



Oil & Gas
Authority

Stewardship Expectations

SE-08 Technology Plans Implementation Guide

1. Objectives

The Technology Plan Expectations are set out in the Asset Stewardship Expectations and are available on the OGA's website. The link to the expectations is also included in the Technology Plan section of the UKCS Stewardship Survey.

A Technology Plan should indicate to the OGA that an Operator has a strategy for the appropriate development and/or deployment of existing, new and emerging technologies to their optimum effect for the benefit of its assets and in support of its MER UK obligations.

A Technology Plan should help to identify potential technology gaps, providing an Operator and the OGA with visibility of technology needs that, if addressed, would support the MER UK objectives. Therefore, a Technology Plan is also intended by the OGA to assist an Operator to identify technology solutions across its asset base and determine how best to deploy such technologies and also collaborate with other companies.

For the purposes of this Guide, references to:

- 'Operator' means the operator (under a licence) of a UKCS exploration and/or production asset;
- 'Technology' includes technologies covering the whole asset lifecycle comprising the exploration, production, late-life, cessation of production and decommissioning phases.

2. Required content

Operators are responsible for preparing and submitting the Technology Plan to the OGA. Where an Operator operates multiple assets in the UKCS, the Operator is expected to submit a single Technology Plan covering all the operated assets in the UKCS (business unit level consolidated plan).

The Technology Plan should specify:

1. the key technology needs for each operated asset or a group of assets;
2. how the Operator proposes to address the technology needs it has identified;
3. the proposed timeline for development and deployment of existing, new and emerging technologies;
4. any potential or recognised technology gaps.

3. Asset Needs – Technology

Operators should identify the technology needs associated with each of its operated assets or group of assets. Such information should be clearly set out in summary tables or sub-sections of the document, and follow, where possible, the suggested classification in category 2 on Table 1 below:

Asset (s) Needs (s) – Category 1	Asset (s) Needs (s) – Category 2
Exploration and subsurface	New Prospects Derisk Discoveries Near-Field Exploration
Development Complexity	H2S Compartmentalised Flow assurance HPHT Heavy oil Thin column Tight High Water Production
Capex Efficiency	Wells Tie-Back Standalone Facilities
Asset Management	Production Optimisation Integrity Safety and Uptime Opex Efficiency Increase Recovery/Life Extension
Decommissioning	Well P&A Facilities Decommissioning Programme Efficiencies

Table 1: Operators' Assets Needs

4. Addressing the identified technology needs

Operators should describe the consolidated need/s associated with each of its operated assets or group of assets and identify potential technologies it proposes to use or develop to address those needs. Such information may be set out in table similar to Table 2, however Operators may use an alternative reporting format if it includes the requested information.

If an Operator is not aware of a specific technology opportunity available or under development to address a particular stated challenge, details should be provided, for example in the column titled "Potential Technology Gap" or at some appropriate point in the Technology Plan.

The number of needs identified will vary per Operator and therefore the number of rows in the table should be amended accordingly. Operators should include additional information on the technologies being considered to support the entries as applicable.

A proposed timeline that the technology is expected to be available for deployment should also be included.

Consolidated need proposal (by UK business unit or asset group)	Plan to use existing technology		Technology under development		Technology to be potentially developed		Potential technology gap(x)
	Y/N - timeline	Technology description	Y/N	Technology description	Y/N	Technology description	
e.g. asset A and its consolidated need	Y 2018	Technology X or Y to address the following need(s) etc					
e.g. asset B its consolidated need			Y 2019	Technology X or Y to address the following need(s) etc			

Table 2: UK Business Unit proposal for addressing the identified technology needs

5. Additional information

It would be beneficial if an Operator could provide details of:

- any technology projects, JIPs, pilots or trials that they are involved in;
- information on any potential areas where the introduction of any future transformational technology would be of significant benefit;
- identification of any particular technologies that are not commonly used in the UKCS;
- identification of any first-time use, trial or piloting.

This information could be provided by modifying any existing Technology Plan tables or by providing it as stand-alone information.

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The Technology Plan should be submitted in accordance with the UKCS Stewardship Survey timeline.

6. Delivery of Expectation

The following indicators will be used by the OGA when assessing compliance with the Technology Plan Expectations:

1. a Technology Plan has been submitted to the OGA as part of the Annual UKCS Stewardship Survey;
2. the Operator has listed the key technology needs faced by each asset, or group of assets, and identified the key challenges for such each asset, or group of assets; and

3. the Operator has described how it proposes to address the technology needs and identified its timeline for doing so;

4. contact details have been provided for single point of contact for each Technology Plan submitted (see Responsible Person).

7. Responsible person

Please provide a single point of contact should the OGA wish to follow-up on any aspect of an Operator's Technology Plan or to engage with regarding technology subjects. Operators should nominate a Responsible Person in the UK as the single point of contact for each Technology Plan submitted. The Responsible Person may be the same individual as the Single Point of Accountability (SPA) for the Stewardship Survey.

The following information should be provided:

- Name of 'responsible person'
- Position held and location
- Email address



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