AP-OptiPlus™
Liquefier Optimization Program
A digital solution to help your plant operation

Efficient and Reliable Operation

- Effective data analysis with thermodynamically supported calculations
- Automated guidance for improved operation based on 50+ years of Air Products extensive LNG experience
- Supplemented with periodic site visits and remote support from Air Products' experts
- Reduces the impact of plant upsets
- Optimize in unusual modes of operation such as during a feed gas booster compressor trip

Customized for your liquefaction plant

The program is developed in close collaboration with your operations and technical personnel. This ensures your facility-specific goals and requirements are prioritized.
The AP-OptiPlus Program takes advantage of Air Products’ 50+ years of process optimization experience to enable your operations team to easily and consistently optimize parameters that require intricate knowledge of the process, such as:

- MCHE temperature differences
- Mixed refrigerant composition
- MRL to MRV ratio

About Air Products

Air Products is a world-leading industrial gases company celebrating 80 years of operation. The company’s core industrial gases business provides atmospheric and process gases and related equipment to manufacturing markets, including refining and petrochemical, metals, electronics, and food and beverage. Air Products is also the world’s leading supplier of liquefied natural gas process technology and equipment.

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Logic Flowchart
Developed for key areas of the plant including propane refrigeration, MCHE optimization, and refrigerant machinery operation.

C3 refrigeration

Success stories

The AP-OptiPlus Program was first implemented in 2009 and has been successfully employed on 9 major LNG trains located in Peru, Papua New Guinea, Qatar, and the United States. The optimization program has helped these LNG producers identify process improvements and equipment operation concerns very quickly and provided structured problem-solving solutions. This has led to better performing and more reliable liquefier operation. Some operators have experienced a 1 to 3% liquefaction production or efficiency gain. With the help of the AP-OptiPlus Program, our customers are able to produce LNG more efficiently and more easily meet their annual LNG production targets.