

Fossil Energy EC-19

Proposal Title: Safe, Sustainable and Resilient Development of Offshore Reservoirs and Natural Gas Upgrading through Innovative Science and Technology: Gulf of Mexico - Mediterranean (GoMed Consortium).

| | U.S. Entities | Israeli Entities |
|---------------------------|---|---|
| Leaders: | Tulane University | The Hebrew University of Jerusalem |
| Consortium Members | Louisiana State University | Technion Research & Development Foundation (TRDF) |
| | University of Louisiana | University of Haifa |
| | UChicago Argonne, LLC Operator of Argonne National Laboratory | Geological Survey of Israel |
| | | Ramot at Tel-Aviv University Ltd. |
| | | Delek Drilling LP |

This consortium brings together a group comprising universities, a US national lab and a corporate partner to develop innovative technology that will enable the safe and sustainable development of offshore gas reservoirs. This consortium spans the upstream, midstream and downstream sectors, and will build an integrated, cohesive team of scientists in the U.S. and Israel that will leverage existing expertise and resources to establish a platform for innovation and breakthrough research. The Consortium's main drive is to provide improvements in the practices associated with the development, operation and ultimate abandonment of offshore oil and gas fields, by examining in detail two natural laboratories: The Gulf of Mexico and the Eastern Mediterranean. Both regions are experiencing a boom in oil and gas activity, though the former can be considered "mature", with decades of intense exploration and exploitation operations, while the latter is more frontier. The outcomes will be more efficient and environmentally sustainable exploration and utilization of offshore fields and new technologies for converting natural gas to liquid fuels. The CMs include Tulane University, Louisiana State University, University of Louisiana, Argonne National Laboratory, The Hebrew University of Jerusalem, The Geological Survey of Israel, Technion, Tel Aviv University, Delek Drilling LP, and the University of Haifa. Ongoing discussions are taking place with Noble Energy, Noble Energy Israel, and the Louisiana Economic Development council to delineate their potential roles in this consortium. The eventual commercial potential of this consortium includes software, workflows, and techniques relevant to natural gas exploration, extraction and well integrity, as well as new processes to chemically convert natural gas to liquid transportation fuels and higher value products.

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