial.





## Mediterranean Sea Research Center of Israel

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

A national scientific and technical resources and expertise pool in marine sciences, incorporating the relevant universities and research institutes.

### COMPANY PROFILE (Company Stage – General: R&D)

The Mediterranean Sea Research Center of Israel (MERCi) brings together scientists from all relevant and necessary disciplines to meet the important scientific and technical challenges in the coastal and offshore Eastern Mediterranean. In parallel, it continues its mission to develop advanced infrastructure to comprehensively study the Eastern Mediterranean. MERCi sets up interdisciplinary, inter-institutional projects that foster cooperation between researchers from a wide range of scientific fields. It will train a new generation of scientists by giving them the necessary tools to meet this important set of challenges.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEVELOPMENT)

MERCi plays a key role in shaping national policy on resource management, economic development, security, peace, and the environment.

The Mediterranean Sea Research Center of Israel focuses on:

- Developing the modern, scientific infrastructure needed to study the coastal and offshore Eastern Mediterranean.
- Educating a new generation of scientists and researchers who will serve as Israel's decision makers in academia, the government, industry, and NGOs.
- Ensuring sustainable development of Israel's national resources in the Eastern Mediterranean.

Israel's energy and environmental policy-making must be driven by the highest caliber of interdisciplinary scientific research. MERCi's activities set Israel on the path to academic excellence and sustainable energy independence that will ultimately strengthen Israel at home and abroad.

MERCi's advanced facilities and expert staff are also available for collaborations with industry on research projects.

### AREAS OF EXPERTISE

**Consulting & Services:** Environmental, Lab/R&D.



### Mekorot Israel National Water Co.

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#### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Minimizing water usage and pollution by employing hydrogeological surveys for defining critical protected zones.

#### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

Mekorot is one of the most advanced water companies in the world. With 77 years of experience throughout the entire water sector, Mekorot is recognized as a world leader in many fields including: desalination, wastewater treatment (including UN recognition), water reclamation, water purification, quality assurance and monitoring, and water conveyance. Mekorot supplies ~75% of Israel's water supply and wastewater treatment needs, as well as global needs throughout the water sector. International projects include DBOT, turnkey, O&M, consultations, national/regional master plan projects, and an array of strategic ventures.

#### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

Mekorot is working to protect global natural water supplies that lie near gas shale fracking locations by providing recommendations for water governance and management that encompass the entire scope of the gas fracking industry. This includes the evaluation phase and regulatory protection mechanisms throughout the fracking process, from initial licensing requests, to post-closure. Both engineering and legal-based aspects are addressed for all areas of the process, including: suitable drilling locations, viable water sources and volumes, permit approval, appropriate well design and drilling procedures, safe well shaft closure, and appropriate treatment/disposal of the wastewater during the fracking process. Mekorot's training workshops ensure preparedness for all aspects of the practical challenges that can arise in regulating and managing the gas fracking industry for water protection, including: hydrological, geological, engineering, water and natural gas management, legal, and economic.

#### AREAS OF EXPERTISE

**Water & Environment:** Consultancy.



MERCHAV ENGINEERING LTD.

## Merchav Engineering

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

We provide innovation and creativity to process engineering design, optimization, debottlenecking, effluents reduction, and safety enhancement.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Merchav Engineering offers:

- Process engineering excellence.
- Engineering for refinery, gas, and petrochemical industries.
- Services for both the chemical industry and the energy generation industry.
- Services to clients around the globe.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Some of our relevant experience in the oil and gas sector include:

- Chemical plants and refinery design.
- Refinery debottlenecking and optimization.
- Petrochemicals debottlenecking and optimization.
- Effluents reduction and treatment.

### AREAS OF EXPERTISE

**Consulting & Services:** Engineering.



## Methoda Computers

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Methoda's expertise in IT consulting ensures that a company's investment in IT optimally fits its needs and strategic goals.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Methoda's senior consultants specialize in project management, system design, tender management, and software development for both applications and IT infrastructure.

Methoda also specializes in outsourcing projects, knowledge management, annual work plans, standards and regulations, and risk management. Counseling is based on proven methodologies such as MethodA, CMMI, PMBOK, and ITIL best practices.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

We have been assisting the Ministry of National Infrastructures, Energy and Water Resources in building the NDR (National Data Repository), designed to manage information relating to oil and gas in Israel (e.g. surveys, drilling, production, licensing, and reporting). The NDR system interfaces with relevant parties such as government institutes (geophysical, geological), companies engaged in E&P activity, and the general public. Methoda's tasks in this project have included: preparing an international tender, assisting with the selection of a system provider, and providing ongoing support during the implementation phase.

Methoda provides the following services and solutions for the IT community at large and for the oil and gas industry in particular: IT infrastructure management, command and control (using ITIL), business continuity DRP / BCP, Tenders Management & SOW's, requirements and changes management, risk management, EHS (Environment Health Safety) system, etc.

### AREAS OF EXPERTISE

**Consulting & Services:** IT Consulting.



## Metrycom Communications



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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Metrycom provides a reliable IoT platform, based on ultra-low power wireless units that can be spread over large distances using IPv6 mesh radio technology.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Since 2008, Metrycom has been providing rapidly deployed ultra-low power consumption wireless sensor solutions for large area applications.

Metrycom provides:

- MetrySense-3000 – flexible and robust mesh-radio data acquisition system.
- MetrySense-4000 and MetrySense-5000 - Systems for prediction and detection of faults in high voltage power grids.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DISCOVERY)

Metrycom wireless sensor mesh network can be used in order to deploy large number of sensors required for oil and gas industry applications, over large geographical areas, and operate with high reliability, without requiring any cellular service or external power sources. The system can be connected to many types of off-the-shelf sensors and meters.

### AREAS OF EXPERTISE

**Monitoring & Control:** Industrial Internet of Things.



## Mobilicom

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Mobilicom's Bound-Free Mobile Private Network® delivers communication with no need for infrastructure, designed for harsh offshore conditions.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Mobilicom Ltd. designs, develops, and manufactures instant mobile wireless solutions and products for mission critical applications. Mobilicom is the only company that incorporates instant, ad-hoc/mesh, 4G mobile, and broadband communications into one solution.

Mobilicom's MCU product family offers an ad-hoc LTE broadband solution for public transportation, smart grids, and emergency applications such as disaster relief communication. The system consists of a network of sophisticated communication devices that work without standard infrastructure, creating an instant broadband connection while saving money on expenses.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

Based on cutting-edge 4G mesh technology combined with LTE physical layer and MIMO antennas, the MCU-200 IP communication unit, with its ultra-ruggedized casing and its internal CPU modem, is designed to reinforce mission critical communications in extreme environments and conditions, as in offshore operations. The MCU-200 is a multi-functional unit that self-adjusts to serve as a receiver, transceiver, base station, or gateway on an as-needed basis. The unit consists of a powerful modem and amplifier suite, a Software Defined Radio (SDR), and allocated available CPU resources for external software integration of any kind.

These main components address the following needs:

- Distance – provides up to 4x more coverage than regularly available products.
- Performance – provides up to 10x more capacity than regularly available products.
- Flexibility – assures the utmost flexibility.
- Generic platform.
- Software Defined Radio.

### AREAS OF EXPERTISE

**IT & Communications:** Communication Technologies and Systems.



## Modcon Systems



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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Modcon has 40 years of experience in process analysis, control, and optimization for the production of high value and customized products.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

Modcon Systems has 40 years of experience in industrial processes optimization based on product quality, cost, and safety criteria. Modcon's process analyzers, in conjunction with modern process control and optimization tools, enable a significant increase in the production of high-value and customized products at optimal cost and with minimal environmental burden.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Modcon provides the following advanced solutions for the oil and gas industry:

- Process analyzers and analyzer houses.
- Gasoline, diesel, fuel oil, and crude oil in-line blending.
- Tank farm automation and petroleum products movement control.
- Refinery process unit optimization and DCS solutions.
- Process control, instrumentation and cyber security.
- Continuous emissions monitoring and ambient air quality control.

### AREAS OF EXPERTISE

**Monitoring & Control:** Analyzers.



## Morex 71

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Morex 71 offers Non-Destructive Testing (NDT) and Certified Welding Inspection (CWI) services.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Morex 71 is the oldest and most respected private NDT laboratory in Israel, accredited by ISRAC (Israeli Laboratory Accreditation Authority) according to ISO 17025 and other regulatory agencies.

All technical staff at Morex 71, engineers and technicians, are certified to Level II and Level III according to ASNT and ISO requirements.

Morex 71 has been approved by the most important industrial and military customers, among them Israel Chemicals, Israel Aircraft Industries, the Ministry of Defense, the Israeli Navy, the Israeli Air Force, Israel Shipyards, and more.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Morex 71 offers the entire range of NDT services to the oil and gas industry. We are well experienced working according to the requirements of the Natural Gas Authority.

Morex 71 has performed inspections for many of the largest gas projects in Israel and has worked with Noble Energy, INGL, BAZAN, and more.

### AREAS OF EXPERTISE

**Consulting & Services:** Inspection and Testing.





## mPrest Systems

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Monitor and control systems for utilities, connecting the dots: security, safety, cyber, operations, and logistics.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

mPrest Systems is a leading software house specializing in the development of several types of high-performance software systems, including Command & Control (C4I) and Homeland Security (HLS) systems for the defense sector, the security sector, and national infrastructure systems (energy, water, etc.). mPrest possesses extremely high technological capabilities which translate into the development of complex systems in a shorter time-frame and with the highest quality, all while adapting to the users' changing requirements.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

The "Information Grid" system is based on a unique architecture, which allows the integration of an infinite number of systems and assets with no limitation on the number of links or data. The system's architecture uses a generic software platform, which normalizes data from different systems to a uniform and standard data stream, which can then be handled and correlated efficiently.

The "Information Grid" system enables improved command and control over the various security capabilities in the organization. It allows the analysis of routine operations, as well as extreme situations, and facilitates the creation of response procedures, crossing disciplines and organizations.

Mr. Eli Glickman, CEO of the Israel Electricity Company: "IEC, together with mPrest Systems, developer of the 'Iron Dome' system, have developed the 'Information Grid' system to be the best security and defense system available today for infrastructure companies."

### AREAS OF EXPERTISE

**IT & Communications:** IT/Software.



INDUSTRIES & RESEARCH CARMIEL LTD.

## MTC Industries

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

MTC Industries designs, develops, customizes, and manufactures highly accurate motion control products and sub-systems.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

We serve our customers as a lead product manufacturer to various electro-mechanical products and sub-systems. MTC is a build-to-spec manufacturer with a strong R&D department, mechanical workshop, assembly facilities, and a metallurgical laboratory. The thermal coating division provides solutions in a wide range of applications and industries. MTC offers a variety of thermal spray coatings that have the capacity to transform the original properties of parts of the surface into more desirable ones. Our engineers specialize in finding solutions tailored to customer requirements and solving many developing needs within our customer's markets.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEVELOPMENT)

MTC is one of the leading industry leaders in electro mechanical components for various applications within the oil and gas industry; from unique electric motors to fuel manifold, gas pumps, position sensors, and more. Our engineering team welcomes build-to-spec projects which combine mechanical production, assembly, and testing - a core strength of MTC. All of our products are field-tested and undergo tough environmental testing to ensure exceptional quality, reliability, and robustness in all operating conditions.

### AREAS OF EXPERTISE

**Monitoring & Control:** Instrumentation and Devices.



## Nanoplate

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Nanoplate focuses on the development and commercialization of innovative and economical nanotechnology-based coating and plating solutions.

### COMPANY PROFILE (Company Stage – General: R&D)

Nanoplate Ltd. is a dynamic, fast-growing company at the forefront of technological development and the application of unique nanotechnologies. Nanoplate was established in 2009 by the Israeli based Interplate Ltd., which is committed to promoting new, safe, and proven nanotechnology-based coatings.

Nanoplate develops, produces, and markets customized materials in the field of chemical nanotechnology with multi-functional properties. Thanks to its technology and know-how, Nanoplate is able to provide ready to use technologies and to develop customized applications in many fields, including: aerospace, defense, electronics, power, pharmaceutical, automotive, and oil and gas industries across global markets.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEVELOPMENT)

Nanoplate's technologies can be used for various applications in the oil and gas industry, including: anticorrosion, low-friction, and wear resistant nano-based coatings and specialized coatings for tubing and for diamond tools.

