

Index

No.	IPIECA/AP I2010	GRI 4.0	Content	Place in the Report
Strategy and Analysis				
1		1	Provide a statement from the most senior decision-maker of the organization (such as CEO, chair, or equivalent senior position) about the relevance of sustainability to the organization and the organization's strategy for addressing sustainability.	P4-7, 25-26
2		2	Provide a description of key impacts, risks, and opportunities.	p4-5, 13-14, 24-29, 30-32, 34-35
Organizational Profile				
3		3	Report the name of the organization.	cover, inside back cover, P2
4		4	Report the primary brands, products, and services.	P7, 39-43
5		5	Report the location of the organization's headquarters.	back cover
6		6	Report the number of countries where the organization operates, and names of countries where either the organization has significant operations or that are specifically relevant to the sustainability topics covered in the report.	P2, 23, 48, 51, 57-58
7		7	Report the nature of ownership and legal form.	P2
8		8	Report the markets served (including geographic breakdown, sectors served, and types of customers and beneficiaries).	P3, 10-14, 23, 43
9		9	Report the scale of the organization	P2-3
10		10	a. Report the total number of employees by employment contract and gender. b. Report the total number of permanent employees by employment type and gender. c. Report the total workforce by employees and supervised workers and by gender. d. Report the total workforce by region and gender. e. Report whether a substantial portion of the organization's work is performed by workers who are legally recognized as selfemployed, or by individuals other than employees or supervised workers, including employees and supervised employees of contractors. f. Report any significant variations in employment numbers (such as seasonal variations in employment in the tourism or agricultural industries).	P45, 67
11		11	Report the percentage of total employees covered by collective bargaining agreements.	P47
12		12	Describe the organization's supply chain.	P15-17, 38
13		13	Report any significant changes during the reporting period regarding the organization's size, structure, ownership, or its supply chain.	P2-3
14		14	Report whether and how the precautionary approach or principle is addressed by the organization.	P51, 28
15		15	List externally developed economic, environmental and social charters, principles, or other initiatives to which the organization subscribes or which it endorses.	P68, inside back cover
16		16	List memberships of associations (such as industry associations) and national or international advocacy organizations in which the organization.	P68
Identified Material Aspects and Boundaries				
17		17	a. List all entities included in the organization's consolidated financial statements or equivalent documents. b. Report whether any entity included in the organization's consolidated financial statements or equivalent documents is not covered by the report.	

18		18	a. Explain the process for defining the report content and the Aspect Boundaries. b. Explain how the organization has implemented the Reporting Principles for Defining Report Content.	P68
19		19	List all the material Aspects identified in the process for defining report content.	P68
20		20	For each material Aspect, report the Aspect Boundary within the organization.	P68
21		21	For each material Aspect, report the Aspect Boundary outside the organization.	inside back cover
22		22	Report the effect of any restatements of information provided in previous reports, and the reasons for such restatements.	
23		23	Report significant changes from previous reporting periods in the Scope and Aspect Boundaries.	
Stakeholder Engagement				
24		24	Provide a list of stakeholder groups engaged by the organization.	P16-17
25		25	Report the basis for identification and selection of stakeholders with whom to engage.	P15
26		26	Report the organization's approach to stakeholder engagement, including frequency of engagement by type and by stakeholder group, and an indication of whether any of the engagement was undertaken specifically as part of the report preparation process.	P15
27		27	Report key topics and concerns that have been raised through stakeholder engagement, and how the organization has responded to those key topics and concerns, including through its reporting. Report the stakeholder groups that raised each of the key topics and concerns.	P16-17
Report Profile				
28		28	Reporting period (such as fiscal or calendar year) for information provided.	cover, inside back cover
29		29	Date of most recent previous report (if any).	inside back cover
30		30	Reporting cycle (such as annual, biennial).	inside back cover
31		31	Provide the contact point for questions regarding the report or its contents.	inside back cover
32		32	a. Report the 'in accordance' option the organization has chosen. b. Report the GRI Content Index for the chosen option (see tables below). c. Report the reference to the External Assurance Report, if the report has been externally assured.	www.petrochina.com.cn
33		33	a. Report the organization's policy and current practice with regard to seeking external assurance for the report. b. If not included in the assurance report accompanying the sustainability report, report the scope and basis of any external assurance provided. c. Report the relationship between the organization and the assurance providers. d. Report whether the highest governance body or senior executives are involved in seeking assurance for the organization's sustainability report.	www.petrochina.com.cn
Governance				
34		34	Report the governance structure of the organization, including committees of the highest governance body. Identify any committees responsible for decision-making on economic, environmental and social impacts.	P10-12
35		35	Report the process for delegating authority for economic, environmental and social topics from the highest governance body to senior executives and other employees.	P10-11
36		36	Report whether the organization has appointed an executive-level position or positions with responsibility for economic, environmental and social topics, and whether post holders report directly to the highest governance body.	P10-11
37		37	Report processes for consultation between stakeholders and the highest governance body on economic, environmental and social topics. If consultation is delegated, describe to whom and any feedback processes to the highest governance body.	P10, 15

