

	Country/Jurisdiction		Australia (Queensland)	Brazil	Canada (Alberta)	Ghana	Malaysia	Norway	Oman	UK	US Gulf Coast	US North Dakota
Question #	Survey Questions	Response Categories	Score	Score	Score	Score	Score	Score	Score	Score	Score	Score
Project Stage: Approvals Metric of Performance: Stringency												
1	Does the government have requirements to conduct Environmental Impact Assessments (EIA's) for specified development projects?	Yes/No	1	1	1	1	1	1	1	1	1	1
2	What is the average length of time for large scale hydrocarbon projects (greater than 30,000 bpd) to receive approval (within the last 5 years)?	Not Available (A) 0 < 6 months (B) 1 6 - 18 months (C) 2 > 18 months (D) 3	2	3	2	2	2	2	1	2	3	3
3	What is the average cost to prepare an application and gain approval (last 5 years)?	\$250 - \$75,000 (A) 1 \$75,000 - \$200,000 (B) 2 \$200,000 - \$400,000 (C) 3 \$400,000 - \$2,000,000 (D) 4 >\$2,000,000 (E) 5	5	5	5	1	3	4	3	4	5	4
4	Are there opportunities for stakeholder to review and provide input on regulatory applications?	Yes/No	1	1	1	1	1	1	0	1	1	1
5	How many staff are utilized by each regulator for the environmental review of major project applications?	< 10 Total (A) 0 10 - 50 Total (B) 1 50 - 100 Total (C) 2 > 100 (D) 3	2	3	1	0	0	0	0	1	3	1
Project Stage: Operations Metric of Performance: Stringency												
6	Are renewals on environmental regulatory permits required?	Yes/No	1	1	1	1	1	1	1	0	1	1
7	For what and how often are renewals required?	None (A) 0 Triggered by change in operations (B) 1 5 - 10 Years (C) 2 3 - 5 Years (D) 3 1 - 3 Years (E) 3	1	2	2	3	1	1	3	1	2	3
8	Is environmental monitoring and reporting required during operations?	Yes/No	1	1	1	1	1	1	1	1	1	1
9	Is an Operations Environmental Management Plan required to be submitted and approved by the regulatory authority?	Yes/No	1	1	1	1	1	1	1	1	1	1
10	Are cumulative effects monitored? e.g. Air quality (NOx, SOx)	Yes/No	1	1	1	1	1	1	1	1	1	0
11	Are there requirements for continuous monitoring?	Yes/No	1	1	1	1	1	1	1	1	1	1
12	Are environmental monitoring criteria and thresholds defined through regulations?	Yes/No	1	0	1	1	1	1	0	1	1	1
13	If environmental monitoring criteria and thresholds are defined, please describe.	Not Defined (A) 0 Project Specific (Risk Based) (B) 1 Prescriptive (C) 2	2	1	1	2	1	2	0	2	1	1
Project Stage: Closure Metric of Performance: Stringency												
14A	Are closure plans required?	Yes/No	1	1	1	1	1	1	1	1	1	1
14B	If yes, when are they required?	None (A) 0 At Time of Closure (B) 1 Operational (Advance of Closure) (C) 2 Planning phase (D) 2	2	2	2	1	2	2	2	2	1	2
15	Is there regulatory mandated remediation and reclamation at facility end of life?	Yes/No	1	1	1	1	0	1	0	1	1	1
16	Are there defined (prescribed thresholds) remediation and reclamation standards or are risk based remediation and reclamation methods used?	Yes/No	1	1	1	1	1	1	0	1	1	1
17	Are reclamation certificates issued by the government?	Yes/No	1	0	1	1	0	1	0	1	0	1
18	Are there bond or financial security requirements against end of life facility liability?	Yes/No	1	0	1	1	0	1	0	0	1	1
19	Is there a government run program that can be implemented to remediate and reclaim orphaned facilities and oil wells in cases where a company defaults?	Yes/No	1	0	1	0	0	0	0	0	0	1
Total			32	28	27	22	19	24	16	23	27	27