### AREAS OF EXPERTISE

**Engineering & Construction:** Materials and Coatings.



## Nation-E

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Nation-E's First Energy Firewall™ and Energy Cerebrum™ (SIEM) are end-to-end solutions protecting critical energy infrastructure from cyber-attacks.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Founded in 2010, Nation-E is a pioneer and global leader in the field of Energy Cybersecurity. Nation-E develops cutting-edge software solutions for the critical infrastructure market. Our solutions provide advanced platforms for cybersecurity, risk management, big-data analytics, sector-specific security detection and prevention mechanisms, and more. Nation-E targets critical infrastructure such as air and sea ports, data centers, financial services, HLS, oil and gas production facilities, and water, gas, and electricity utilities.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

With the development of the Internet of Things and 'smart' controllers, the oil and gas industry, like other traditional industries, has become vulnerable to cyber-attacks on its end points used for the production and distribution of oil and gas. Nation-E's technology is a powerful platform that collects data from the end devices, analyzes it, and uses the results to detect anomalies in behavior.

In 2014 Nation-E released the 1<sup>st</sup> version of the First Energy Firewall™ that connects to, extracts data from, and protects the physical layer of end devices. These units are currently configured for the energy world but can be easily adapted to protect the end devices in the oil and gas industry. Nation-E is currently in the final stages of developing an end-to-end solution which includes the Energy Cerebrum™, a unique SIEM (Security Information and Event Management) system, which will include a sophisticated risk management layer, a scheduler, big-data analytics, and other unique features developed for the protection of super critical infrastructure. The complete end-to-end solution is expected to be commercially available by Q3 2015.

### AREAS OF EXPERTISE

**Safety & Security:** Industrial Cyber Security.



## New Rocket

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

NewRocket is developing life-saving helicopter safety systems for offshore and remote land-based operations.

### COMPANY PROFILE (Company Stage – General: SEED)

NewRocket is developing proprietary gel technology enabling a stable and non-toxic engine propellant, without sacrificing performance and control. NewRocket's gel propellant combines all the advantages of both liquid and solid propellants. Safe to use and transport, the propellant will improve performance, offering a powerful thrust that can be controlled and extinguished when needed. NewRocket's gel propulsion technology is designed to meet the strictest industry regulations.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEVELOPMENT)

NewRocket is promoting innovative, life-saving applications for the helicopter market based on its proprietary rocket engines. Helicopters are the main means of transportation for off-shore rigs and remote land-based facilities and helicopter accidents are a major cause for fatalities within the oil and gas industry. NewRocket's rocket engines will serve as back-up and support systems for various hazardous scenarios such as helicopter ditching and rotor failures, thus saving the lives of the helicopter crew and passengers, as well as the helicopter itself. Future applications based on NewRocket technology include high-power engines that can also operate under water. Such engines may be used for under-water operations such as trenching and drilling where high-power generation may be required on-site. In addition, the technology can serve for gas-generators, generating large amount of water steam in a very short time.

### AREAS OF EXPERTISE

**Safety & Security:** Emergency and Rescue Equipment.



# NEXTNINE

Connected ICS. Secured.

## NextNine

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Automation of plant-wide security policy from a central security and operations center.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

NextNine is a leader in Operational Technology (OT) security management software for industrial and critical infrastructure. Using NextNine, you can have centralized OT security management for the entire SCADA/ICS environment. Top-tier critical-infrastructure companies, along with some of the largest industrial vendors, have standardized their systems with NextNine. The company has nearly 6,000 installations globally for more than 1,000 enterprises in fields such as oil, gas, mining, chemicals, energy, manufacturing, defense, and critical infrastructure. NextNine has been also recognized by the White House for its leadership.

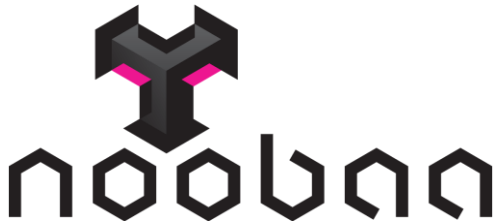
### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Oil and gas facilities have become major targets for cyber-attacks. These environments use proprietary, mission critical, and sensitive SCADA/ICS networks and devices, challenging traditional IT security management solutions. Industrial sites also require remote access by vendors to provide timely support to their systems, introducing additional complexities in maintaining the security of the OT environment.

NextNine's OT security solution provides oil and gas facilities with a robust, centrally managed and enforced OT security policy and with automated hardening processes with compliance reporting to management and regulatory authorities. The solution includes a security center system located at a company's headquarters, and Virtual Security Engines (VSEs), installed at each site.

### AREAS OF EXPERTISE

**Safety & Security:** Industrial Cyber Security.



## NooBaa

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

NooBaa is a large-scale file storage solution that installs as a software-only product and can utilize any hardware located anywhere.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

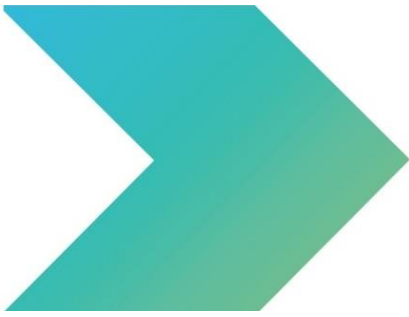
NooBaa brings a new architectural approach to customers with large-scale data storage challenges. NooBaa’s product is a software-based scalable-storage solution that is being described as “frictionless”. This frictionless experience also applies to ongoing management of the archive, where the ability to automatically accommodate any host and media technology eliminates lock-in and technology risk. NooBaa’s innovation lies in the use of advanced metadata and machine-learning technologies, which are used to orchestrate data-placement across resources to optimize for resilience, performance, security, and economics, while reducing administrative complexity. NooBaa also supports the use of cloud resources as well as on-premise resources for true hybrid support.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

NooBaa supports a variety of file-based workloads in enterprise, as well as vertical solution areas like oil & gas and media & entertainment, where applications share similar needs for scalability, economy, agility, and flexibility. NooBaa is currently working with oil and gas customers at a pilot-project level to validate applications and roadmap priorities.

### AREAS OF EXPERTISE

**IT & Communications:** IT/Software.



## NortecView

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Automated tracking and traceability GIS platform for underground infrastructure, enabling the transfer of data from the field to the office in real-time.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

NortecView, a subsidiary of the Nortec Group, and the American Gas Technology Institute (GTI) has developed a tracking and traceability system for underground infrastructure for gas utility companies. Our ESRI mobile GIS platform directly integrates with a company's GIS to create maps and records of new installations in real-time. No manual data entry, no human errors, and zero processing costs.

NortecView was funded by the Israel-U.S. Binational Industrial Research and Development (BIRD) Foundation and by natural gas distribution companies in North America through their Operations Technology Development venture (OTD).

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

NortecView's system is a cutting-edge mobile GIS traceability system for pipes, fittings, and fusions. The software creates GIS features directly in an ESRI environment with a format that allows field-collected data to be directly integrated into the enterprise's GIS in real-time, enabling QA and QC.

Barcode scanning and sub-foot-accuracy GPS automate the process of creating and populating GIS features from ASTM F2897 \ ISO 12176-4 barcodes, eliminating the need to manually enter values.

The fusion traceability data (records of installer, equipment, and other important fusion parameters) is stored both in the GIS and on an ultra-durable barcode label with a 50-year lifespan in underground conditions, placed next to the fused joint and used as a "black box," to verify back-office data.

### AREAS OF EXPERTISE

**Monitoring & Control:** GIS Traceability Systems.





## NOVO DR

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Our portable digital radiography systems offer on-site, immediate, lab quality radiography images at the touch of a button.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

NOVO's portable X-ray systems offer unique advantages to the oil and gas industry's radiography. We do inspections of pipes, pressure vessel, structural welds, valves etc. These state of the art units make it easy to find various defects as well as measuring pipes' wall thickness with precision. The systems are compact yet robust, easy to carry and can fit in tight or elevated locations. Utilizing sensitive detectors - NOVO's systems have been designed and developed to address numerous radiography assignments in refineries, offshore platforms, power stations, and exploration and transmission facilities.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Oil and gas facilities are required to perform regular pipeline inspections in order to keep a close eye on every pipe, vessel, weld, joint and valve. With NOVO's advanced portable digital radiography solutions you will now be able to perform fast evaluation while achieving uninterrupted, accurate, top quality images of even the smallest details in the most inaccessible locations.

NOVO's systems are designed to address your exact needs: reveal corrosion, erosion, pipes' wall thickness as well as identify typical weld defects such as cracks and inclusions.

Our compact yet rugged system will help you perform your inspection routine, follow up on changes and quickly analyze your findings, in every location, under any weather conditions, be it in refineries, offshore platforms, power stations or exploration and transmission facilities.

### AREAS OF EXPERTISE

**Monitoring & Control:** NDT Technology.



## Ocean Bricks Systems

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

**Building more stable environmentally-friendly off-shore islands for the O&G industry faster and more cost-effectively than any other method.**

### COMPANY PROFILE (Company Stage – General: R&D)

Ocean Bricks Systems (OBS) plans and constructs all types of marine structures using the most efficient and cost-effective methods and with an eye to providing the best environmental outcome for marine fauna and flora conservation.

The marine structures include, but are not limited to:

- Industrial islands.
- Deepwater seaports for oil (and other commercial usage).
- Wind-turbine bases for electricity production.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

Our unique technology enables us to build marine superstructures that meet all the needs of 21<sup>st</sup> century companies to drill in water: whether in oceans, seas, lakes, or rivers. The OBS system is patented and has the Germanischer Lloyd & Danish Code approval certificate. Most of the precast production is done on land, which gives us the ability to work year-round and finish on schedule for 25% to 30% less cost. OBS' method is the most environmentally-friendly marine construction method that has been tested in the Red Sea, one of the most sensitive marine environments, which has led to its approval from all environmental protection authorities and agencies in Israel.

### AREAS OF EXPERTISE

**Engineering & Construction:** Construction Technology.



## ODIS

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Broad range of field-proven customized oil-in-water (OiW) treatment solutions, addressing O&G upstream and downstream industry needs.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

ODIS is a leading manufacturer of water treatment equipment for various applications in the oil and gas industry – offshore, onshore, hydraulic fracturing, primary separation (automatic, heavy-duty, self-cleaning screen filters and pressurized sedimentation units), tertiary separation (multimedia filters, activated carbon filters), process water (H<sub>2</sub>S removal, dissolved solids removal, chemical treatment), and water disposal treatment according to environmental regulation.

Our equipment is installed in both the downstream and upstream sectors.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

ODIS offers equipment and solutions for the upstream and downstream sectors, for the onshore and offshore segments, and for produced water and injected water.

Our solutions include: membrane technology (RO, UF), filtration technology (media filters, activated carbon filters, walnut shell filters, and automatic, self-cleaning screen filtration), hydrocyclone separators, Soliquators® (clarifiers for fast, heavy-load solids removal), removal of dissolved salts (sulfates, nitrates, other contaminants, scaling agents, etc.), gas removal (H<sub>2</sub>S, propane, and other gases), dissolved organic compounds removal (VOC-TOC, hydrocarbons and non-hydrocarbons), and disinfection solutions (UV, ozone, etc.).

Solutions for the upstream sector include: connate water, flowback water, reservoir fluids water, condensed produced water, re-used water, and discharge water.

Solutions for downstream include: wastewater purification, cooling tower make-up water, and boiler feed water.

### AREAS OF EXPERTISE

**Water & Environment:** Turnkey Solutions, Water Filtration Systems.



## Opgal Optronic Industries

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

**EyeCGas® – Opgal's innovative optical gas imaging camera – enables the quick and safe detection and visualization of VOCs and other gases in field conditions.**

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

Opgal is a leading global manufacturer of innovative thermal imaging safety systems and infrared cameras. Opgal develops and manufactures EyeCGas®, EyeCGas® CO<sub>2</sub>, and EyeCGas® FX - a family of fugitive emission detection thermal imaging cameras that are Quad Oa compliant, capable of detecting the leakage of VOCs and other gases from a distance. Opgal offers the widest selection of infrared cooled and uncooled OEM cameras and engines for industrial, military, paramilitary, security, and commercial applications. Its products have been successfully field-tested worldwide for over 32 years. The company's creative R&D, cutting edge technology, speed, and flexibility make us your best partner for IR applications.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Opgal's EyeCGas® features:

- Industry Design – designed for the harsh environments of the oil and gas industry. EyeCGas® is certified to meet IEC standards for temperature, humidity, vibration, dust, and water intrusion.
- Quad Oa Compliant – Meets EPA requirements for OGI equipment performance standards.
- Safe – the only camera certified for use in Class I Div 2 and ATEX II 3G Ex nL IIC T6 for hazardous environments.
- Enhanced Imaging – Leveraging over 32 years of thermal imaging expertise, EyeCGas® uses proprietary enhanced image algorithms, enabling the detection of the smallest gas leaks.
- Audio/Video Recording –provides real time video recording with audio narration.

