



GRI, UN SDGs, UNGC, WEF, SASB, IR, TCFD and CHRB Content Index



Global Reporting Initiative (GRI) content index

GRI STANDARD/ OTHER SOURCE	DISCLOSURE	LOCATION	OMISSION			GRI SECTOR STANDARD REF. NO.	SDG Targets	UNGC Principles	WEF	SASB
			REQUIREMENT(S) OMITTED	REASON	EXPLANATION					
General disclosures										
GRI 2: General Disclosures 2021	2-1 Organizational details	56-1 One Report 2022 (Page 6, 41, 446) https://www.pttplc.com/en/About/About-Ptt/Background.aspx	A gray cell indicates that reasons for omission are not permitted for the disclosure or that a GRI Sector Standard reference number is not available.							
	2-2 Entities included in the organization's sustainability reporting	56-1 One Report 2022 (Page 446) https://www.pttplc.com/en/About/About-Ptt/Background.aspx								
	2-3 Reporting period, frequency and contact point	56-1 One Report 2022 (Page 446) https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilityreport.aspx								
	2-4 Restatements of information	56-1 One Report 2022 (Page 446) https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilityreport.aspx								
	2-5 External assurance	56-1 One Report 2022 (Page 447) https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilityreport.aspx				16.6	Principle 10			
	2-6 Activities, value chain and other business relationships	56-1 One Report 2022 (Page 065-089, 112-113) https://www.pttplc.com/en/About/About-Ptt/CompanyProfile.aspx							EM-EP-000.A	
	2-7 Employees	PTT Performance Summary https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilityreport.aspx				1.2, 1.4, 3.1, 3.2, 3.3, 3.4, 3.7, 3.8, 4.3, 5.1, 5.4, 5.5, 8.5, 10.3	Principle 6			
	2-8 Workers who are not employees	PTT Performance Summary https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilityreport.aspx				8.5				
	2-9 Governance structure and composition	56-1 One Report 2022 (Page 259-261) https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Corporategovernance.aspx				5.2, 5.5, 8.1, 8.3, 8.5, 8.7, 8.8, 16.1, 16.2, 16.3, 16.4, 16.5, 16.6, 16.7	Principle 1 Principle 6 Principle 7 Principle 10	Governance: Quality of Governing Body - Governance body composition		
	2-10 Nomination and selection of the highest governance body	56-1 One Report 2022 (Page 259, 267-268) https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Corporategovernance.aspx				5.5, 16.7				
	2-11 Chair of the highest governance body	56-1 One Report 2022 (Page 260) https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Corporategovernance.aspx				16.6				
	2-12 Role of the highest governance body in overseeing the management of impacts	56-1 One Report 2022 (Page 261-263) https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Corporategovernance.aspx				5.2, 5.5, 8.1, 8.3, 8.5, 8.7, 8.8, 16.1, 16.2, 16.3, 16.4, 16.5, 16.6, 16.7	Principle 1 Principle 7	Governance:Governing purpose - Setting purpose, Governance:Governing purpose - Purpose-led management, Governance: Stakeholder Engagement - Material issues impacting stakeholders		
	2-13 Delegation of responsibility for managing impacts	56-1 One Report 2022 (Page 265-272) https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Corporategovernance.aspx				5.2, 5.5, 8.1, 8.3, 8.5, 8.7, 8.8, 16.1, 16.2, 16.3, 16.4, 16.5,16.6, 16.7	Principle 1 Principle 7 Principle 10			

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GRI 2: General Disclosures 2021	2-14 Role of the highest governance body in sustainability reporting	56-1 One Report 2022 (Page 269-271) https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Corporategovernance.aspx					5.5, 8.1, 8.3, 8.5, 8.7, 8.8, 16.1, 16.2, 16.3, 16.4, 16.5, 16.6, 16.7	Principle 1 Principle 7		
	2-15 Conflicts of interest	56-1 One Report 2022 (Page 114) https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Fairpractice.aspx					16.6			
	2-16 Communication of critical concerns	https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Riskandcrisismanagement.aspx								
	2-17 Collective knowledge of the highest governance body	56-1 One Report 2022 (Page 265, 295-298) https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Corporategovernance.aspx								
	2-18 Evaluation of the performance of the highest governance body	56-1 One Report 2022 (Page 299-300) https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Corporategovernance.aspx								
	2-19 Remuneration policies	56-1 One Report 2022 (Page 280-282, 304-309) https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Corporategovernance.aspx						Principle 1 Principle 7 Principle 10	Governance: Quality of Governing Body Remuneration	
	2-20 Process to determine remuneration	56-1 One Report 2022 (Page 269, 280-282) https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Corporategovernance.aspx								
	2-21 Annual total compensation ratio	https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Corporategovernance.aspx PTT Performance Summary https://www.pttplc.com/en/Sustainability/Sustainabilityreport.aspx							People: Dignity and equality - Pay gap (%)	
	2-22 Statement on sustainable development strategy	56-1 One Report 2022 (Page 28-31) https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilitystrategy.aspx					5.5, 8.1, 8.3, 8.5, 8.7, 8.8, 16.1, 16.2, 16.3, 16.4, 16.5, 16.6, 16.7	Principle 1 Principle 7		
	2-23 Policy commitments	56-1 One Report 2022 (Page 135-136) https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilitystrategy.aspx https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Riskandcrisismanagement.aspx https://www.pttplc.com/en/Sustainability/Social/Humanright.aspx					1.1, 1.2, 1.3, 1.4, 1.5, 1.a, 1.b, 2.1, 2.3, 2.4, 2.5, 2.a., 2.c., 3.1, 3.2, 3.3, 3.4, 3.7, 3.8, 3.9, 4.1, 4.2, 4.3, 4.4, 4.5, 4.7, 5.1, 5.2, 5.4, 5.5, 5.6, 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 7.1, 7.2, 7.3, 8.1, 8.3, 8.4, 8.5, 8.6, 8.7, 8.8, 9.1, 9.2, 9.4, 9.5, 10.1, 10.2, 10.3, 10.4, 10.7, 11.1, 11.3, 11.5, 12.1, 12.2, 12.3, 12.4, 12.5, 12.6, 13.1, 13.2, 13.3, 13.a, 13.b, 14.1, 14.2, 14.3, 15.1, 15.2, 15.3, 15.4, 15.5, 15.a, 15.b, 16.1, 16.2, 16.3, 16.4, 16.5, 16.6, 16.7	Principle 1 Principle 2 Principle 3 Principle 4 Principle 5 Principle 6 Principle 7 Principle 8 Principle 10		EM-EP-510a.2