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Project Stage: Approvals Metric of Performance: Transparency													
1	Is there freedom of information legislation?	Yes/No	1	1	1	1	1	1	0	1	1	1	
2	Are regulatory approval processes and requirements readily available to the public?	Yes/No	1	1	1	1	1	1	0	1	1	1	
3	Is the public able to provide input into draft legislation?	Yes/No	1	1	1	1	0	1	0	1	1	1	
4	Is there legislation in place that requires a project approval to demonstrate that the project is in the "best interest" of the public?	Yes/No	0	0	1	1	1	0	0	0	1	1	
5	Is a basis for decision (project approval/rejection) communicated to the public? (ie. Decision Reporting)	Yes/No	1	1	1	1	1	1	0	1	1	1	
6	Are stakeholders able to provide input and/or intervene on project applications?	Yes/No	1	1	1	1	1	1	0	1	1	1	
7	Describe the method(s) that intervenors can provide input.	None (A) 0 Written (B) 1 Verbal (C) 1 Both (D) 2	2	2	2	2	1	2	0	1	2	1	
8	Is there any type of duty to consult in legislation? e.g. duty to consult "affected parties", or indigenous people(s)?	Yes/No	1	1	1	1	1	1	0	1	1	1	
9	Do the due process requirements include processes for public hearings and/or information requests? (e.g. hearings, SIR (Supplemental Information Requests), Intervention)	Yes/No	1	1	1	1	1	1	0	1	1	1	
10	Is there a public appeal process for regulatory decisions? (i.e. Environmental Appeal Board)	Yes/No	1	1	1	1	1	1	1	1	1	1	
11	Is there a project proponent appeal process for regulatory decisions?	Yes/No	1	1	1	1	1	1	0	1	1	1	
Project Stage: Operations Metric of Performance: Transparency													
12	Are monitoring reports/data available to the general public?	Yes/No	1	1	1	0	0	1	0	1	1	1	
13	If so, please specify the media (air, water, soil, emissions). Level of detail.	None (A) 0 Industry Wide (B) 1 Corporation Specific (C) 2 Facility Specific (D) 3	3	3	3	0	0	2	0	1	3	3	
14	Does the government track and report non-compliance events to the public?	Yes/No	1	1	1	1	0	1	0	1	1	1	
15	Is there a requirement for reporting incidents?	Yes/No	1	1	1	1	1	1	1	1	1	1	
16	Is there a formal regulatory audit process in place for monitoring compliance?	Yes/No	1	0	1	1	1	1	1	1	1	1	
17	If there is a regulatory audit process, at what frequency is it implemented, or is it impromptu / ad hoc?	None (A) 0 Regular/Scheduled (B) 1 Impromptu/Ad Hoc (C) 2 Both (D) 3	3	0	3	2	3	3	1	2	1	2	
18	Is there a process to audit the regulator itself (e.g. Auditor general)?	Yes/No	1	1	1	1	0	1	0	0	1	0	
Project Stage: Closure Metric of Performance: Transparency													
19	Are facility closure plans available to the public?	Yes/No	1	1	1	1	0	1	0	1	1	1	
20	Does the government report on facility reclamation/reclamation certification?	Yes/No	0	0	1	1	0	1	0	1	1	0	
21	If an Orphan Well/Facility program exists, does it publicly report activities, progress and financials?	Yes/No	0	0	1	0	0	0	0	1	0	1	
22	Are companies required to document and report remediation and reclamation of facilities to regulators?	Yes/No	1	1	1	1	1	1	1	1	1	1	
23	Is the remediation and reclamation of facilities reported by regulators to stakeholders?	Yes/No	1	0	1	1	1	1	0	1	1	1	
24	Are there documented rates on the frequency of defaults where companies do not meet their end of facility life obligations?	Yes/No	0	0	1	1	0	0	0	0	1	0	
Total			29	25	20	29	23	17	25	5	22	26	24

Table 3: An International Comparison of Leading Oil and Gas Producing Regions - Compliance

	Country/Jurisdiction		Australia (Queensland)	Brazil	Canada (Alberta)	Ghana	Malaysia	Norway	Oman	UK	US Gulf Coast	US North Dakota
Question #	Survey Questions	Response Categories	Score	Score	Score	Score	Score	Score	Score	Score	Score	Score
Project Stage: Approvals Metric of Performance: Compliance												
1	Is a Construction Environmental Management Plan required to be submitted and approved by the regulatory authority?	Yes/No	1	1	1	1	1	1	1	1	1	1
2	If conditions are stipulated or put in place for a regulatory approval (e.g. licence, permit, etc.) are there mechanisms to check or ensure compliance with the approval?	Yes/No	1	1	1	1	1	1	1	1	1	1
3	If so, what are the mechanisms?	None (A) 0 Audits/Inspections (B) 1 Monitoring/Reporting (C) 1 Both (D) 2	2	1	2	1	2	1	2	2	2	2
4	Is there a standard terms of reference for the environmental assessment process?	Yes/No	1	1	1	1	1	0	1	0	1	0
5	If so, is there a set threshold for a project to meet the terms of reference to gain approval?	Yes/No	0	1	1	1	1	0	0	0	1	0
Project Stage: Operations Metric of Performance: Compliance												
6	Are there consequences for regulatory non-compliance?	Yes/No	1	1	1	1	1	1	1	1	1	1
7	Does the regulatory authority have the mandate to enforce environmental regulations?	Yes/No	1	1	1	1	1	1	1	1	1	1
8	List examples of regulatory mechanisms or tools for enforcement.	None (A) 0 Inspections/audits (B) 1 Shut In (C) 2 Fines (D) 2 Imprisonment/legal action (E) 2 All (F) 3	3	3	3	3	3	3	3	3	3	3
9	Does the government publish a list of regulatory infractions/non-compliance events/fines and penalties?	Yes/No	1	1	1	0	0	1	0	1	1	1
10	Is there whistleblower legislation to protect whistleblowers from losing their jobs or other consequences?	Yes/No	1	0	1	1	1	1	0	1	1	1
11	Can available testing laboratories achieve detection limits for legislated thresholds?	Yes/No	1	1	1	1	1	1	1	1	1	1
Project Stage: Closure Metric of Performance: Compliance												
12	Is there a regulatory mechanism that exists to ensure a company properly remediates and reclaims a decommissioned facility?	Yes/No	1	1	1	1	0	1	0	1	1	1
13A	Is term monitoring required past the end of life of the facility?	Yes/No	1	1	1	0	1	1	1	1	0	1
13B	If yes, how long is monitoring required past the end of life of a facility?	None (0) Case specific (A) 1 Until site has been reclaimed satisfactorily (B) 2	1	1	2	0	1	1	1	1	0	1
Total			18	16	15	18	13	15	14	13	15	15