Opgal's EyeCGas® benefits:

- Safety – Detection of safety risks by providing a clear visual of methane and other volatile organic compound (VOC) emissions.
- Environmental – Quick and clear detection of invisible fugitive gas emissions that are harmful to the environment.
- Operational Efficiency – Allowing the scanning of multiple elements simultaneously.

### AREAS OF EXPERTISE

**Monitoring & Control:** EO/IR Detectors.



## optiQGain

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

optiQGain makes real-time, online, high-resolution molecular-level analyzers.

### COMPANY PROFILE (Company Stage – General: R&D)

optiQGain's innovative solution is an SRS (Stimulated Raman Scattering) spectroscope capable of high-resolution (PPM's in 0.1 second) molecular detection and concentration determination of specified target molecules. The new design enables better product quality and increased profitability.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEVELOPMENT)

TraqNRG, optiQGain's first application, analyses combustion compounds for multiple areas of the energy industry. It was co-developed with a major gas turbine manufacturer for gas turbine control; it enables online calibration and optimization of turbine performances to accommodate for changes in gas composition and quality (including bio-gas).

TraqCOMP is an industrial process analyzer for direct sampling of gas or liquid samples: fitted with application specific probes and software, it analyzes process components and provides feedback to a central control for real-time updates and adjustments. A single device can support multiple detection points.

optiQGain's unique product is an innovative SRS Raman spectroscope capable of generating a Raman spectrum in extreme industrial or outdoor conditions. Through sophisticated computerized analysis, it provides real-time detection and concentration of specified target molecules.

### AREAS OF EXPERTISE

**Monitoring & Control:** Analyzers.



## Optoacoustics

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

We manufacture robust, highly sensitive EMI/RFI-immune microphones designed for use in extreme, highly explosive, or corrosive environments.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Optoacoustics is the world leader in high-performance, optical, fiber-based sensing solutions for industrial and medical applications.

We design and manufacture a range of products that meet very demanding sensor requirements which cannot be addressed by conventional electronics. Our unique systems blend the natural intelligence of two disciplines: optics and acoustics.

For the oil and gas sector, Optoacoustics' engineers have pioneered the commercial design and manufacture of robust, inherently-safe sensing solutions to field activities, industrial plants, and research facilities.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

Optoacoustics' unique, best-selling OPTIMIC optical microphone series meets the demanding requirements of oil and gas exploration, petrochemical refineries, and other manufacturing facilities operating under extreme conditions.

Our OPTIMIC family offers:

- Complete EMI/RFI immunity.
- High signal quality.
- High SNR, low THD.
- Lightweight or ruggedized options.
- Negligible signal loss over distance.
- Long term reliability and stability.

Each OPTIMIC is a complete sensor system, able to operate independently or in custom-engineered configurations.

### AREAS OF EXPERTISE

**Monitoring & Control:** Fiber-based Sensing Solutions.



## Particle Monitoring Technologies

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Online, in-process monitoring of oil residues in produced water.

### COMPANY PROFILE (Company Stage – General: R&D)

PML is an Israeli electro-optical company that aims at becoming a leader in online, in-process particle and nanoparticle monitoring in the semiconductor field and in water applications, such as oil droplet size, characterization, and concentration measurements in recycled and produced water for the oil and gas industry. PML's technology is based on a patented method of interaction between particles and structured laser light beams. PML's technology consists of a uniquely structured "dark" laser beam, which interacts with the particles. The technology is based on IPSA® (Individual Particle Sensing Approach), which enables automatic, continuous, on-line monitoring of particle sizes (including nanoparticles) and concentrations in liquids, air, or a vacuum.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEVELOPMENT)

PML's analyzer is a reliable online, in-process oil droplet size analyzer with the ability to measure the total concentration of the emulsified oil in water (as opposed to free floating oil and water soluble organics). The system can differentiate between particle categories such as clay, silica, oil droplets, and others according to their optical signatures by employing machine learning tools on the laser-particle interaction signal. The system is compact, yet offers high sensitivity and resolution across a wide range of particle sizes and concentrations. It therefore provides simple, reliable, and continuous online monitoring of the oil residues in the produced water from oil and gas extraction. Its current main application is in the oil sands industry, especially in the Steam Assisted Gravity Drainage (SAGD) method.

### AREAS OF EXPERTISE

**Monitoring & Control:** Analyzers.



## Perytons

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Detection of tampering attempts of IoT networks for meter reading. Automation via independent monitoring and analysis.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Perytons™ is a leading provider of analyzers for standard and proprietary communication protocols. The Perytons product portfolio includes: Zigbee/IEEE 802.15.4, Thread, LoRAWAN, PLC-PRIME, G3-PLC, Bluetooth Smart (BLE) analyzers, as well as the Perytons™ Network Visibility and Eye-O-T Defense solutions for monitoring and cyber security attempts alerting of last mile IoT networks. Leveraging years of experience in the development and implementation of wireless communication networks, the Perytons™ team is totally focused on providing developers, implementation experts, and field engineers with the best analysis tools, combining advanced feature sets with rich yet intuitive user interfaces.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

Perytons™ provides early detection of tampering and fraud attempts in an IoT network's last-mile for applications like oil and gas meter reading manipulation, leakage detection, unauthorized devices', FW reload, etc. through a non-intrusive and independent remote monitoring and analysis system of narrow-band networks.

### AREAS OF EXPERTISE

**Safety & Security:** Industrial Cyber Security.





## Plasan

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Innovative, lightweight solutions for protection and safety from fires and explosions for onshore and offshore platforms. We bring 30 years of proven experience to a range of requirements and customers.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

Plasan is an international corporate group engaged in the design, development, and manufacture of state-of-the-art, lightweight, armor protection products and integrated survivability and safety systems.

As a recognized global leader and industry veteran, Plasan's solutions offer a unique optimization of protection, payload, and cost by combining in-house R&D, design, prototyping, testing, and manufacturing capabilities. Its operationally-tested products are used by defense, law enforcement, security personnel, and private critical infrastructure clients all over the world.

As a global company with locations in Israel, North America, South America, and Europe, Plasan is considered a worldwide market leader. Founded in 1985 with six employees, Plasan currently employs a global staff of over 1,300 employees working in: Israel (900), the US (240) and France (160), of whom more than 17 percent are engaged in R&D, prototyping and engineering.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Plasan's offerings for the oil and gas industry include:

- Blast resistance products:
  - Blast walls;
  - Protected containers;
  - Blast doors.
- Armor protection products:
  - Add on panels for ballistic threats;
  - Modular armored containers\shelters;
- Surveillance and patrol.
- Mobile solutions for patrol and protection needs.

### AREAS OF EXPERTISE

**Safety & Security:** Blast Protection, Fire Protection, On Land/at Sea Perimeter Protection.



## Precog

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

By predicting failures, Precog's plug and play innovative solution can increase the reliability of oil and gas equipment dramatically.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Precog is an innovative Israeli startup company, offering a cloud-based solution that predicts potential failures in plants days in advance. It is a software-only solution that is based on data that is being collected by existing sensors in the plant. In complex systems, Precog's solution can predict potential failures, small leakages and abnormal operation without triggering false alerts. The solution is very fast to implement. After two weeks, the system will start showing actionable and clear alerts.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

Precog's solution is a perfect fit for the oil and gas industry, given the high complexity of oil and gas facilities, operations, and the high OPEX costs. In addition, it can create high value in running remote operations and triple the productivity of remote operations control rooms.

Precog's solution has been proven successful in various industrial systems from electricity generation to chemical plants. Currently, the company is in discussions with oil and gas companies and service providers for testing its solution in oil and gas facilities.

Applying Precog's solution will increase the reliability of equipment installed in the oil and gas industry dramatically, save investments in maintenance and in redundant equipment, and minimize unplanned downtime of oil and gas assets.

### AREAS OF EXPERTISE

**IT & Communications:** Big Data & Analytics.



## PREsenso.

### Presenso

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Presenso's machine-learning and real-time analysis algorithms reduce machine downtime by predicting future failures.

### COMPANY PROFILE (Company Stage – General: R&D)

Presenso is providing an artificial intelligence-based solution for reducing machines' downtime by tens of percents. Presenso's system collects immense amounts of data at a very high speed from dozens of sites, hundreds of machines, thousands of sensors, and streams the data to the cloud, where it analyzes it in real time using unique and advanced methods. The outcome of this analysis is the prediction of any evolving failure underlying in the fleet of monitored assets.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Presenso offers a cloud based solution for maximizing industrial production uptime. By constantly analyzing the big industrial IoT data generated by an array of machine sensors, our cognitive software provides operational intelligence and deep semantic insights which in turn increase production yield and revenues. That means:

- Improved assets availability and reliability.
- Fewer shutdowns and catastrophic failures.
- Reduced damage to critical equipment.

Presenso will predict failures across a global fleet of machines and trace it back to its origin. This unique Artificial Intelligence-based approach serves our customers both by avoiding unplanned downtime and by saving valuable troubleshooting time. After predicting a failure, Presenso's solution will pinpoint to the exact module prone to fail and provide a list of all affected and correlated sensors.

### AREAS OF EXPERTISE

**IT & Communications:** Big Data & Analytics.



Protective Coating Technology

## Protective Coating Technology

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

PCT's ceramic coating systems can be applied to manifolds, drills, transport pipes, core barrels, and all other parts exposed to any corrosion or wear.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Protective Coating Technology, PCT, is a revolutionary surface protection that can be applied to a wide range of aluminum, magnesium, and titanium alloys.

PCT develops and applies unique corrosion and erosion-resistant protection solutions enabling the replacement of high-performance alloys, titanium, and other exotic metals.

Current technologies deployed by PCT include:

- Micro-arc oxidation.
- P-Seal organic sealing.
- S-Seal organo-ceramic sealing.
- Aluminized steel.

PCT's model includes developing a customized solution for each application and providing accessible service near its customers. There is already a facility in Israel and one under construction in the US.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

PCT's technology offers unique advantages in oil and gas sector applications:

- Tubing with improved wear and corrosion resistance, weight reduction, and sour service.
- PCT sealing of thermal sprayed aluminum (TSA) pipes and structures.
- Corrosion-resistant bolts and drill riser connection joints.
- Aluminum light-housings for offshore service.
- Core-barrel coating with high lubrication and good wear resistance.
- Aluminum manifolds at pH 13 eliminating galvanic corrosion, wear, and corrosion in general.
- Drill pipes with improved wear resistance and high resistance to corrosion.
- Aluminization of risers that is better and cheaper than TSA.
- Overall replacement of ineffective coatings for aluminum or high-cost alloys (Ti, stainless, super duplex, etc.) with improved surface (anti-friction, anti-fouling, anti-sedimentation, etc.).

### AREAS OF EXPERTISE

**Engineering & Construction:** Materials and Coatings.



## ProTrack

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Advanced video surveillance and computer vision applications in harsh conditions.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

ProTrack Ltd. is a leading developer and worldwide vendor of computerized vision and video content analysis software products. We have been providing solutions for the security, surveillance, military, and civilian markets since 1998. Our cutting-edge capabilities can be operated as stand-alone or seamlessly integrated into the customer's systems (OEM), and include:

- Ground/aerial motion detection and tracking for perimeter security.
- Critical infrastructure security.
- Intrusion, suspicious object, and smoke detection.
- Maritime traffic control and security.
- Ground/aerial wide area surveillance and monitoring.
- Rapid Aerial Mapping.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Protrack can provide various measures of security for oil and gas operations. Our software products complement existing systems with advanced and unique abilities and provide added-value to any command, control, and surveillance system. Our features include:

- Critical infrastructure security and safety.
- Perimeter security.
- Maritime security and traffic control.
- Early-stage smoke and fire detection.

### AREAS OF EXPERTISE

**Safety & Security:** Video Surveillance Technologies and Solutions.



Stabilizing an unstable world!

