

Case Study.

BP: Angola LNG flare reduction

Best Practice: Flaring; Engineering Design and Construction

The Issue

- Associated oil production resulted in flaring of 65 mmscfd
- LNG facility enabled capture of otherwise flared gas
- Challenge to eliminate the flare without impacting oil production

The Approach

- Four low flare field trials were completed
- over a 2 ½ year period to identify the most suitable mechanism
- Conversion of gas to water well injection
- Re-optimisation of well and production settings
- Improved stability across wider operation envelope for multi-stage compression system



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The Result

- Total average flare reduced from 72.5 to 16.5 mmscfd
- Increased gas export, small increase in oil production, and reduced flaring has created several hundred million dollars of value.
- Enhanced BP reputation in country; increased oil production during a period of decline; more gas flow to under-utilised ALNG plant; reduction of flaring aligning with national environmental aims.

