noble mergy

Israel's Natural Gas Industry

June 2018

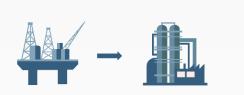
Ori Loewenstein

Israel as an Energy Island

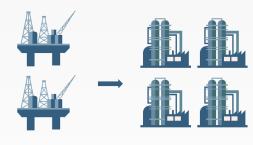




From Energy Dependence To Regional Supply







2004

Inception

Limited resources developed.
Supply of NG to handful of customers (one to one relationship)

Energy Independence

2019

Ample resources
developed from one main
reservoir.
supply to multiple
customers with various
uses (One to Many
relationship)

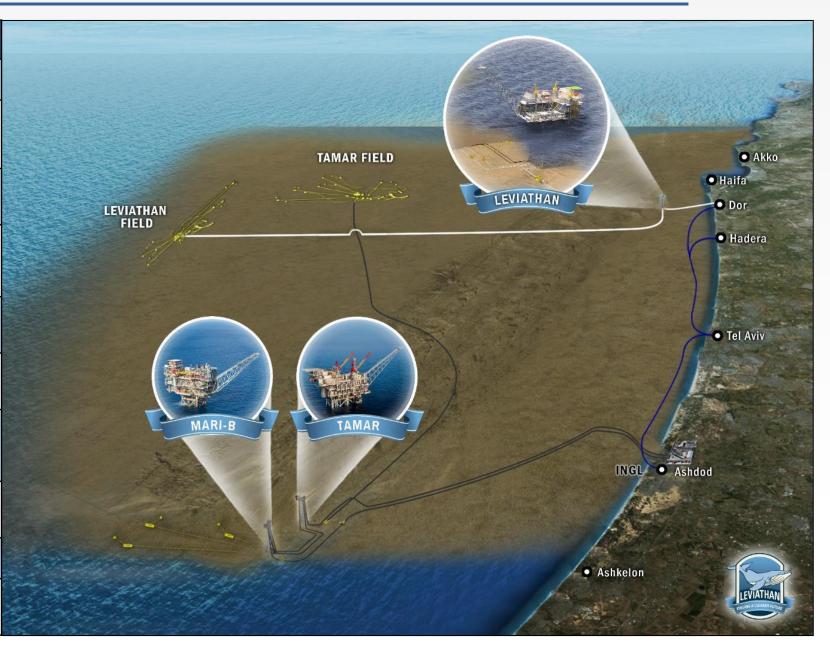
Regional supply

multiple resources developed allowing the supply to multiple buyers (many to many relationship)



Development Comparison

Description	Mari-B	Tamar	Leviathan
Year of First Gas	2003	2013	2019/2020
Installed Capacity (MMscfd)	600	1,200	1,200 DSM 2,100 REM
Installed Capacity (BCMy)	6.2	12.4	12.4 DSM 21.7 REM
Water Depth at Platform (m)	237	237	86
Water Depth at Wells (m)	Platform Wells	1700	1700
Tieback Distance (km)	2	150	117
Deck Weight (MT)	4,700	13,000	25,000 DSM/LSM 35,000 w/ REM
Jacket Weight (MT)	13,400	20,000	15,000
Deck Size (m)	34 x 59	38 x 66	102 x 80 est.
Onshore Area (dunams)	31	40	< 4 (CVS & DVS)



Tamar – Snapshot

- Field discovered January 2009
- Largest natural gas discovery in the world during 2009
- The Tamar structure covers 250 sq km
- Field is located 90 km offshore Haifa
- Considered the world longest sub-sea tieback (150km in length)
- Noble sanctioned Tamar development in September 2010 and achieved first gas production in March 2013