## PRS

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

High-strength PRS-Neoweb™ geocells provide reliable access roads and rig platforms on any soil and in any climate for energy exploration and development.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

PRS offers innovative ground stabilization and reinforcement solutions that let oil and gas companies focus on exploration instead of construction. Leading oil companies worldwide have used the unique PRS-Neoweb™ geocell to build access roads, pipelines, drilling platforms, and storage facilities for heavy equipment and vehicles in extreme conditions, such as saturated peat bogs, sandy deserts, and frozen tundra. PRS provides the most advanced geocell technology, which is ideally suited to the needs of the oil and gas industry.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

The innovative PRS-Neoweb™ 3D geocell technology is an ideal solution for the oil and gas industry facing the engineering, environmental, and economic challenges of constructing access roads, drilling platforms, and pipelines. PRS-Neoweb™ stabilizes subgrade soil, reinforces base infill, and reduces road surface degradation in any type of soil.

PRS-Neoweb™ also improves the bearing capacity of weak soils (peat, sand, clays) for heavy haul trucks and drilling equipment for reliable and safe transport.

The high-strength PRS-Neoweb™ also uses locally available soil for structural infill, reducing the need to import aggregate to remote locations and enabling faster and more cost-effective projects. Roads and platforms built with PRS-Neoweb™ offer a smaller environmental footprint and an extended service life for more sustainable and economical energy exploration.

### AREAS OF EXPERTISE

**Engineering & Construction:** Construction Technology.



## RADiFlow

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

RADiFlow provides DPI firewalls for SCADA networks in order to protect critical infrastructure, such as O&G facilities, from cyber threats.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

RADiFlow is a provider of secure industrial Ethernet solutions for critical infrastructure applications. RADiFlow provides an innovative network design for utilities based on its ruggedized switches, which contain an integrated SCADA firewall. Such a distributed, network-based security deployment protects against an attacker that may have gained access to the internal operational network (e.g. Stuxnet scenario).

RADiFlow is part of the RAD group, a family of companies which provide solutions for various ICT segments. The RAD group has more than 4,000 employees world-wide.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Oil and gas drilling rigs are typically deployed in remote areas and are spread over hundreds and thousands of kilometers. This type of deployment exposes the network to many types of cyber-attacks such as man-in-the-middle, physical attack, and more. The ability to control, monitor, and inspect the various parameters of the controllers and sensors in the rigs and along the pipes from a remote control center is vital for oil and gas operators. Many sites have limited wireline connectivity so cellular networks are used as their main access or as a backup.

The RADiFlow 3180 routers are optimized to the needs of the oil and gas industry for secured access:

- Designed for installation in harsh and hazardous environment.
- Validation of the SCADA behavior per user using per-port DPI firewall.
- IPsec VPN for inter-site secure connectivity (against man-in-the-middle attacks).
- Identity management for technician authorizations for device/application access.
- Ethernet Ring Protection (ERP) for fast resiliency over fiber/copper Ethernet ring.
- Integrated dual cellular modem which enables redundant connectivity.
- Support Ethernet and serial interfaces for modern and legacy devices including protocol gateway functionality and PoE+ support for integrated CCTV traffic.

### AREAS OF EXPERTISE

**Safety & Security:** Industrial Cyber Security.



## Rafael Advanced Defense Systems

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Pipeline intrusion detection system and total pipeline and infrastructure security and protection solutions.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

Rafael's Security Integrated Systems (SIS) is a system integrator, providing total security solutions to the oil and gas industry.

The solutions include pipeline security and on-shore and off-shore infrastructure security and protection.

Additionally, Rafael provides pipeline integrity solutions capable of detecting very low leakage rate.

Rafael provides turn-key solutions from threat analysis to integrated systems for maintenance, training, and assimilation.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Rafael's main products for the oil and gas industry include:

- SISCO<sup>TM</sup> – A unique command and control system which is an open architecture, cross-mission security, border control and coastal command and control. The system includes a rule generator and Standard Operating Procedures (SOP) which can be defined and modified by the customer.
- Protector<sup>TM</sup> – An Unmanned Surface Vehicle (USV) for coastal and off-shore security and protection missions.
- TerraSonic<sup>TM</sup> – A pipeline intrusion detection system capable of leakage detection, digging in the vicinity of the pipeline, and other threats to the pipeline. TerraSonic<sup>TM</sup> pinpoints the intrusions to several meters and has an extremely low nuisance alarm rate.
- Electro-Optic Sensors, Systems and Payloads – Rafael offers a wide variety of electro-optic sensors, systems, and payloads for vehicles, UAVs, aerostats, marine vessels, and manned A/C.

### AREAS OF EXPERTISE

**Safety & Security:**

Integrated Solutions, On Land/at Sea Perimeter Protection, Unmanned Surface Vehicles.





## Raphael Valves Industries

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Raphael's state of the art control valves are fitted for use in oil and gas and include a range of deluge, pressure, and level valves for fixed fire systems.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

Raphael Valves Industries Ltd, founded in 1949 and a part of the Talis Group, is the first Israeli manufacturer for quality control valves. Since then, Raphael is leading the Israeli and international market valve industry with its wide and innovative product range. Located in a new modern facility, Raphael's product range includes hydraulic control valves, fire protection control valves, butterfly valves, gate valves, check valves and other products. Various coating technologies including epoxy, rilsan (nylon 11), and enamel give the ability to supply high quality protection for special applications.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Raphael model FDV-R fire protection valves are elastomeric diaphragm type, open fail-safe streamlined globe and angle pattern valves that feature direct resilient diaphragm seal with no wet spring or metallic moving parts inside the valve body. FDV-R valves are used for fixed fire suppression systems with water, foam, and seawater based flow control in manual or remote on-off & pressure control applications. FDV-R valves operate with a patented reinforced diaphragm, which eliminates the need for a compensating metal spring. The special elastic design enables gradual and precise opening or drip tight smooth closing of the valve without vibration, preventing water hammer. FDV-R automatic control valves are designed for installation, optionally in either the vertical or horizontal position.

### AREAS OF EXPERTISE

**Safety & Security:**

Fire Protection.



## RBtec

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

RBtec is a developer and manufacturer of perimeter intrusion detection systems on land and at sea.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

RBtec was established in 1986 by security experts with extensive knowledge and many years of field experience in large integrated electronic security projects for medium to high-risk installations.

We provide reliable, effective, affordable solutions suitable for medium to high-level critical infrastructures.

RBtec has supplied systems for over 1,000 security projects in more than 25 countries around the world, including: military bases, airports, nuclear power stations, remote oil pumping stations, oil refineries, and more.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

RBtec offers a range of perimeter security products that can help reduce theft, vandalism, and terrorism in the oil and gas industry. We provide reliable, effective, and affordable solutions suitable for any site where outdoor perimeter detection is required, either on land or offshore.

RBtec has installed land-side fence mounting sensors for Pemex, Petro-Ecuador, Eco-petrol Colombia, Perm-Gas Russia, and many more.

At sea, the company is developing a fiber optic net, the Marinet, for protecting seaports and oil and gas offshore facilities from intrusion above water and underwater.

### AREAS OF EXPERTISE

**Safety & Security:** On Land/at Sea Perimeter Protection.



Real Time Remote Control and Monitoring

## Reali Technologies

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Through its leading technology RealiteQ, Reali Technologies offers state-of-the-art technologies for real-time remote control and monitoring for oil, gas, water, and energy systems.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

RealiteQ is a virtual ICT network that opens a reliable, redundant, safe, and secure event channel for real-time remote control, monitoring, and crisis management. It facilitates real-time monitoring, control, and data acquisition from remote systems that are distributed at various locations and use different networks worldwide. The easy-to-install and user friendly philosophy of the RealiteQ system has been applied to advanced control, so management and maintenance people can tackle large, interactive process problems. Users can now easily optimize their system for maximum throughput, maximum profit, and minimum energy. Maintenance technicians can easily reduce their system's downtime to a minimum.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

The company offers communication solutions for remote monitoring and control of oil and gas facilities. The solution may be implemented and used in processes, such as water supply, wastewater treatment, energy, and more, and in the utility/auxiliary systems associated with them.

RealiteQ enables global enterprises to have full control of their worldwide sites and projects.

Whether the process is drilling, refining, filtering, PRS, PRMS, city gate, or other, RealiteQ is the perfect technology for remote control and monitoring.

### AREAS OF EXPERTISE

**IT & Communications:** Communication Technologies and Systems.



## Roboteam

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Roboteam designs, develops, and manufactures cutting-edge, user-oriented, multi-purpose unmanned platforms for use in difficult environments.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

By using RF mesh systems, which enable robots to work in areas where most other robots would not have a data communications link, Roboteam is able to provide robotic solutions for difficult environments. In addition, our robots are designed to be extremely lightweight, yet powerful enough to overcome very difficult obstacles. The base robot is a unique platform providing Ethernet, RS232, and power-out connections, allowing it to carry many different payloads and sensors. Our robots can be used for dangerous, dirty, and mundane activities, providing greater safety and productivity.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

Roboteam robots can be used for pipe, duct, and tunnel inspections and can serve as a platform from which to mount different types of sensors for safety, NDT, or clean-up operations. Our robots allow for basic machine manipulation, inspection, and quality control in dirty or dangerous areas, or in areas that are difficult or impossible for humans to access.

### AREAS OF EXPERTISE

**Engineering & Construction:** Automated Systems/Robotics.



## RT LTA Systems



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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Our solution enables perimeter security, intruder detection, situational awareness, and aerial surveillance.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

RT LTA Systems Ltd. is a world-class designer, developer, and manufacturer of the Skystar family of aerostats, proven for use in intelligence, surveillance, reconnaissance, and communications applications for both military and civilian missions. The Skystar systems have more than 1,000,000 flight operation hours all around the world. RT delivers self-contained, versatile, easily transportable, cost-effective tactical systems comprised of a mobile control station, ground system module, tether, lighter-than-air platform, stabilized payload platform, and sophisticated sensor suite.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

Skystar 180, suitable for the needs of the oil and gas industry, is a small-size, highly-mobile aerostat system, suitable for tactical mid-range surveillance security applications.

The system is based on a towable trailer and consists of a stabilized day/night electro-optical payload suspended from a helium filled aerostat that is tethered to a ground system, and a Portable Ground Control Station (PGCS).

The aerostat is operated continuously, at wind speeds of up to 40 knots. It can lift a payload of up to 6.5 kg. Skystar 180 provides prolonged medium-range surveillance coverage from an altitude up to 1,000 feet (300 meters) above ground level and transmits the surveillance video and data to the control station on the ground.

### AREAS OF EXPERTISE

**Safety & Security:** UAS.



## RWL Water - Israel

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Integrated water and wastewater treatment solutions for O&G operations using cutting-edge technologies.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

RWL Water offers advanced treatment solutions for water and effluents for both upstream and downstream oil and gas operations. We specialize in design, supply, installation, and operation of filtration, desalination, and reuse technologies for produced water in onshore oil and gas fields as well as oil refineries and offshore rigs. RWL Water offers integrated, compact systems, as well as full turn-key projects. Treatment technologies include: oil-water separation, filtration, UF, NF, and RO membranes, biological processes, and more.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Our range of solutions for the oil and gas industry includes:

- **Produced water recovery:** we design, build, supply, and operate integrated systems for produced water reuse in various oil and gas applications (conventional and unconventional oil fields, CSG/CBM fields, etc.). We offer a full treatment process: from oil-water separation using flotation and nutshell filtration through advanced filtration (polymeric and ceramic membranes) all the way to desalination and brine management. Our reuse solutions are tailored to client and project needs and can be compact and mobile or permanent turn-key projects. We run pilot tests for configuring the solution to specific produced water quality and site requirements.
- **Potable water supply:** we offer compact and energy efficient desalination systems including dual-membrane process (UF and RO) for both onshore and offshore operations.
- **Wastewater treatment:** We design and build systems for refinery/petrochemical wastewater reuse as well as compact package treatment systems for domestic effluents from oil and gas production sites.

### AREAS OF EXPERTISE

**Water & Environment:** Turnkey Solutions, Water Separation Systems, ZLD Solutions.



## Scan3D

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

3D laser scanning surveys, as-made BIM generation, oil tank deformation analysis, digital documentation, and in-context design simulation.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Scan3D Ltd. provides 3D laser scanning services, digital documentation, 3D/2D as-made models/drawings, digital analyses, and simulations for the energy and chemical industries. Our technology facilitates precise engineering designs in complex and dense environments by allowing engineers to review design results over a detailed and accurate representation of the site of interest.

