

OTM-066: Tracking volumes of oil stored

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Challenge

Challenge ID	OTM:066				
1 Title	Tracking volumes of oil stored				
2 Theme ID	ON 5.4: Logistics planning and operations - Monitoring of assets				
3 Originator of Challenge	Onshore: OTM				
4 Challenge Reviewer / initiator					
General description		Overview of Challenge			
5 What is the nature of the challenge? (What is not adequately addressed at present?)	Getting a snap shot of our stored hydrocarbon volumes, if this storage is geographically widespread and there is no internal level monitoring (through faults or the fact that it was never installed), is incredibly difficult. We have ways of doing this using standard process equipment such as flowmeters or level control systems, but any additional verification measure, if cost effective, is always a good thing.				
6 Thematic information requirements	1. Obtain detailed topographic information, 9. Obtain detailed imagery of assets,				
7 Nature of the challenge - What effect does this challenge have on operations?	Being able to track the changes in our reservoir storage, in combination with other readings (e.g. flowmeters, level control systems, etc.) could enable us to identify faults or errors in equipment, identify (earlier than before) leaks that may cause dama				
8 What do you currently do to address this challenge?/ How is this challenge conventionally addressed?	Existing readings (flowmeters, level control systems etc... used)				
9 What kind of solution do you envisage could address this challenge?					
10 What is your view on the capability of technology to meet this need? – are you currently using EO tech? If not, why not?					
Challenge classification					
11 Lifecycle stage	Pre license	Exp.	Dev.	Prod.	Decom.
Score from impact quantification [1]	0	0	0	3	0
12 Climate classification	NOT CLIMATE SPECIFIC				
13 Geographic context/restrictions	Generic onshore (Unspecified)				
14 Topographic classification / Offshore classification	Generic onshore (Unspecified)				
15 Seasonal variations	Any season				
16 Impact Area	Operational cost reduction				
17 Technology Urgency (How quickly does the user need the solution)	Immediately (0-2 years)				
Information requirements					
18 Update frequency	Monthly				
19 Data Currently used	Standard process equipment				
20 Spatial resolution	Standard process equipment				
21 Thematic accuracy					
22 Example formats					
23 Timeliness	within a week				
24 Geographic Extent	Reservoir footprint				
25 Existing standards					

[1] Impact quantification scores: 4 – Critical/ enabling; 3 – Significant/ competitive advantage; 2 – Important but non-essential; 1 – Nice to have; 0 – No impact, need satisfied with existing technology

Relevant products

Content by label

There is no content with the specified labels

