Factsheet Aasta Hansteen
The largest spar ever built, Norway
May 2019

Aasta Hansteen is a deep water gas development in the Norwegian Sea operated by Equinor. It comprises a floating spar moored to the seabed with a topside gas processing facility and a condensate storage tank below sea level. The condensate will be offloaded to shuttle tankers at the field and transported to the market. The gas will be transported via the 482 km long Polarled pipeline and treated at the gas processing plant in Nyhamna, Norway.

Investment
- EUR 657 mn (net to OMV)
- EUR 4 bn (total)

Product
- Dry, sweet gas with low CO₂ content
- Ideal for blending with gas from other fields

Gas production
604.4 bn kWh gas production is equal to Austria’s total electricity consumption for the next ten years.

Transportation
26,900 km transportation of the topside and substructure from South Korea to Norway.

Value
- Norway is a safe country that enables reliable gas supply to markets across Europe
- Norway is one of OMV’s focus areas and core regions
- Predictable gas supply is key to the Norwegian government
- Equinor is the largest and most experienced operator in the region
- Future hub for third-party subsea tie-backs will increase life of field and use of Aasta Hansteen’s infrastructure
- High upside potential for exploration and farm-ins
- Synergies between Up-, Mid- and Downstream
- Revenue for OMV – tax income to Norwegian state

Project challenges
- Deep-water
- Far from shore
- The field is subject to rough weather conditions
- Sub-zero temperatures in winter
- Lack of infrastructure
- Need for condensate storage and offloading
- Short installation season due to harsh environment
- Complexity of engineering and construction
**Technology used**

**Block construction**
Block construction is a fast and cost efficient shipbuilding method on land which involves the assembly of prefabricated modules. The pre-built blocks are transported to the shipyard and hoisted into position and attached to other modules.

**Reel-lay pipeline installation**
Reel-lay is a safe, cost-effective and ten times faster subsea pipe laying method compared to conventional methods. Long pipe sections are welded, tested, coated and spooled onto large reels onshore. The reel-lay vessel unspools, straightens, and lowers the pipe to the seabed as it moves forward.

**Steel catenary risers (SCR)**
SCRs are connecting a subsea pipeline to a platform. The risers are used to transfer hydrocarbon fluids or injection water. SCRs are simple in design, easy to install, economically attractive and highly resistant to pressure.

**Mooring with polyester lines**
The offshore mooring line or anchor rode is connecting the anchor on the seabed to a large ship or floating platform at the sea level. Polyester lines have lighter weight than steel chains, superb fatigue performance and smaller vessel drift-off due to shorter lines.

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