Our technical knowledge base and expertise in digital documentation and precise geometric measuring, 3D modeling, etc. dates back to 1984 and has evolved from the world of mechanical engineering to the world of civil and architectural engineering.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Our technology and services provide engineers with detailed 3D models that accurately document entire facilities and their assets, such as power components, machinery, and pipelines. This scan data can be used for building management, collision detection for retrofits, as-built documentation, CAD modeling, and other plant design tasks.

The 3D laser scan technology can be used for controlling new components before their assembly, thereby enabling quicker assembly with fewer problems, less offshore welding, and shorter shutdown time for process systems. 3D surveying is ideal for facilitating quicker projects implementation, allowing for substantial financial benefits.

Scan3D offers precision surveys to engineering, design, and construction project activities. The surveys help reduce and even eliminate the inherent geometrical problems associated with new or retrofit design and construction projects.

It can also be used to compare the current 3D building status with the CAD model at any time – a quality control process that eliminates expensive and time-consuming rework.

### AREAS OF EXPERTISE

**Consulting & Services:** Engineering, 3D Laser Scanning.



## Sea Shore Rosen Engineering Consultants



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<http://www.seashorerosen.com>

### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

**Specialists providing: consulting services in coastal and marine projects, design services for pipe laying and offshore structures, and environmental impacts assessments.**

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Sea Shore Rosen Engineering Consultants is a small, highly-skilled, and experienced engineering consulting firm in the fields of coastal, port, marine, and environmental engineering working in Israel and abroad. Rosen Engineering Consultants has over 44 years of professional experience and has led numerous coastal and marine studies and designs.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Sea Shore Rosen Engineering Consultants' services include:

- Consulting, designing, and supervising of marine and coastal projects related to pipe laying and offshore structures.
- Assessing and mitigating environmental impacts.
- Assisting with the prevention of erosion and liquefaction.
- Designing and selecting mooring, fendering, and anchoring systems.
- Providing analysis of moored-ship behavior and operability.
- Analyzing the forces on fixed and floating bodies, both above water and submerged.

Rosen was selected for providing: a second-opinion assessment to Technip Kti SpA, Italy for the pipe laying from El-Arish to Ashkelon; a marine currents climate characterization for Noble Energy Mediterranean for its landing site off Dor, Israel; and consulting services to the Israel Natural Gas Authority on the damage to the gas pipeline from Ashdod to Hadera.

### AREAS OF EXPERTISE

**Consulting & Services:** Engineering, Environmental.





## SeArc Ecological Marine Consulting

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Providing ecological marine consulting, baseline and post-drill surveys, environmental impact assessments (EIA), and permitting services.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

SeArc (Seascape Architecture) is a multi-disciplinary marine environmental consulting firm operating internationally in a wide variety of marine ecosystems. The company was founded with a novel vision of bridging development and sustainability. SeArc's scientists have extensive experience consulting on, executing, and monitoring a wide variety of environmental services including: environmental assessments, ecological and biological consultations, permitting services, baseline surveys, water quality and light penetration monitoring, sediment analysis, benthic invertebrate surveys, fish surveys, monitoring and mapping submerged aquatic vegetation (SAV), increasing the ecological, biological, and eco-social value of urban marine infrastructure, applying principles of ecological engineering to marine infrastructure, seascape management – controlling faunal/floral assemblages on urban marine structures, and environmental mitigation – reducing anthropogenic impacts on the natural surroundings.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Some of our offshore experience includes:

- Aphrodite 2 Well Site (1700 m): Scientific consulting for EIA report, representation and negotiation of ecological aspects with local authorities (MEP and MEW), preparation of discharge permit, and ongoing ecological consulting during the drilling operation regarding discharge sampling, baseline surveys, reports, and a post-drill environmental survey.
- Yam Hadera Well Site (900 m): Baseline surveys and reports (A to Z service).
- Port of Haifa (0 – 40 m): Baseline monitoring for the expansion plans, environmental impact monitoring of the work to deepen the harbor entrance channel.

### AREAS OF EXPERTISE

**Consulting & Services:** Environmental.



## SeismicCity

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

SeismicCity provides seismic imaging services, focusing on the execution of accurate and reliable model building and depth imaging projects.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

SeismicCity is dedicated to the development and implementation of seismic imaging technology. The company's objective is to construct and deliver the most reliable depth migrated seismic data for its clients. SeismicCity's developments include the newest imaging algorithms, such as anisotropic Reverse Time Migration (RTM) and multi-azimuth Kirchhoff summation Prestack Depth Migration. SeismicCity's proprietary imaging algorithms are used for both model building and final imaging and are commonly used for both prospect generation and planning.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

SeismicCity's model building and depth imaging services include the three components needed for a successful depth imaging project: advanced depth migration algorithms, accurate velocity analysis and model building tools, and data analysis and simulation workflows.

Our staff uses the most advanced depth imaging technologies. These include the newest depth imaging tools such as anisotropic model building and anisotropic depth imaging. We also provide full wave equation simulation for data analysis.

SeismicCity's tools include proprietary algorithms as well as commercial software packages. This enables us to provide the best available solutions in processing, interpretation, and depth imaging:

- Accurate model building for depth imaging.
- Simulation for data analysis and acquisition design.
- Anisotropic parameter estimation and anisotropic Prestack Depth Migration.
- Interpretation and modeling of complex geological structures.
- Pre-processing and data preparation for depth imaging.

### AREAS OF EXPERTISE

**Consulting & Services:** Seismic Imaging.



## SenseCy Cyber Intelligence

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Stay one-step ahead of hackers with SenseCy's cyber threat intelligence (CTI) suite for industrial control systems.

### COMPANY PROFILE (Company Stage – General: INTIAL REVENUE)

Established in 2014, SenseCy is a cyber threat intelligence (CTI) provider based in Israel. Through the use of deeply embedded virtual entities on adversaries' platforms (Deep Web, Darknet, closed forums, etc.), SenseCy collects valuable information and turns it into actionable intelligence. Recent years have seen a worrying increase in cyber campaigns targeting ICSs and organizations related to critical infrastructures. By infiltrating exclusive online platforms, we learn valuable information about hacker activities and hacking trends. This provides important insights about current and future threats to critical infrastructures.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

Many incidents in the cyber world are discovered months to years after they occur, and usually by outside entities. Knowing more about adversaries and their methods can make the difference between prevention and learning about the incident from the media, after the fact. SenseCy's services include:

- Tailored CTI service with 24/7 intelligence monitoring, threat alerts, intelligence reports, relevant IOCs, and more.
- Reports on threats to the client's critical infrastructures.
- Intelligence-based risk assessment report (baseline report).
- VIP monitoring & Web exposure research.
- Detection of leaks of confidential information to Darknet platforms.
- Documentation of adversaries' tools and methods of operation.
- In-depth reports on selected subjects (e.g. threat actor profiles, dedicated hacking tools).

### AREAS OF EXPERTISE

**Safety & Security:** Industrial Cyber Security.



## Sensoleak

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Sensoleak offers the ELDS™ - Early Leakage Detection System, an innovative breakthrough solution designed for the oil and gas industry needs.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Sensoleak has developed a system for prediction and diagnostics of evolving failures in mechanical parts. The diagnostic system is based on a statistical algorithm that processes data obtained from sensors installed on the diagnosed mechanical part. Whenever the algorithm receives sensor data, it calculates the “system health grade” (HG), makes a decision concerning system normality and outputs alerts as necessary. These alerts are delivered to the equipment’s operators in any form specified or required by the client. Our system can be applied a range of mechanical parts, including pipelines, engines, turbines, compressors, and pumps.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

Sensoleak's ELDS™ have been applied in oil and gas and water operating companies in Israel as well as in Europe. Our system successfully monitors their pipes, prevents leaks, and alerts on other formulating malfunctions as well.

The main advantages of the ELDS™:

- The system reports evolving failures long before the emergence of real ones.
- The system's self-learning algorithm adapts to changes in the environment and does not require any human intervention.
- A low rate of false alarms made possible through the use of explanatory variables.
- The ability to acquire and process data from several types of sensors, such as acoustic, seismic, electromagnetic, mechanical, chemical, thermal, etc.
- Scalable software - no need to install additional sensors or equipment.
- 24/7 online operations with no need for calibration even after unreported changes in the system's operating conditions.

### AREAS OF EXPERTISE

**Monitoring & Control:** Industrial Internet of Things.



## Sky Sapience

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

24/7 autonomous, mobile, aerial monitoring for long pipelines, offshore rigs and platforms, and secured perimeters.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Sky Sapience's flagship product, the HoverMast-100 tethered hovering machine, enables stable, real-time surveillance in all weather conditions. Designed especially for small vehicles, its size-to-payload ratio is exceptional. It is able to carry any payload up to 6 kg such as E/O, radars, relays, etc. Autonomously rising to heights of up to 50 meters within 15 seconds, the HoverMast is secured by a cable serving as a power supply and wideband data link.

Whether your mission is securing your borders, providing crowd control at a political rally or increasing security at your local electricity plant, Sky Sapience's HoverMast-100 tethered hovering machine combines engineering genius and innovative materials to provide exceptional observation and surveillance capabilities.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEVELOPMENT)

Currently under development, the HoverMast-Exo will be a stabilized, seaborne HoverMast that will be especially suited for maritime applications, offshore activities, and port security. Enhanced with advanced materials and coatings, the HoverMast-Exo will be able to withstand extended periods in harsh maritime environments.

### AREAS OF EXPERTISE

**Safety & Security:** Unmanned Aerial Systems.



## SolEx Water

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

SolEx Water enables the reuse of up to 95% of O&G industry wastewater, drastically reducing treatment and management costs.

### COMPANY PROFILE (Company Stage – General: R&D)

SolEx Water has developed a technology for treating the oil and gas industry's wastewater. The technology is adaptable to various wastewater compositions, to different oil and gas production sites, and to different requirements for the recovered water. Our work so far has focused on fracking flowback and produced water of about 30,000 ppm TDS and on blowdown streams of SAGD operations.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEVELOPMENT)

The SolEx Water WET™ process is solvent extraction-based and employs a non-toxic and widely used industrial solvent, which is fully recyclable and can be made from renewable resources. The WET™ process is laboratory proven and uses common, off-the-shelf equipment.

### AREAS OF EXPERTISE

**Water & Environment:** Chemical/Catalytic Water Treatment, Water Separation Systems.



## SparkBeyond

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

SparkBeyond has an automated research engine designed to leverage large amounts of web data, augment your own data, and discover complex patterns.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

SparkBeyond has built an AI-powered research engine, capable of finding complex patterns in data by understanding its meaning. Operating at the intersection of data science and artificial intelligence fields, the technology we developed is already being used by Fortune 1000 energy companies around the world. Data is analyzed from every angle, bombarded with billions of hypotheses, tweaked on every dimension, and squeezed to the max - to surface hidden possibilities and complex patterns.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

The Discovery Platform combines state-of-the-art artificial intelligence technology with large-scale computing to accelerate the discovery of breakthroughs hidden in the data. Previous prediction models created for a global energy company DEMONSTRATIONd the fastest turnaround time and showed 30%–40% greater accuracy, as compared to other methods of prediction. SparkBeyond is now powering the customer's Unconventional Resource Development Optimization (U-RDO) research team, which is responsible to improve the understanding of expected well productivity throughout the company's locations worldwide.

SparkBeyond's Discovery Platform is an interactive, cloud-powered solution, designed to surface hidden patterns in data (e.g. predicting the performance of hypothetical new wells). The Discovery Platform has an insatiable thirst for data, fueled by the "everything may be relevant" approach cultivated within the company. The AI-powered research engine distills potent insights from an ocean of information so you can make the best-informed decisions possible. Two elements of SparkBeyond's technology that are most relevant to the oil and gas industry:

- The pattern discovery technology is designed to search through a vast number of hypotheses and formulas by leveraging high performance compute clusters.
- The dynamic machine-learning model automatically integrates and incorporates more production data from a variety of data points - new wells as they come online, recent production values, new active operators, as well as with environmental factors such as weather and agriculture data.

### AREAS OF EXPERTISE

**IT & Communications:** Big Data & Analytics.



## Steadicopter

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

A low-altitude aerial inspection platform.

