Shaping the future of energy

Competitive at all times

Transforming the oil and gas industry

Providing energy for a low carbon future
Global research with high activity in Norway

Norway
- Trondheim
- Bergen
- Porsgrunn
- Haugesund
- Stavanger
- Oslo

Canada
- St John’s

USA
- Houston
- Austin

Brasil
- Rio

China
- Beijing

Statoil Research
Focus areas

Exploration
Subsurface
Facilities
Lab and test facilities
Future value chains
Projects and technology collaboration

1 September 2016
Strengthening position in Brasil

**BM-C-33**
- Statoil is the operator of the block with 35% working interest, along with co-ventures Repsol Sinopec Brazil (35%) and Petrobras (30%)
- Three discoveries; Seat, Gávea e Pão de Açúcar - currently in evaluation/development

**BM-S-8**
- Statoil will acquire Petrobras’ 66% operated interest of the BM-S-8 block in the Santos basin
- Closing of transaction subject to customary conditions, including partner’s and government approval
The Statoil Subsea Factory™
Subsea Technology Strategy

Creating value through technology

Research & Technology Centre Rio - Subsea Ambition:
- Enable leaner-cleaner-smarter subsea field developments down to 3000 m
- Mature new subsea technologies to allow for implementation in new field developments

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<th>Subsea Focus</th>
<th>Subsea Production Systems</th>
<th>Risers and Pipelines</th>
<th>Sea water treatment and injection</th>
<th>Subsea Artificial Lift</th>
<th>Separation</th>
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<tr>
<td><strong>Technology needs</strong></td>
<td>• Standardization, Simplification and Industrialization</td>
<td>• Design Methods</td>
<td>• Fines and sulfate removal</td>
<td>• Standardization &amp; industrialization</td>
<td>• Gas-liquid separation</td>
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<td>• Technologies and solutions for lower the CAPEX</td>
<td>• Larger dia. risers</td>
<td>• Cost efficient and reliable deep water boosting</td>
<td>• Liquid-liquid separation</td>
<td>• Subsea injection or disposal of produced water</td>
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<td>• New riser concepts</td>
<td>• New materials</td>
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<td>• Cost efficient and reliable deep water boosting</td>
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<td>• Heating</td>
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Digitalization and automation
Cost efficient installation and intervention in deep water
Integrated concept development is key

Example from Norwegian Continental Shelf

Capex reductions

1) Capex numbers in real term NOK 2016

Changes in break-even price

2013 above
80 USD/bbl

Current below
45 USD/bbl
Obrigado!