



December 31, 2019

A New Era in Israel's Energy Sector:

**Natural Gas Flowing
from the Leviathan Gas Field**

- **The largest energy project in Israel's history completed in the timeframe committed by the Leviathan partners in the Natural Gas Framework.**
- **For the first time in its history, Israel to become a significant natural gas exporter**
- **Natural gas from Leviathan will allow reduction in use of polluting coal**
- **Leviathan gas expected to contribute to immediate reduction of electricity rates by 4%**

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Delek Drilling CEO Yossi Abu: "Delek Drilling today marks a historic turning point in the history of the Israeli economy. For the first time since its establishment, Israel is now an energy powerhouse, able to supply all its energy needs and gaining energy independence. At the same time, we will be exporting natural gas to Israel's neighbors, thus strengthening Israel's position in the region





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After 34 months of intensive work, and an investment of more than NIS 12 billion, the Leviathan partners – Noble Energy, Delek Drilling, and Ratio – have announced the start of natural gas production from the Leviathan gas reservoir, the largest energy project in Israel's history. Development of the Leviathan project constitutes a world-class achievement for the partnership: production is starting less than three years since the final investment decision was made in February 2017.

Quotes:

David L. Stover, Noble Energy's Chairman and Chief Executive Officer "This is a historic day for Noble Energy and our partners. The safe and successful execution of the initial phase of development has been world-class, continuing our exceptional track record in major project delivery. Noble is proud of the benefits our discoveries have brought and will bring to the region."

Delek Drilling CEO Yossi Abu: "Delek Drilling today marks a historic turning point in the history of Israeli economy. For the first time since its establishment, Israel is now an energy powerhouse, able to supply all its energy needs and gaining energy independence. At the same time, we will be exporting natural gas to Israel's neighbors, thus strengthening Israel's position in the region. Leviathan project will bring the coal era in Israel to an end, and will supply efficient, inexpensive and clean energy to people in Israel and in the Middle East."

Yigal Landau, CEO of Ratio: "The start of gas production is a historic moment for Israel and will change the country's regional status while producing substantial revenues for the benefit of Israel's citizens. We believe there is still great potential for the discovery of additional major reservoirs like Leviathan in Israel's exclusive economic zone."

Over the past few weeks, Noble Energy, the project's operator, has tested the platform systems, which proved to be ready for operation. With the tests and preparations completed, the Leviathan wells, located 130 kilometers west of Haifa, have been opened, and natural gas has started making its way toward Israel's shores. The gas from Leviathan is expected to reach Israel within the next few hours and will be transported from the production platform via the subsea pipeline connected to Israel's transmission system (INGL), and from there to gas consumers throughout the country.

The delivery of Leviathan gas will **effectively double the amount of Israeli-produced gas** when added to the quantities supplied from the Tamar reservoir. The supply of gas from Leviathan enables the displacement of coal for electricity generation in Israel; this, in turn, will significantly reduce air pollution, drive down electricity rates, provide the Israeli market with a secure energy supply and enable Israel to base its industrial manufacturing almost exclusively on





relatively inexpensive and clean natural gas.

Leviathan natural gas exports to neighboring countries is expected to begin in the coming weeks. For the first time in its history, Israel will be a large-scale gas exporter to neighboring countries.

The Leviathan gas field, located 130 kilometers west of Haifa, was discovered in December 2010 by the project partners, Noble Energy, Delek Drilling, and Ratio, and has been recognized as one of the world's largest natural gas discoveries of the past decade. Investment in the project's first phase is approximately 3.6 billion dollars – 150 million dollars less than projected in the project's original budget.

Phase 1 of the Leviathan project includes subsea development consisting of 4 production wells at an average depth of 5 km below sea level. Each well has a production capacity of 300 MMcf natural gas per day.

Gas from the Leviathan field will be transferred via two subsea pipelines, 120 km in length, to the processing platform, which lies 10 km west of the coastline. Gas processing will take place entirely offshore, and the processed gas and stabilized condensate will be transferred from the platform to the shore via two separate pipelines that will be connected to the INGL national gas transmission system, and to the EACP national fuel transmission pipeline, respectively. Leviathan's recoverable reserves amount to 605 BCM, or 22 TCF.

The Leviathan platform was built using Best Available Technologies ("BAT") designed to ensure minimal emissions; a Flare Gas Recovery Unit ("FGRU") system is in place that captures emissions and reuses them as fuel gas for the platform. The platform also meets the Ministry of Environmental Protection's stringent standards for water and air quality and the entire development was subject to National Outline Plan 37H.

Leviathan in numbers

- 130 kilometers – the gas field's distance from the shore (west of Haifa)
- 1700 meters – the depth of the Leviathan wells to the seabed
- 120 kilometers – the length of the pipeline between the wells and the production platform
- 98 meters – the height of the platform jacket
- 86 meters – the depth of the water in which the platform jacket was set
- 15,000 tons – the weight of the platform jacket
- 38 thousand tons – the weight of the Leviathan platform's production decks



- 47 meters –the height of the platform's upper level above sea level
- 62 meters – the height of the platform's helipad above sea level
- 130 meters – the height of the platform's flare above sea level
- 10 kilometers – the Leviathan platform's distance from the shore
- 5,000 meters below sea-level – drilling depth in the four Leviathan gas-producing wells
- 26 months – time it took to manufacture the platform's operating parts
- 24 countries around the world in which platform parts were manufactured
- 160 Israeli companies participated in Leviathan's construction

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אתר - [/https://www.leviathanproject.co.il](https://www.leviathanproject.co.il)

לפרטים נוספים ניתן לפנות לדוברי שותפות לוויתן:

נובל אנרג'י – פליישר תקשורת

עדי באגר – adi@fleisher-pr.com – 050-688-5555

דלק קידוחים – TOGETHER

מאיה ספיר – maya.s@together-ltd.co.il – 052-574-0175

רציו – שלום תל אביב

נועם לויתן - noam@shalomtelaviv.com – 052-2209172