38		38	Report the composition of the highest governance body and its committees.	P11-12
39		39	Report whether the Chair of the highest governance body is also an executive officer (and, if so, his or her function within the organization's management and the reasons for this arrangement).	P11-12
40		40	Report the nomination and selection processes for the highest governance body and its committees, and the criteria used for nominating and selecting highest governance body members.	P11-12
41		41	Report processes for the highest governance body to ensure conflicts of interest are avoided and managed. Report whether conflicts of interest are disclosed to stakeholders.	P10-14
42		42	Report the highest governance body's and senior executives' roles in the development, approval, and updating of the organization's purpose, value or mission statements, strategies, policies, and goals related to economic, environmental and social impacts.	P11-12
43		43	Report the measures taken to develop and enhance the highest governance body's collective knowledge of economic, environmental and social topics.	P4-7, 25-29, 33, 37
44		44	a. Report the processes for evaluation of the highest governance body's performance with respect to governance of economic, environmental and social topics. b. Report actions taken in response to evaluation of the highest governance body's performance with respect to governance of economic, environmental and social topics, including, as a minimum, changes in membership and organizational practice.	P10, 13-14
45		45	a. Report the highest governance body's role in the identification and management of economic, environmental and social impacts, risks, and opportunities. Include the highest governance body's role in the implementation of due diligence processes. b. Report whether stakeholder consultation is used to support the highest governance body's identification and management of economic, environmental and social impacts, risks, and opportunities.	P11-12
46		46	Report the highest governance body's role in reviewing the effectiveness of the organization's risk management processes for economic, environmental and social topics.	P13
47		47	Report the frequency of the highest governance body's review of economic, environmental and social impacts, risks, and opportunities.	P10, 13, 14
48		48	Report the highest committee or position that formally reviews and approves the organization's sustainability report and ensures that all material Aspects are covered.	P10
49		49	Report the process for communicating critical concerns to the highest governance body.	P10
50		50	Report the nature and total number of critical concerns that were communicated to the highest governance body and the mechanism(s) used to address and resolve them.	
51		51	Report the remuneration policies for the highest governance body and senior executives.	P11-12
52		52	Report the process for determining remuneration. Report whether remuneration consultants are involved in determining remuneration and whether they are independent of management. Report any other relationships which the remuneration consultants have with the organization.	
53		53	Report how stakeholders' views are sought and taken into account regarding remuneration, including the results of votes on remuneration policies and proposals, if applicable.	
54		54	Report the ratio of the annual total compensation for the organization's highest-paid individual in each country of significant operations to the median annual total compensation for all employees (excluding the highest-paid individual) in the same country.	
55		55	Report the ratio of percentage increase in annual total compensation for the organization's highest-paid individual in each country of significant operations to the median percentage increase in annual total compensation for all employees (excluding the highest-paid individual) in the same country.	

