

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?)	<p>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.</p> <p>This will influence logistics and H&S considerations such as movement of staff and plant.</p>				
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?	<p>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.</p> <p>Some development equipment have clearance heights that exceed the height of some power cable</p>				
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				

[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

- [Product Sheet: Infrastructure Monitoring](#)
- [Product Sheet: Linear disturbance features](#)
- [Product Sheet: Transport Network](#)