SpeedCast
Wherever You Are

Case Study:
Tailored Satellite Solution to One of the World's Largest LNG Developments

The 'Wheatstone Project' Case Study

Tailored satellite solution to one of the world's largest LNG developments

Background

The Wheatstone Project is one of Australia's largest resource projects, located 12 kilometres west of Onslow on the Pilbara coast of Western Australia.

Construction on the $29 billion Wheatstone Project began in late 2011, with the first LNG expected in 2016.

- ➢ Access to a wide range of satellites and meshed network
- ➢ Adaptive Coding and Modulation (ACM) to overcome varying atmospheric challenges, inherent in the region
- ➢ 24x7x365 operation and always-on satellite service

Objective

SpeedCast was selected to provide vital communication services to the Wheatstone Project through partners BAE Systems and Bechtel. The size and nature of the Wheatstone Project meant a diverse range of solutions were required to overcome the communication challenges, with large-scale and remote resources projects encounter. As the provider of the Operations Satellite System, BAE Systems and Bechtel required a provider who could deliver remote Internet, voice, video and data services for LNG operations, OH&S compliance and back up communications, as well as on–site staff welfare. With long standing relationships with Western Australian oil and gas service providers, SpeedCast had the reputation and experience to deliver the satellite services required.

Solution

Years prior to the Project commencing, SpeedCast worked closely with the Wheatstone engineering and design team to ensure the Project had the best possible satellite service available, and the highest amount of design options as the Project matured.

The final contract for the Wheatstone Project was a meshed satellite network, linking the onshore production facility at Onslow, the offshore platform, and the Perth Head Office.

As a 24x7x365 operation, the Project required an always-on satellite service. SpeedCast's wide range of satellites provided line-of-site and satellite diversity, to ensure there was no single point of failure throughout the satellite network. As well as providing the best infrastructure, SpeedCast integrated Adaptive Coding and Modulation (ACM) into the network to overcome the varying atmospheric challenges, inherent in the region.

The successful award of this project represents another evolution in SpeedCast's capabilities to deliver world-class satellite services, to the highest level of engineering excellence.

Disclaimer: Services rendered under NewSat brand, now part of SpeedCast Group

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Contact Us to Discuss Your Unique Requirements Today!

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