Ethics and Integrity				
56		56	Describe the organization's values, principles, standards and norms of behavior such as codes of conduct and codes of ethics.	P2
57		57	Report the internal and external mechanisms for seeking advice on ethical and lawful behavior, and matters related to organizational integrity, such as helplines or advice lines.	P13-14
58		58	Report the internal and external mechanisms for reporting concerns about unethical or unlawful behavior, and matters related to organizational integrity, such as escalation through line management, whistleblowing mechanisms or hotlines.	P64
Economic Performance				
59	SE4 SE13	EC1	Report the direct economic value generated and distributed, including: revenues, operating costs, employee wages and benefits, payments to providers of capital, payments to government, community investments.	目录, 45, 53-55, 66
60		EC2	Report risks and opportunities posed by climate change that have the potential to generate substantive changes in operations, revenue or expenditure.	P4-5, 6-7
61		EC3	Report the coverage of the organization's defined benefit plan obligations.	P45
62		EC4	Report the total monetary value of financial assistance received by the organization from governments during the reporting period.	
63		EC5	Report the ratios of standard entry level wage by gender compared to local minimum wage at significant Locations of operation.	P45
64	SE5 SE6	EC6	Report the proportion of senior management hired from the local community at significant locations of operation.	P45, 51
65	SE4	EC7	Report the development and impact of infrastructure investments and services supported.	P53
66	SE6	EC8	Report the significant indirect economic impacts, including the extent of impacts.	P24-51
67	SE5 SE7	EC9	Report the proportion of spending on local suppliers at significant locations of operation.	P15-17, 57
Environment				
68		EN1	Materials used by weight or volume.	
69		EN2	Percentage of materials used that are recycled input materials.	P21-22
70	E2	EN3	Energy consumption within the organization.	table of contents, P33, 67
71	E2	EN4	Energy consumption outside of the organization.	
72	E3	EN5	Energy intensity.	
73	E2	EN6	Reduction of energy consumption.	P21-22, 28-29, 33
74		EN7	Reductions in energy requirements of products and services.	P28-29, 33
75	E6	EN8	Total water withdrawal by source.	
76	E6	EN9	Water sources significantly affected by withdrawal of water.	
77	E6	EN10	Percentage and total volume of water recycled and reused.	
78	E5	EN11	Operational sites owned, leased, managed in, or adjacent to, protected areas and areas of high biodiversity value outside protected areas.	
79	E5	EN12	Description of significant impacts of activities, products, and services on biodiversity in protected areas and areas of high biodiversity value outside protected areas.	P30
80	E5	EN13	Habitats protected or restored	P30
81		EN14	Total number of IUCN Red List species and national conservation list species with habitats in areas affected by the operations of the organization, by level of extinction risk.	
82	E1 E4	EN15	Direct greenhouse gas (GHG) emissions (scope1).	P67
83	E1 E4	EN16	Energy indirect greenhouse gas (GHG) emissions (scope2).	P67

84	E1	EN17	Other indirect greenhouse gas (GHG) emissions (scope 3).	P33
85	E1	EN18	Greenhouse gas (GHG) emissions intensity.	
86	E1	EN19	Reduction of greenhouse gas (GHG) emissions.	P33
87	E7	EN20	Emissions of ozone-depleting substances (ODS).	
88	E7	EN21	NOx, Sox, and other significant air emissions.	P33, 67
89	E9	EN22	Total water discharge by quality and destination.	P33
90	E10	EN23	Total weight of waste by type and disposal method.	P33
91	E8	EN24	Total number and volume of significant spills.	
92		EN25	Weight of transported, imported, exported, or treated waste deemed hazardous under the terms of the Basel convention annex I, II, III, VIII, and percentage of transported waste shipped internationally.	
93		EN26	Identity, size, protected status, and biodiversity value of water bodies and related habitats significantly affected by the organization's discharges of water and runoff.	
94		EN27	Extent of impact mitigation of environmental impacts of products and services.	P33-37
95		EN28	Percentage of products sold and their packaging materials that are reclaimed by category.	
96		EN29	Monetary value of significant fines and total number of non-monetary sanctions for non-compliance with environmental laws and regulations.	
97		EN30	Significant environmental impacts of transporting products and other goods and materials for the organization's operations, and transporting members of the workforce.	
98		EN31	Total environmental protection expenditures and investments by type.	P33
99		EN32	Percentage of new suppliers that were screened using environmental criteria.	
100		EN33	Significant actual and potential negative environmental impacts in the supply chain and actions taken.	P40-41
101		EN34	Number of grievances about environmental impacts filed, addressed, and resolved through formal grievance mechanisms.	
SOCIAL				
102		LA1	Total number and rate of new employee hires and employee turnover by age group, gender and region.	
103		LA2	Benefits provided to full-time employees that are not provided to temporary or part-time employees, by significant locations of operation.	
104		LA3	Return to work and retention rates after parental leave, by gender.	
105		LA4	Minimum notice periods regarding operational changes, including whether these are specified in collective agreements.	
106	HS1 HS2 SE16	LA5	Percentage of total workforce represented in formal joint management-worker health and safety committees that help monitor and advise on occupational health and safety programs.	P12, 45-48
107	HS3	LA6	Type of injury and rates of injury, occupational diseases, lost days, and absenteeism, and total number of work-related fatalities, by region and by gender.	P28-29, 47-48, 66
108	HS3	LA7	Workers with high incidence or high risk of diseases related to their occupation.	
109	HS2 SE16	LA8	Health and safety topics covered in formal agreements with trade unions.	P45-46
110	SE17	LA9	Average hours of training per year per employee by gender, and by employee category.	P48-50
111	SE17	LA10	Programs for skills management and lifelong learning that support the continued employability of employees and assist them in managing career endings.	P48-50
112	SE17	LA11	Percentage of employees receiving regular performance and career development reviews, by gender and by employee category.	P48-50