### COMPANY PROFILE (Company Stage – General: R&D)

Steadicopter's rotary UAV-based products can monitor and inspect oil and gas pipelines by flying and hovering at low altitudes with special camera sensors. The footage is sent in real-time to the ground operator for editing and assessing the pipe's condition. Furthermore, Steadicopter's rotary UAVs can be used for monitoring the security of pipelines and their surroundings.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

Steadicopter has developed and produced the Black Eagle 50 Unmanned Aerial System (UAS). The Black Eagle rotary UAVs take off, hover, fly, and land fully autonomously. The system was designed to meet with civilian and military requirements.

The ability to hover and move in all directions (position trimming) gives the ground viewer more time and makes scanning and tracking objects easier.

Steadicopter's Black Eagle 50 can also be used for the security needs of oil and gas installations. The system is compact and has a quick launch and retrieval time with a flight duration of three hours.

### AREAS OF EXPERTISE

**Safety & Security:** Unmanned Aerial Systems.



**Strauss & Co.****Contact Person:** Strauss, Ido**Position:** Marketing Manager**Email:** ido@strauss-co.com**Phone:** +972-9-7461631**Fax:** +972-9-7461636**Address:** P.O. Box 2521, Raanana 4336363<http://www.strauss-co.com>**VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY**

**Strauss manufactures high-quality diamond burs and reamers used in the production process of small to large diameter matrix drill bits.**

**COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)**

Strauss has been manufacturing high-quality electroplated and vacuum brazed diamond and CBN tools since 1970. Today, Strauss sells to over 50 countries via our global sales organization, which keeps track of the latest innovations, developments, and materials in the cutting and grinding fields with super-abrasive products. We are dedicated to developing new cutting edge products with the highest quality.

The company is ISO 9001:2000, ISO 14001, and ISO 13485 certified.

Strauss & Co. consists of 3 divisions:

- Industrial Diamond & CBN Tools – tools for grinding, cutting, filing, and polishing a variety of metals and composites – files, pins, and wheels.
- Dental Rotary Instruments – dental burs for dentists – multi-use burs and pre-sterilized single use burs to suit every use. Our dental tools meet rule 93/42 EU and are FDA & CE certified.
- Vacuum Brazed Diamond & CBN Tools – production of custom-made profile tools for the ceramics, metalworking, and composite materials markets.

**PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)**

For the oil and gas industry, Strauss manufactures high-quality diamond burs and reamers used in the production process of small to large diameter matrix drill bits.

Our tools offer superior performance both in the quality of the grinding and in the lifetime of the burs when compared to the current items in use in the PDC drill bits manufacturing process. The burs are competitively priced.

**AREAS OF EXPERTISE**

**Engineering & Construction:** Diamond Tools.



## StreamBooster



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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

StreamBooster is a leader in the development and manufacturing of small and micro turbines powering smart network active elements and energy recovery devices.

### COMPANY PROFILE (Company Stage – General: SEED)

The StreamBooster is a breakthrough smart turbine to convert fluid power to electricity. The unique and innovative core technology provides a competitive, cost-effective solution for the growing needs of renewable energy production and has applications for run-of-the river hydroelectricity, tidal currents, wind, and industrial streams.

The StreamBooster design has been optimized to maximize energy production while minimizing infrastructure requirements, costs, and environmental impact.

StreamBooster's turbines are installed at two pilot industrial and utility sites, including at one of the largest wastewater treatment plants in Israel.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

Streambooster's unique and patented turbines can be manufactured at any size using unique 3D printing technology and methods and can fit into oil and gas delivery pipes. They can be used to power any smart network elements such as: automatic meters, remote cameras, remote pressure sensors, etc.

The turbines' constant power supply allows the installation of higher-power and higher-accuracy network elements that transmit information at shorter intervals. This is achieved without the need for frequent and expensive battery replacements.

StreamBooster's turbines can also be installed as a replacement for PRV for energy recovery.

### AREAS OF EXPERTISE

**Engineering & Construction:** Micro Turbines.



## Teldor Cables & Systems

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Teldor Cables & Systems offers a wide range of onshore and offshore cable solutions.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

Teldor Cables & Systems, established in 1966, designs and manufactures over 6,500 different types of cables for a wide range of applications including both onshore and offshore installations. The cables are approved by DNV/ABS/LLOYDS/RMRS and certified by 3rd-party independent testing laboratories to meet all relevant international standards. All of cables are supplied with unique cross-linked, flame-retardant, low-smoke, zero-halogen jacketing materials. Many of our cables meet the stringent IEC 60331 flame test for circuit integrity for use in "Mission Critical" applications.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Teldor's range of DNV-GL/ABS/LLOYDS/RMRS Certified Offshore Cables:

- Teldor's Twisted-Pair Data Offshore Cables: these cables are fully compliant with the IEC 61156 standards. Teldor's BUS and Industrial Ethernet Offshore Cables: whether you require CanBUS, FieldBUS, InterBUS, DeviceNET, or RS-485 cables with any shielding or armoring option and varying pair counts, Teldor Cables & Systems is your "one stop shop."
- Teldor's Instrumentation, Control & Signal Offshore Cables: covering the most extensive range available of conductors, lay-up, shielding, armoring, and voltage options.
- Teldor's FiberOptic Offshore Cables: our fiber-optic cables for indoor, indoor/outdoor, and outdoor use are for vital rapid communication and emergency systems that must remain operational during a fire for more than three hours.

### AREAS OF EXPERTISE

**Engineering & Construction:** Cables.

**TMNG****Contact Person:** Goshen, Neta**Position:** Business Development Manager**Email:** NetaG@tmng.co.il**Phone:** +972-3-6924444**Fax:** +972-3-6924488**Address:** 5 Arik Einstein, Or Yehuda 6037505<http://www.tmng.co.il>**VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY**

TMNG is a leading natural gas EPC company serving as a one-stop shop for natural gas and oil-related projects.

**COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)**

TMNG is a subsidiary of TAHAL Group, a global engineering design and construction firm that ranks among the top companies of its kind worldwide. With four decades of engineering excellence in the oil conveyance field, and two decades of leadership in major milestones in the Israeli gas market, TMNG has been active in the development and consolidation of Israel's energy sector. We offer design & installation of transmission, distribution & storage infrastructures. We're a full EPC to diverse industries with solutions, offering high & low pressure systems. Our in-house experts have knowledge in all disciplines associated with construction of gas systems, including alternative fuels & gases, steam, fire extinguishing, electricity & control, and civil engineering structures.

**PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)**

Covering the full spectrum of services relating to conveyance systems, TMNG has achieved numerous accomplishments in downstream, midstream and upstream projects. TMNG is fully accountable for all phases: from conceptual planning, through design, purchase, management and construction, to full commissioning. The company works according to regulations and adheres to the most stringent standards in the industry, while teaming up with local partners to ensure that all necessary approvals are obtained. Examples of the company's achievement include:

- Planning of the Israeli master plan and conceptual plan for energy systems.
- Planning, designing and erecting 80% of Israel's transmission and distribution systems.
- Implementing solutions for connecting and converting power/industrial plants to natural gas.
- Implementing PRMS turnkey projects.
- Designing top-side systems for platforms.
- Conceptual planning for LNG plants.
- Technical permitting procedures and design of EMG offshore supply line from Egypt.
- Technical permitting procedures and design for installation of an LNG submerged turret offloading system and its connection to the transmission system as well as CNG installations.

**AREAS OF EXPERTISE****Engineering & Construction:** EPC.



## Tonson Labs

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Tonson Labs is a one-stop, innovative, and experienced leading R&D center specializing in cutting-edge technological solutions applicable to the oil and gas industry.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Tonson Labs provides a wide range of electronics, software, and engineering services – all the way from concept and system design to development and manufacturing.

Tonson Labs works in the following fields: video, voice, RF, acoustics, analog, and power using the most advanced core technologies – Multicore (ARM), DSPs, DaVinci, micro controllers (ARM, ATMEL, MSP, CYPRES), FPGA, Chip-On-Board (COB), embedded Linux, and more.

Some of the areas we have experience in are:

- Real time video and video analysis (see through oil).
- Motion and control systems.
- Electro-mechanical: embedded and computerized systems.
- Acoustics and RF communications systems.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

As the oil and gas industry encounters more obstacles in extreme temperatures, high or low, we at Tonson Labs can provide detection systems for such environments. Our ability to design innovative and sophisticated detection and measurement tools can enable preliminary detection and measurement reading.

Possible solutions for the oil and gas industry include:

- Ultrasound scanning.
- Real-time imaging.
- Signal processing.
- Acoustics.

### AREAS OF EXPERTISE

**Consulting & Services:** Lab/R&D.



## Top I Vision



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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

**Airborne surveillance for security enhancement.**

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Top I Vision develops and manufactures high-performance tactical surveillance systems for customers throughout the world.

In an age of rapid and dynamic events, where intelligence is vital, Top I Vision provides the ability to detect, gather, process, analyze, and effectively react in real-time.

Our objectives are to combine product excellence and cost-effectiveness with outstanding service and customer support, to deliver high-quality turnkey solutions, and to improve our customers' technological and operational capabilities within limited budgets.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

The Tactical Aerostat System (T.A.S.) is an advanced aerial surveillance system, based on super-light, stabilized electro-optic payloads, mounted on a small and easy to operate tethered helium aerostat (blimp). The T.A.S. is a very cost-effective real-time video sensor. It provides on-line aerial data, of high-quality video, both day and night. The units are mobile and can be quickly deployed. The Aerostat's trailer can be towed by a standard SUV/van and be prepared for takeoff in a few minutes.

The T.A.S. excels as a cost-effective solution, mainly due to its low helium consumption and the very small crew of only three operators required for operation. The proposed platform is a 30-foot long, tethered, low-pressure, helium aerostat. Operated at a low altitude of up to 500 feet (150 m), the T.A.S. complies with common air-traffic regulations worldwide. The T.A.S. is a mature, operationally proven system.

### AREAS OF EXPERTISE

**Safety & Security:** Unmanned Aerial Systems.



## Tortech Nano Fibers

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

We are manufacturing nonwoven mats and fibers based on ultra-long carbon nanotube (CNT) materials with unique properties (mechanical, thermal, electrical, and biological).

### COMPANY PROFILE (Company Stage – General: R&D)

Tortech Nano Fibers is a joint venture between Plasan, a specialist in armor and survivability solutions for the military and commercial market, and the company Q-Flo, a spin-off of the University of Cambridge. Tortech Nano Fibers manufactures carbon nanotube mats for wide range of unique applications such as EMI (Electromagnetic Interference) shielding, ultra-filtration conductive membranes, energy storage, armor, and heat management systems. Carbon nanotubes, combined with other materials such as carbon fiber, glass, and ceramics, provide innumerable solutions for a wide range of industries. The nonwoven carbon nanotube sheet has a high resistance to mechanical stress while also possessing properties such as electrical conductivity, high EMI attenuation, black body radiation, and IR suppression.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEVELOPMENT)

Our carbon nanotube materials can be customized for the oil and gas industry for use in filtration, oil/water separation, fiber sensing, fire protection, anti-bio-fouling, and more. Tortech Nano Fibers produces macroscopic (2 sq. meters), self-standing, non-woven mats made of ultra-long CNTs. Tortech's mats act as ultrafiltration (UF) membranes with microfiltration permeability having a combination of properties which make them ideal for oil-water separation. Such properties include: mechanical robustness, thermal and chemical stability, electrical conductivity, and inherent anti-biofouling. Several collaborations with the academia in Israel and Canada showed that Tortech's non-woven mats can act as scaffolds for oil-water separation with promising preliminary results that meet with the very strict criteria regarding produced water clarity. Other relevant applications are related to oil spills containment as Tortech's non-woven mats act as a scaffold for a smart "sponge".