150 km Longest Subsea Tieback In The world

1,678_M

Water Depth At Wells

5 YRS

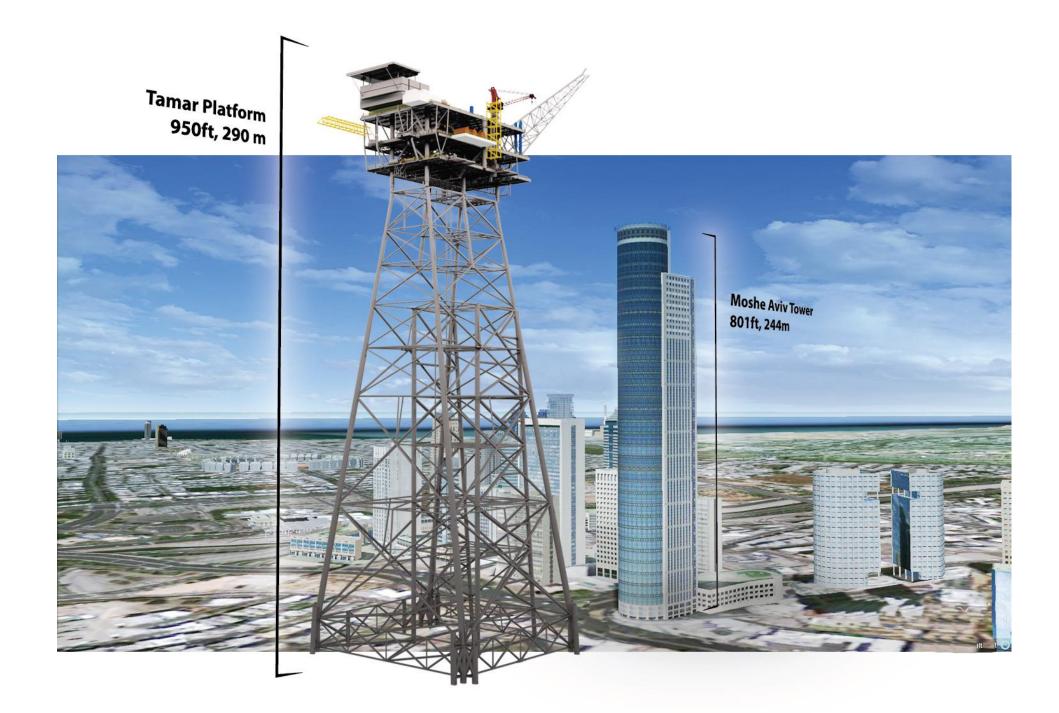
Producing Gas

12.4 BCM/Y

Production Capacity

>60% of Israel's electricity generation





Leviathan – Snapshot

The Leviathan Field is located in the I/15 Leviathan North and I/14 Leviathan South leases, approximately 125 km west of Haifa, Israel, and 35 km west of the Tamar Field in the Eastern Mediterranean

- Initial development will supply gas to Israel's domestic users as well as Jordanian and Egyptian customers
- Field Development plan consists of two stages:
 - Phase 1 ~1.2BCF/d of installed capacity
 - Phase 2 additional 0.9BCF/d achieving total supply capacity of 2.1BCF/d

622 BCM ESTIMATED RESERVES

1,700 M WATER DEPTH AT WELLS

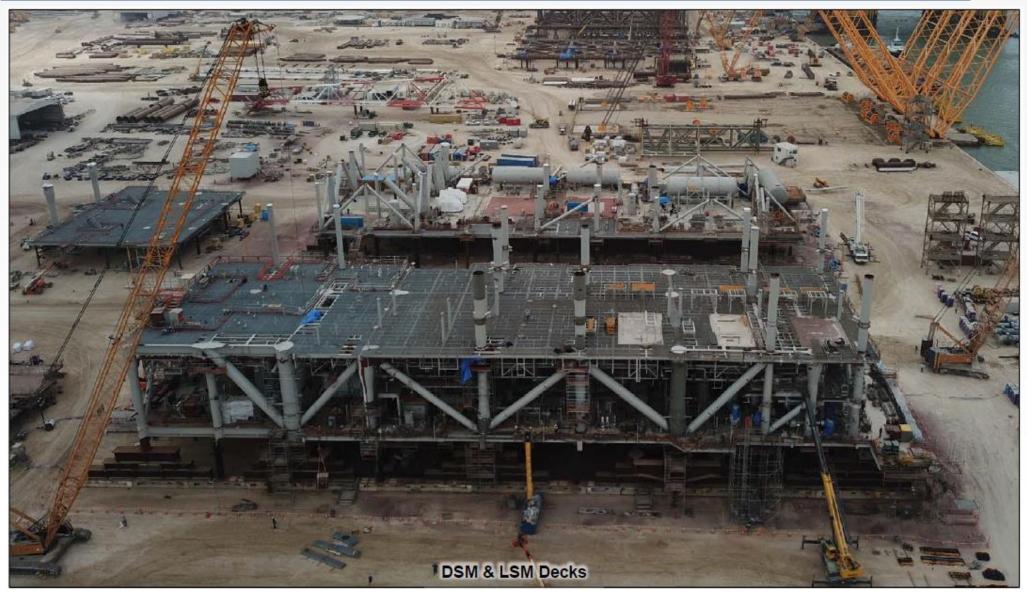
12.4 BCM/Y PRODUCTION CAPACITY

37,750 MT DECK WEIGHT



- Overall Project is over 50% complete.
- Continue Safe Work Practices and Safety Leadership training in Israel and Houston.
- Completed shore crossing execution at the Coastal Valve Station (CVS).
- Completed installation of the first 18" gathering pipeline.
- Received subsea tree #1 & # 2 in Israel.
- Commenced factory acceptance testing (FAT) of the Subsea Distribution Assembly (SDA).
- Completed stacking all levels of the living quarters.
- Completed fabricating 7 of 8 jacket legs.
- Received 212 of 278 equipment packages at Kiewit yard; 96 installed on the decks.
- Completed drilling of three out of the four Leviathan wells.































Local Companies Awarded Work for Leviathan Development































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QUESTIONS?