113	SE15	LA12	Composition of governance bodies and breakdown of employees per employee category according to gender, age group, minority group membership, and other indicators of diversity.	P45
114		LA13	Ratio of basic salary and remuneration of women to men by employee category, by significant locations of operation.	
115		LA14	Percentage of new suppliers that were screened using labor practices criteria.	P38-39
116		LA15	Significant actual and potential negative impacts for labor practices in the supply chain and actions taken.	P38-39
117		LA16	Number of grievances about labor practices filed, addressed, and resolved through formal grievance mechanisms.	
118	SE8	HR1	Total number and percentage of significant investment agreements and contracts that include human rights clauses or that underwent human rights screening.	
119	SE8	HR2	Total hours of employee training on human rights policies or procedures concerning aspects of human rights that are relevant to operations, including the percentage of employees trained.	P45-46
120	SE18	HR3	Total number of incidents of discrimination and corrective actions taken.	
121		HR4	Operations and suppliers identified in which the right to exercise freedom of association and collective bargaining may be violated or at significant risk, and measures taken to support these rights.	P45-46
122		HR5	Operations and suppliers identified as having significant risk for incidents of child labor, and measures taken to contribute to the effective abolition of child labor.	P45-46
123		HR6	Operations and suppliers identified as having significant risk for incidents of forced or compulsory labor, and measures to contribute to the elimination of all forms of forced or compulsory labor.	P45-46
124	SE10	HR7	Percentage of security personnel trained in the organization's human rights policies or procedures that are relevant to operations.	P51, 28
125	SE2	HR8	Total number of incidents of violations involving rights of indigenous peoples and actions taken.	
126	SE8 SE9	HR9	Total number and percentage of operations that have been subject to human rights reviews or impact assessments.	
127	SE9	HR10	Percentage of new suppliers that were screened using human rights criteria.	
128	SE9	HR11	Significant actual and potential negative human rights impacts in the supply chain and actions taken.	
129	SE9	HR12	Number of grievances about human rights impacts filed, addressed, and resolved through formal grievance mechanisms.	
130	SE1 SE2 SE3	S01	Percentage of operations with implemented local community engagement, impact assessments, and development programs.	P53-59
131	SE1	S02	Operations with significant actual or potential negative impacts on local communities.	P30-31, 57-59
132	SE11 SE12	S03	Total number and percentage of operations assessed for risks related to corruption and the significant risks identified.	P4-5, 14, 64
133	SE11	S04	Communication and training on anti-corruption policies and procedures.	P14, 64
134	SE11	S05	Confirmed incidents of corruption and actions taken.	P14, 64
135	SE14	S06	Total value of political contributions by country and recipient/beneficiary.	
136		S07	Total number of legal actions for anti-competitive behavior, anti-trust, and monopoly practices and their outcomes.	
137		S08	Monetary value of significant fines and total number of non-monetary sanctions for non-compliance with laws and regulations.	

138		S09	Percentage of new suppliers that were screened using criteria for impacts on society.	P16-17, 38-39
139		S010	Significant actual and potential negative impacts on society in the supply chain and actions taken.	P38-39
140		S011	Number of grievances about impacts on society filed, addressed, and resolved through formal grievance mechanisms.	
Product Responsibility Performance Indicators				
141	HS4	PR1	Percentage of significant product and service categories for which health and safety impacts are assessed for improvement.	P37-43
142	HS4	PR2	Total number of incidents of non-compliance with regulations and voluntary codes concerning the health and safety impacts of products and services during their life cycle, by type of outcomes.	P25-27, 40-43
143	HS4	PR3	Type of product and service information required by the organization's procedures for product and service information and labeling, and percentage of significant product and service categories subject to such information requirements.	P39-41
144	HS4	PR4	Total number of incidents of non-compliance with regulations and voluntary codes concerning product and service information and labeling, by type of outcomes.	P9, 15-17, 42-43
145		PR5	Results of surveys measuring customer satisfaction.	
146		PR6	Sale of banned or disputed products.	
147	HS4	PR7	Total number of incidents of non-compliance with regulations and voluntary codes concerning marketing communications, including advertising, promotion, and sponsorship, by type of outcomes.	
148		PR8	Total number of substantiated complaints regarding breaches of customer privacy and losses of customer data.	
149		PR9	Monetary value of significant fines for non-compliance with laws and regulations concerning the provision and use of products and services.	