

Global LNG Liquefaction Technology Market Size Study and Forecast by Type (APCI C3MR, Dual Mixed Refrigerant (DMR), Cascade Process, Single Mixed Refrigerant (SMR), Nitrogen Expander, Others), By Plant Capacity (Large-scale LNG (>5 MTPA), Mid-scale LNG (1–5 MTPA), Small-scale LNG (

Abstracts

The Global LNG Liquefaction Technology Market, valued at USD 5.75 Billion in 2025, is projected to reach USD 20.60 Billion by 2036, expanding at a CAGR of 11.2% during the forecast period. The market comprises advanced process technologies, engineering solutions and equipment used to liquefy natural gas by cooling it to cryogenic temperatures, thus significantly reducing its volume for efficient storage, transportation and global trade. LNG liquefaction technologies play an important role in enabling long-range distribution of natural gas, enhancing energy security, and assisting the transition to lower carbon energy systems. The market encompasses APCI C3MR, Dual Mixed Refrigerant (DMR), Cascade Process, Single Mixed Refrigerant (SMR), Nitrogen Expander, and other liquefaction technologies utilized in Large-scale LNG (>5 MTPA), Mid-scale LNG (1–5 MTPA) and Small-scale LNG (5 MTPA) holds the dominant position in the plant capacity segment with an estimated share of 61.3% in 2025 on the back of rising investments in mega LNG export terminals, economies of scale and growing global LNG trade volumes.

The small-scale LNG (5 MTPA), Mid-scale LNG (1-5 MTPA), Small-scale LNG (5 MTPA)

Mid-scale LNG (1–5 MTPA)

Small-scale LNG (

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