### AREAS OF EXPERTISE

**Engineering & Construction:** Materials and Coatings.



## Totem Plus

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Totem Plus provides Integrated Monitoring, Alarm & Control Systems (IMACS) for vessels' engines and machinery and marine navigation systems.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Totem Plus has been developing ship automation and marine computerized applications since 1994. It is one of the pioneers in integrating several systems into one control system, and has an considerable installation record. Totem Plus has extensive experience with different systems including Engine Monitoring, ECDIS, BNWAS, BAMS, Voyage Data Recorder, Tank Gauging, Cargo Control, Loading Programs, and Hull Stress Monitoring. The final product includes unique features such as fault analysis and offline data analysis. Totem Plus's quality assurance is under the assessment of DNV ISO 9001:2000. All Totem Plus systems are fully approved by the classification societies.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Totem Plus automation and navigation systems are installed on hundreds of vessels including rigs, FSOs, FPSOs, OSVs, and USVs. Our solutions include:

- Navigation systems:
  - VDR 2014 complies with IMO 2014 regulations (MSC.333(90), approved as conning;
  - ECDIS including DST collision avoidance system;
  - BAMS mandatory for DNV OSV;
  - BNWAS;
  - Conning;
  - Mini VDR.
- Automation package IMACS - fully redundant integrated monitoring, alarm and control system for engines & machinery onboard ships. Hardware is based on COTS Siemens PLC. System includes: stability online before sailing and during voyage; LAN communication; zooming of mimics; remote access; office version.
- Big Data Analysis - correlations between sensors for any length of time; history analysis of data and alarms (multi sensor analysis); correlations of two different times; trending to view changing values over time; virtual sensors analysis.
- E-navigation Data Audit (EDA) - detects Near Miss scenarios from navigational data.

### AREAS OF EXPERTISE

**Monitoring & Control:** Marine Automation and Navigation.





## Tri-logical Technologies



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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Tri-logical provides a full solution for mobile asset management with the ability to monitor and remotely manage assets in real-time.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Tri-logical provides full solutions for managing and controlling mobile assets. Tri-logical is active in the aviation, railways, defense, and logistics arenas. We have vast experience in providing military grade devices and solutions that can be deployed worldwide and in harsh environments. Our solutions focus on real-time monitoring, control and diagnosis of remote assets, improving situational awareness, and safety and efficiency of operations.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEVELOPMENT)

Our technology uses a combination of GIS and real-time data from assets. All our solutions are based on a combination of command and control systems with ruggedized devices that are suitable for harsh environments. The solution enables remote real-time monitoring of any type of equipment, mobile, or stationary. The solution can be deployed anywhere in the world based on cellular or satellite communication. Each device can be integrated with multiple sensors. The solution includes access control and a licensing module to prevent unauthorized usage of equipment.

### AREAS OF EXPERTISE

**Monitoring & Control:** GIS Traceability Systems, Industrial Internet of Things, Instrumentation and Devices.



### Triple Plus+

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Triple+ offers an IoT solution integrating wireless, battery operated gas and water valves that automatically shut off whenever risky events such as leaks occur.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Triple+ is an innovative leading manufacturer of products and services within the IoT arena. Triple+ offers solutions for averting property damage, injury, and financial losses due to gas and water leaks.

The company's line of products is based on its own proprietary technologies, includes automatically shut off water and gas valves whenever risky events such as leaks are detected or when people leave buildings unattended. We help our customers to increase operational efficiencies, improve safety, and prevent damages.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

The Triple+ CLM™ system detects and prevents gas leaks. When the leak is detected, the system disconnects the gas supplies, wirelessly activating the Shut Off unit. Each installation can include up to 6 detectors and a Shut Off unit. Our sensors, which we calibrate in our factory, can detect LPG, NG, CO, etc.. In case of detection, sensor malfunction, or power failure, the gas Shut Off unit can be activated.

### AREAS OF EXPERTISE

**Monitoring & Control:** Industrial Internet of Things.



## TSG IT Advanced Systems

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

TSG's field proven homeland security solutions maximize safety and security while minimizing threats.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

TSG is a global company, held by Ness Group, specializing in the integration of advanced command and control solutions for real-time military and civilian defense, homeland security, and telecom applications. We provide our clients with technological solutions ranging from emergency management and CBRN systems to rescue and special operations and smart/safe city solutions. Our range of solutions is wide, but our goal is focused – maintaining safety and security in the homeland.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEVELOPMENT)

Our solutions for the oil and gas industry include:

- TSG's Cyber Security Center (CSC) protects organizations in the finance and energy sectors from cyber-attacks and utilizes innovative technology that incorporates command and control, intelligence, and monitoring capabilities to ensure business continuity for our customers.
- We offer a variety of security reviews such as security health check, vulnerability assessment, penetration tests, and "red team".
- TSG's emergency management solution is a multi-tier C2 system, connecting the main emergency operations center with all other teams and units, from emergency medical services to resource management teams, and from mobile rescue units and first responders to tactical forces and other authorities.

### AREAS OF EXPERTISE

**Safety & Security:** Consultancy, Industrial Cyber Security, Integrated Solutions.



## Tungsten Powder Technology

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

TPT develops materials for shaped charge liners to improve the performance of oil perforators.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

TPT is an engineering company with 40 years of experience working with tungsten-based materials and fifteen years of experience developing new processing technologies, powders, and tungsten-based compositions for shaped charge liners to improve down-hole perforation for the oil industry.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Our products are based on powder metallurgy technologies. We contribute to the work of oil perforators worldwide by developing superior compositions for deeper and cleaner penetration holes according to API standard 19B. Our main cone compositions are based on high-density tungsten alloys, copper-coated tungsten powders, lead-free alloys, and reactive compositions. Each of our compositions is based on special powder development for optimal processing. We use new consolidation methods to develop effective jetting. Our engineering ability provides the best design and optimal match for the specific processing technology which is being used by our client.

### AREAS OF EXPERTISE

**Engineering & Construction:** Materials and Coatings.



## Turbulent Technologies



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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Turbulent Technologies reduces OPEX and CAPEX by improving oil/water separation using turbulence to optimize the drop size distribution.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Working at the confluence of hydrodynamics, physics, and chemistry, Turbulent Technologies' patented "Turbulent Mixing" technology is applicable to many conventional industries and industrial plants, quickly demonstrating operational and capital cost savings for customers.

"Turbulent Mixing" augments conventional solutions to dramatically improve the separation of liquid/liquid emulsions, even in the presence of solid contaminants. It is applicable to a wide range of industrial processes, including the energy, petroleum, chemical, mining, food oils, and pharmaceutical industries.

Our technology is commercially deployed at industrial scale in large copper SX plants.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

Turbulent Technologies' proven "TT" technology has applications in the petroleum production and refining industry including: desalting, wellhead oil/water separation, and downstream treatment of produced water.

By adding a compact TT vessel, or using a TT static mixer in front of the existing separation equipment, significant improvements in separation performance and speed are achieved, and flow rates can be increased. No additional chemicals are required, and typically no changes are made to the existing process.

Some of the advantages of our systems include:

- Desalting: Replace the mixing valve and achieve a reduction of over 50% in the salt content of the crude, or double the throughput of the desalting line.
- Improved oil/water separation for offshore and onshore platforms and wellheads.
- Reduced footprint of separation equipment, while meeting discharge standards.
- Reduce losses of injected diluent due to flashing.
- Treat process water for discharge or reuse, reducing the non-settling fraction by an order of magnitude.

### AREAS OF EXPERTISE

**Water & Environment:** Water Separation Systems.



## Tzinorot

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Tzinorot develops and manufactures steel and plastic pipes, internal linings, and external coatings and supplies various services to the O&G industry.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

Founded in 1951, Tzinorot is Israel's largest steel pipe manufacturer. Tzinorot develops and manufactures internal linings, external coatings, and various steel and plastic pipes. The company's products are implemented in water, sewage, and oil and gas infrastructures. In addition, the company offers galvanization services.

Tzinorot manufactures and markets steel pipes ranging in diameter from 3 to 100 inches, which are, according to their intended use, lined internally and/or coated externally, mainly by three-layer extruded polyethylene and polypropylene to improve corrosion-resistance. Tzinorot holds 71% of the shares in Plassim, which manufactures and markets plastic pipes made of polyethylene, PVC, and polypropylene.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Tzinorot has extensive experience in the production of oil and gas pipelines and offers a wide range of steel pipes, plastic pipes, accessories, and services according to leading international quality standards (API5L). In addition, Tzinorot offers the following services:

- Storage: two facilities with a total capacity of 330,000 m<sup>2</sup> of storage.
- X-ray testing: state-of-the-art X-ray system testing steel products up to 120" diameter, 14 m long.
- Internal pipe cleaning and painting of pipes up to 120" diameter.
- Galvanization: Hot Dip Galvanization (HDG) factory with HDG kettle dimensions of 12.5 m long, 1.5 m wide, and 2.5 m deep.
- Experienced field team: supporting customers from project design through the manufacturing process to installation and post-installations services.
- Metallographic lab testing: using Charpy Notch broaching machines, digital comparators, spectrometers, and more to perform tension tests, the Charpy impact test, the Vickers hardness test, etc. in order to determine yield strength, tensile strength, elongation, chemical composition, and more.

### AREAS OF EXPERTISE

**Engineering & Construction:** Piping and Tubulars.



## Underwater Technologies Center



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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

UTC has developed a unique platform for underwater divers' communication networks.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Underwater Technologies Center Ltd. (UTC) is an Israeli company specializing in the development and production of advanced communication and imaging technologies for high-end industrial and commercial applications in the underwater environment.

Its revolutionary UDI systems are the world's first to integrate two-way digital messaging technology, SOS and homing capabilities, a state-of-the-art dive computer, and a 3D compass for a complete underwater system that lets you share, connect, and stay safe.

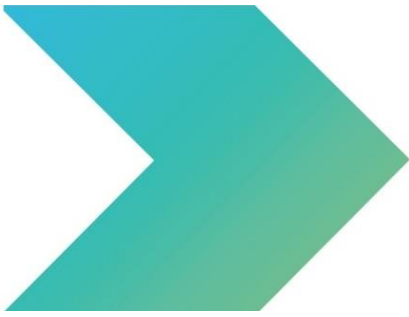
### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

The UDI-28 wrist and boat units meet the requirements of divers operating in offshore oil and gas facilities. The new-architecture UDI-28 is the most advanced underwater communication system and has the following advantages:

- Two-way communication using up to 28 preset text messages.
- Ability to communicate both with the boat unit and with any other diver in the same network.
- Enhanced safety and reliability.
- Prompt handling of in-water emergencies.
- Diver-initiated or remotely initiated SOS signals.
- Ability to locate a lost diver by homing beacon.
- A 3D digital underwater compass.
- Support for up to 28 divers in a network.
- Connectivity at depths of up to 70 meters/230 feet and an overall range of up to 1,000 meters/3,280 feet.
- Compact and lightweight wrist units.
- Robust, water-resistant and energy efficient boat units.
- Programmed through a PC interface.
- A long-lasting rechargeable battery.

### AREAS OF EXPERTISE

**IT & Communications:** Communication Technologies and Systems.



## Universal Environmental Technology



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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

UET offers chemical-free water treatment technology to achieve superior results, water conservation, and chemical reduction.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

UET has developed, installed, and successfully implemented more than 4,000 water treatment systems. UET's products are based on a mathematical algorithm in the field of chemical engineering for the production of a process unit composed of a green reactor and settler (Green Machine). The calculated amount of scale, corrosion products, and biocide are produced in the UET's reactor and settled in the UET's settler.

UET has vast experience in water treatment addressing the following challenges: scaling in water systems, corrosion and heavy metals removal, biocide control, and suspended solids filtration. Our solutions address all of these challenges without using chemical additives while conserving water.

Applications of UET systems may be in cooling towers, process water, water recycling projects, and more.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

List of chemical free products and applications:

- UET CT – for cooling tower water treatment.
- UET D-GO – for disinfection of various water systems.
- UET-GO – for green oxidation and removal of heavy metals.
- UET-RO – reverse osmosis applications.

### AREAS OF EXPERTISE

**Water & Environment:** Chemical-free Water Treatment.





## Vayyar Imaging



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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Vayyar develops low-cost 3D imaging sensors based on RF or multi-antenna radars that can see through and model a variety of different materials.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Vayyar sensors look into objects using technology that passes through known barriers and creates highly sophisticated images. They could be applied to a range of different uses, such as breast cancer detection, in-wall imaging, particle detection in production lines, and more.

The main characteristics and advantages of Vayyar sensors are:

- Mobile 3D imaging – can make every cellphone or tablet a full 3D imaging system.
- Compact and low-power – compact, low-power, and lightweight, making imaging available anytime, anywhere (=1% transmit power of a cellular call).
- Safe and fast operation – non-ionizing radio transmissions, scanning objects for a few seconds.
- Better detection – operates in dark, foggy, and smoky areas for better detection of anomalies in the examined objects.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

Our technology is relevant to the oil and gas industry in several ways. Its uses may include:

- Identifying soil contaminated with oil or other liquids and differentiating between liquids (e.g. petroleum vs. water).
- Detecting changes in nearby soil formation at excavation sites and direct digging.
- Detecting leaks in metallic or non-metallic pipes.
- Identifying liquid flow in non-metallic pipes.
- Sensing changes in liquid formation (e.g. spotting water in oil, contaminated water).

