

OTM-049: Identifying unregulated overhead power cables

Identifying unregulated overhead power cables

Challenge

Challenge ID	OTM:049				
1 Title	Identifying unregulated overhead power cables				
2 Theme ID	ON 5.2: Logistics planning and operations - Support to surveying crews for planning surveys and H&S				
3 Originator of Challenge	Onshore: OTM				
4 Challenge Reviewer / initiator	PEMEX, Petronas				
General description	Overview of Challenge				
5 What is the nature of the challenge? (What is not adequately addressed at present?)	It is not uncommon to find numerous unregulated power cables, and other services lines (water, gas, etc.) in many frontier regions. Whilst damaging a small water pipeline poses little HSE risk, unregulated power cables do pose a threat. It would be beneficial to us to have a tool that could identify the location of over-head power-line routes and allow us to understand the clearance heights. This will influence logistics and H&S considerations such as movement of staff and plant.				
6 Thematic information requirements	4. Obtain detailed land-use information, 14. Obtain detailed imagery of the surface,				
7 Nature of the challenge - What effect does this challenge have on operations?	There have been fatalities as a result of survey staff walking under overhead lines with survey equipment. Where this risk can be totally removed, it should be. Some development equipment have clearance heights that exceed the height of some power cable				
8 What do you currently do to address this challenge?/ How is this challenge conventionally addressed?	Online imagery, ground survey teams				
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	2	2	0	2
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	Health and Safety				
17 Technology Urgency (How quickly does the user need the solution)	Immediately (0-2 years)				
Information requirements					
18 Update frequency	Snap shot requirement				
19 Data Currently used					
20 Spatial resolution					
21 Thematic accuracy					
22 Example formats					
23 Timeliness	Reference data - timeliness not important				
24 Geographic Extent	district area				
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