Maria pipelines and subsea construction will be developed using a subsea facility tied via rigid pipelines and flexible risers to Kristin with gas lift being supplied from Åsgard B via Tyrihans and Sulphate reduced sea water supplied with injection pressure from Heidrun.

Subsea 7 scope consists of Engineering, Procurement, Construction and Installation (EPCI) of 95km of rigid flowlines, direct electrical heating system, design and fabrication of structures, spools and GRP covers. Transport and installation of subsea production systems.
## Wintershall, Maria

<table>
<thead>
<tr>
<th>Project</th>
<th>Maria</th>
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</thead>
<tbody>
<tr>
<td>Client</td>
<td>Wintershall</td>
</tr>
<tr>
<td>Location</td>
<td>North Sea</td>
</tr>
<tr>
<td>Water depth</td>
<td>300 - 320m</td>
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<tr>
<td>Project Type</td>
<td>SURF</td>
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<tr>
<td>Date Awarded</td>
<td>May 2015</td>
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<tr>
<td>Date Completed</td>
<td>December 2017</td>
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</tbody>
</table>

### Vessels Utilised/ Spoolbases
- Seven Oceans
- Seven Viking
- Normand Oceanic
- Skandi Acergy
- Vigra and Leith Spoolbases

## Overview
Project management and engineering work is undertaken from Subsea 7’s office in Stavanger, Norway.

**EPCI scope:**
- 26km 14” Production pipeline system including Direct Electrical Heating (DEH) and Bubi mechanically lined pipe
- 19.3 + 3.2km 6 5/8” Gas lift pipeline system including PLEM structure at Tyrihans
- 43 + 3km 12” Water injection PE lined pipeline
- Tie-ins, pre-commissioning, Trenching and Rockdumping of flowlines and umbilicals are also included.

**Transport and Installation Scope:**
- 2 Off Templates and Manifolds
- 23 + 3km Static Umbilical system
- Offshore operations will be in 2016 and 2017