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Gas Day Changes – Legal Agreements

- Alteration to the Gas Day will require changes to large numbers of legal agreements across the North Sea – typically these will be:
  - Transportation and Processing Agreements.
  - Operating Service Agreements.
  - Allocation and Attribution Agreements.
  - Gas Sales Agreements.

- Even where a system is changing over wholesale to the new Gas Day the changes required to the legal agreements will require to be negotiated and cascaded 100% to upstream shippers and operators in that system.
  - Changes to timings of nominations in agreements will require changes to measurement, IT systems and operating procedures. Procedures will need to be cascaded to operational personnel.

- Where a system changes piecemeal then there will need to be amendments to Allocation and Attribution Agreements to establish a transition regime to deal with some fields running 06.00-06.00 and others running 05.00-05.00.
  - Solutions will be complex to design as they need to encompass all elements of allocation and attribution – measurement uncertainty, substitution, fuel gas, losses, etc.
  - Solutions will result in value exposure between parties – unlikely to gain consensus during negotiations.
# Gas Day Changes – Measurement & Allocation

## Area Impact Risks

<table>
<thead>
<tr>
<th>Area</th>
<th>Impact</th>
<th>Resources</th>
<th>Timing</th>
<th>Reporting</th>
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<tbody>
<tr>
<td><strong>Measurement Facilities:</strong></td>
<td><strong>Metering Systems</strong>&lt;br&gt;Upgrade metering systems (Flow computers, database and integration): MSC, Telemetry,</td>
<td>- High resource constraint. Need to remove existing offshore activity to accommodate affecting shutdowns and possible other legislatives activity.</td>
<td>- Co-ordinating industry internal/external and measurement – challenging</td>
<td>- Across periods</td>
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<td><strong>DCS/Data Historians</strong>&lt;br&gt;Change/Modification of DCS systems and historians</td>
<td>- Limited vendors in common with North Sea for facilities</td>
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<td><strong>Telemetry</strong>&lt;br&gt;- Systems changes&lt;br&gt;- Full scope not clear</td>
<td>- MoC – safety</td>
<td>- Shutdown scope; integrated plans</td>
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<td><strong>Allocation and Nominations Processes systems</strong></td>
<td><strong>Field systems</strong>&lt;br&gt;- Changes to nominations systems/processes&lt;br&gt;- Separate oil day/gas day processes&lt;br&gt;- Midstream allocation systems&lt;br&gt;- Changes to nominations and invoicing systems/processes&lt;br&gt;- Change to nomination transfer systems&lt;br&gt;- Change to Environmental reporting&lt;br&gt;- Change to CVA process&lt;br&gt;- Impact on existing projects</td>
<td>Resources&lt;br&gt;- Internal: Difficult, disruption to new production projects&lt;br&gt;- External: Highly constrained market</td>
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