PRELUDE FLNG – OVERVIEW

Floating Integrated Gasification Liquid Natural Gas (FLNG) plants are a new frontier in the LNG industry, offering a flexible solution to the transport and storage of liquefied natural gas. Prelude FLNG, located in the Browse Basin off the northwest coast of Australia, is a world-first FLNG project with a capacity to produce 13 million metric tons of LNG per year. It is a significant step in the development of the Australian LNG sector and is expected to make a substantial contribution to the global LNG market.

Current developments

Prelude FLNG is a joint venture between Shell, Prelude Energy, and Woodside Petroleum. The project is being developed by Prelude Energy, a Woodside Petroleum company, and is expected to come online in 2018. Prelude FLNG is being built on the Prelude platform, a purpose-built floating platform located in the Browse Basin. The platform is being constructed onshore and will be towed to the site, where it will be moored to the seabed. The construction of Prelude FLNG is expected to create thousands of jobs and generate billions of dollars in benefits for the Australian economy.

Technology

Prelude FLNG is being developed using the latest technology and is expected to be one of the most advanced FLNG plants in the world. The plant will use a unique combination of technologies to convert natural gas into LNG, including a membrane-based gasification process and a modular LNG process. The membrane-based gasification process is expected to be more efficient and environmentally friendly than traditional gasification processes, and the modular LNG process is expected to be more flexible and cost-effective than traditional LNG processes.

Markets

Prelude FLNG is expected to contribute significantly to the global LNG market. The LNG produced by the plant will be sold to a variety of buyers, including power and industrial customers. The project is expected to generate significant revenue for the joint venture partners and contribute to the development of the Australian LNG sector.

Environment and safety

Prelude FLNG is being developed with a focus on environmental and safety considerations. The project is expected to have a minimal impact on the marine environment and will be designed to meet the highest safety standards. The plant will be equipped with state-of-the-art safety systems and will be monitored and managed by a team of experienced professionals.