### AREAS OF EXPERTISE

**Monitoring & Control:** 3D Imaging Sensors.



### Vidisco



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#### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Vidisco offers portable digital radiography systems for NDT inspections of pressure vessels such as pipes, boilers, and valves.

#### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

Vidisco is a leading provider of state-of-the-art portable X-ray inspection systems. Our digital radiography systems are based on amorphous silicon imagers (DDA), and we are the only company to truly utilize this advanced technology in portable products. Our systems are designed for dual use NDT applications in the field and in the laboratory. An excellent SNR, a 14-16 bit dynamic range, and high resolutions ensure that our systems generate the highest quality images in the market.

#### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Vidisco's cutting-edge, portable, digital X-ray systems are widely used in the oil and gas industry, mostly in the downstream sector but also in the upstream sector. Digital radiography technology delivers highly efficient solutions for inspecting pressure vessels (pipes, boilers, valves) according to international standards (ASME, API).

Vidisco's DR systems offer immediate, high quality, high contrast X-ray images for use during service operations or even in the manufacturing process. Digital radiography can easily reveal not just corrosion and erosion, but also precise measurement of a pipe's wall thickness and weld quality.

#### AREAS OF EXPERTISE

**Monitoring & Control:** NDT Technology.



## Waterfall Security Solutions

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Waterfall Security Solutions produces hardware-enforced, stronger-than-firewall unidirectional security gateways and related products.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

Waterfall is the leading provider of hardware-enforced, stronger-than-firewall network security products protecting the safety and the reliability of industrial control system networks. Waterfall's best-in-breed unidirectional security gateways and related products are deployed in oil and gas installations and other critical national infrastructures throughout North America, Europe, Asia, and the Middle-East and include support for OSIsoft PI servers, GE's Proficy Historian and OSM offerings, Schneider Electric's ClearSCADA, and many others.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Waterfall's unidirectional security gateways replicate database servers and industrial devices to incorporate networks across unidirectional hardware. No virus, botnet, or remote control attacks, however sophisticated, can propagate across the unidirectional hardware back into protected industrial networks. This means that unidirectional security gateways do not suffer from the many, well-known security vulnerabilities which often accompany firewall deployments. Waterfall's FLIP™ product is a full unidirectional security gateway whose orientation can be controlled manually or by a timer. The FLIP™ provides sites which require the stronger-than-firewall protection of a unidirectional security gateway with disciplined and controlled transfers of data, such as routine anti-virus signature updates, back into protected networks. Waterfall's many other unidirectional products support even complex communications needs such as remote vendor support and industrial protocol data exfiltration prevention.

### AREAS OF EXPERTISE

**Safety & Security:** Industrial Cyber Security.



## WaterMatic

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

WaterMatic offers water treatment systems designed to meet strict O&G production standards for both onshore and offshore applications.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Watermatic specializes in the design, manufacture, installation, operation, and maintenance of advanced water and wastewater treatment systems.

The company provides complete turnkey solutions.

WaterMatic supplies robust and reliable water treatment systems and services to ensure a long-lasting service life, as well as to meet environmental regulations.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

WaterMatic employs specialists in the design and construction of water treatment plants for injected water and produced water in the upstream oil and gas industry.

Some of the treatment technologies we are using include:

- Aerobic and anaerobic wastewater treatment systems.
- Smart clarifiers.
- Dissolved Air Flotation (DAF).
- Ion exchange.
- Media filtration.
- Membrane Bioreactor (MBR), Sequencing Batch Reactor (SBR), and Moving Bed Bioreactor (MBBR).
- Desalination by reverse osmosis.
- Oxidation and disinfection treatment.
- Ultrafiltration (by ceramic and polymeric membranes).

### AREAS OF EXPERTISE

**Water & Environment:** Turnkey Solutions.



## WaveIP

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

WaveIP offers rugged and reliable broadband wireless networks for mission critical applications, well-suited for oil and gas industry applications.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

WaveIP is a technology leader of Point-to-Point and Point-to-Multipoint Broadband Wireless solutions in the sub-11 spectrum.

WipAir series is WaveIP's powerful field-proven wireless solution providing unmatched reliability and excelling in all important features that define a solid and future-proof solution, in both licensed and unlicensed bands.

WipAir guarantees stable and rugged wireless networks via its unrivaled interference rejection technologies. With 1000 Mbps net capacity and ultra-low latency, WipAir is optimal for mission critical applications, public safety, oil and gas, and carrier-class IP networks.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

WaveIP's powerful broadband wireless solutions, with an unmatched reliability, rugged design, and interference rejection technology, are well-suited to address the communication needs in the oil and gas industry.

WipAir 8000 ACE highlights:

- 1000Mbps net throughput.
- 256QAM & 80MHz channel bandwidth.
- Unrivaled interference immunity and cutting-edge Adaptive Coding & Modulation.

WipAir 8000 MIMO highlights:

- 310Mbps net throughput.
- Best latency - 1ms typical.
- 400,000 packets per second.
- PTP and PTMP in the same radio.
- TDD/FDD – software configurable.
- Configurable channel – 5/7/10/14/20/28/40/50 MHz.
- <7Watt power consumption.
- Versatile RF solution @ 700MHz, 900MHz, 2.0-2.3GHz, 2.3-2.7GHz, 3.3-3.8GHz, 4.8-6.0GHz, 6.0-7.0GHz, 7.0-8.0GHz, 10.0-10.7GHz, 10.7-11.7GHz.

### AREAS OF EXPERTISE

**IT & Communications:** Communication Technology and Systems.



## WeldObot

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

WeldObot offers the O&G industry the WOB – a fully automated orbital welding robotic system, and the Super-MIG® – an innovative hybrid welding system.

### COMPANY PROFILE (Company Stage – General: R&D)

WeldObot is developing and marketing a variety of innovative welding solutions. WeldObot's product line includes:

- The Super-MIG (S-MIG) – a patented hybrid systems combining powerful plasma with GMAW arc in one torch. S-MIG's range of systems provides users a full welding solution for most metal & alloys, joint configurations, applications, and thicknesses.
- The WOB 101 – a patent pending smart robotic pipe welding system which dramatically increases pipe welding throughput. The WOB101 is easy to install, has a unique tracking system, and can weld large diameter (e.g. 100" ) with Butt or overlap joints.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEVELOPMENT)

Both the Super-MIG® hybrid systems and the WOB101 are applicable to the special needs of the oil and gas industry, and can offer the user significant advantages, resulting in:

- More than x2 increase of welding speed and productivity.
- More than x2 increase of welding penetration depth at improved quality.
- Enables penetration welding of overlap joints with no access holes.
- Almost no grooving or edge-preparation is required.
- Dramatically reduced distortion of work-piece: no need of post-weld treatment or surface-cleaning.
- Dramatically reduced weld-spatter and use of filler wire.
- Increased potential of use in new materials and challenging applications.
- The final result is a very significant reduction in the welding cost per piece and per Inch/Cm.

### AREAS OF EXPERTISE

**Engineering & Construction:** Welding and Grinding Tools.



## WellToDo

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## VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Removal of water contaminants without generating any brine or byproducts.

## COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

Our core technology is used for the production of catalysts and in the design and fabrication of water treatment systems used to convert common water contaminants to non-polluting compounds. The main advantage of this method is the removal of contaminants without generating any brine or byproducts. The method is applicable for nitrates, selenates, perchlorates, hexavalent-chromium, and organic compounds. The system for the removal of organics from water has a small footprint and uses low-temperature air as an oxidizer to convert organics to CO<sub>2</sub> and water. This is perfect for off board water discharge.

## PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEVELOPMENT)

Products for the oil and gas industry include:

- A system to reduce hexavalent-chromium to elemental chromium as a way to treat refinery wastewater. Cr<sup>6+</sup> is reduced to elemental chromium using hydrogen and a proprietary catalyst developed by WellToDo. Chromium is then filtered out of the water.
- A system to remove organic contamination from water for off-board water discharge on oil rigs. Organic compounds are oxidized over dedicated catalysts with low-temperature air. The system is compact, consumes little energy, and does not require storage of oxidizing materials.

## AREAS OF EXPERTISE

**Water & Environment:** Chemical/Catalytic Water Treatment, ZLD Solutions.



## WonderLogix

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Improve your production, minimize downtime and boost your facilities' documentation using the revolutionary tool for designing control systems.

### COMPANY PROFILE (Company Stage – General: R&D)

WonderLogix is a start-up company focused on changing the way control systems are designed, implemented, tested and documented today. Our generic software platform, WonderLogix Studio, is easy to learn and contributes high value from its very first use. Process engineers in the O&G industry, who design automated facilities, from small units to large oil or gas stations, can have full control of their facilities' operation thanks to automatic conversion of their designs to controller code. As a bonus, they receive complete textual documentation out-of-the-box.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

WonderLogix brings fresh innovation to a field which hasn't changed much in 30 years. Its unique patented technology combines proven principles of software engineering with the company's own innovation. It is a software platform designated for process and control engineers, who design new facilities such as oil/gas/water facilities, compression stations and practically any facility designed to be controlled by a PLC. Using our methodology, complex processes are divided into small, manageable pieces. Defining the facility's logic of operation is done using sentences in plain English: these sentences are later gathered automatically to create detailed documentation which is understood by all personnel of the project. Finally, all the definitions are automatically converted to PLC code, eliminating the rickety interface between process and control engineers. The result – faster implementation, shorter commissioning, less risks and damages to equipment, and fully documented operation.

### AREAS OF EXPERTISE

**IT & Communications:** IT/Software.





## Y.W. Galil Engineering

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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Galil Group provides engineering, procurement, construction (EPCM), and project-management services in diverse industries, including in the O&G sector.

### COMPANY PROFILE (Company Stage – General: REVENUE GROWTH)

Galil Group, established in 1984, is one of the largest engineering companies in Israel, employing nearly 400 experienced engineers and technicians in the design and construction of large scale industrial projects.

Galil Group provides its services on an EPCM or turnkey basis, in a wide range of sectors and disciplines: oil and gas, petrochemicals, chemicals, semi-conductors, bio-tech, hi-tech, environment, industrial piping, instrumentation and process control, electrical, water and wastewater treatment, and more.

It offers a wide range of services including: project management, engineering design, procurement, construction management and supervision, and turnkey projects (locally and abroad).

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEPLOYMENT)

Galil Group performs major projects in the energy sector. In the oil and gas industry it has developed cutting-edge technology in the field of heavy oil cold cracking and pioneered work in Israel's growing natural gas market, offering design-build services for natural gas systems for factories and distribution lines.

### AREAS OF EXPERTISE

**Engineering & Construction:** EPC.



## YazamTech



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### VALUE PROPOSITION FOR THE OIL AND GAS INDUSTRY

Vendor of cybersecurity systems (hardware and software) against cyber threats, providing relevant protection for IT departments and infrastructure.

### COMPANY PROFILE (Company Stage – General: INITIAL REVENUE)

YazamTech specializes in developing and manufacturing unique data security systems, providing reliable responses to a wide range of security threats.

The systems we develop and market provide solutions to data related attacks as well as to data-leak threats. Our customers consist of governmental agencies in need of protecting their sensitive data, defense industries, and financial institutions, as well as companies operating in other sectors. Our products are able to protect national infrastructure, including oil and gas facilities, thanks to their exceptional abilities in the high-quality filtering of incoming and outgoing files as well as the secure transferring of files between separate networks, such as a sensitive internal network and an external network which is connected to the internet.

### PRODUCTS/TECHNOLOGY/SERVICES (Phase of Activities in the O&G Sector: DEMONSTRATION)

Our relevant products for the oil and gas industry include:

- SelectorIT – Securely filters files and controls file types, content, and components that are transferred between an oil and gas entity's sensitive networks and an external network.
- VScanIT – Manages and controls the operation of multiple anti-malware engines in parallel.
- ShuttleIT - Securely and automatically near-line transfers files between a sensitive network and an external network (e.g. the internet) without any communication between them (hardware based).
- VectorIT – Transfers data (protocols and files) via a unidirectional optic cable (hardware based) either from sensitive to external networks, or vice versa.
- ActualIT – Automatically downloads software updates for isolated systems.

### AREAS OF EXPERTISE

**Safety & Security:** Industrial Cyber Security.



# Alphabetical Listing of Companies

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