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GRI 2: General Disclosures 2021	2-24 Embedding policy commitments	56-1 One Report 2022 (Page 135) https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilitystrategy.aspx								
	2-25 Processes to remediate negative impacts	56-1 One Report 2022 (Page 135, 147) https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilitystrategy.aspx					5.2, 5.5, 8.1, 8.3, 8.5, 8.7, 8.8, 16.1,16.2, 16.3, 16.4, 16.5, 16.6, 16.7	Principle 1 Principle 7 Principle 10		
	2-26 Mechanisms for seeking advice and raising concerns	56-1 One Report 2022 (Page 135, 147) https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Fairpractice.aspx					5.2, 5.5, 8.1, 8.3, 8.5, 8.7, 8.8, 16.1, 16.2, 16.3, 16.4, 16.5, 16.6, 16.7	Principle 1 Principle 3 Principle 7 Principle 10	Governance: Ethical Behaviour - Protected ethics advice and reporting mechanisms	EM-EP-510a.2
	2-27 Compliance with laws and regulations	56-1 One Report 2022 (Page 135, 138-139, 255, 341) https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Fairpractice.aspx								
	2-28 Membership associations	https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Network.aspx								
	2-29 Approach to stakeholder engagement	56-1 One Report 2022 (Page 143-148) https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Stakeholderengagement.aspx						Governance: Stakeholder Engagement - Material issues impacting stakeholders		
	2-30 Collective bargaining agreements	https://www.pttplc.com/en/Sustainability/Social/Sustainablehumanresourcemanagement.aspx					8.5, 8.8	Principle 3		
Material topics										
GRI 3: Material Topics 2021	3-1 Process to determine material topics	56-1 One Report (Page 149) https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilitystrategy.aspx	A gray cell indicates that reasons for omission are not permitted for the disclosure or that a GRI Sector Standard reference number is not available.							
	3-2 List of material topics	56-1 One Report (Page 150-155) https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilitystrategy.aspx							Governance: Stakeholder Engagement - Material issues impacting stakeholders	
Economic performance										
GRI 3: Material Topics 2021	3-3 Management of material topics	56-1 One Report (Page 152-155)								
GRI 201: Economic Performance 2016	201-1 Direct economic value generated and distributed	56-1 One Report (Page 156-157, 174-183) PTT Performance Summary https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilityreport.aspx				11.14.2	8.1, 8.2, 9.1, 9.4, 9.5		Prosperity: Employment and wealth generation - Economic Contribution, Prosperity: Community and social vitality - Total tax paid, Prosperity: Community and social vitality - Additional tax remitted, Prosperity: Community and social vitality - Total tax paid by country for significant locations	

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			REQUIREMENT(S) OMITTED	REASON	EXPLANATION					
GRI 201: Economic Performance 2016	201-2 Financial implications and other risks and opportunities due to climate change	https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Riskandcrisismanagement.aspx https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilitystrategy.aspx				11.2.2	1.5, 2.1, 2.3, 2.4, 3.2, 3.4, 3.8, 3.9, 6.1, 6.3, 6.4, 6.5, 6.6, 7.1, 7.2, 7.3, 8.4, 11.3, 11.5, 12.1, 12.2, 12.3, 12.4, 12.5, 12.6, 13.1, 13.2, 13.3, 13.a, 13.b, 14.1, 14.2, 14.3, 15.1, 15.2, 15.3, 15.4, 15.5, 15.a, 15.b	Principle 7 Principle 8 Principle 9		
	201-3 Defined benefit plan obligations and other retirement plans			Not applicable	Not required to disclose by GRI 11: Oil and Gas sector 2021	Not applicable				
	201-4 Financial assistance received from government	PTT audited consolidated financial statements as at 31 December 2022, - Government grants (PTT group recognizes the grants as a part of income in profit or loss) (P. 32) - Promotional privileges (Tax privileges) Notes to Financial Statement no. 42, Promotional privileges (P.214-215) https://ptt.listedcompany.com/misc/FS/2022/20230217-ptt-fs-fy2022-en.pdf PTT Performance Summary https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilityreport.aspx				11.21.3			Prosperity: Employment and wealth generation - Economic contribution	
Market presence										
GRI 3: Material Topics 2021	3-3 Management of material topics	56-1 One Report (Page 152-155)								
GRI 202: Market Presence 2016	202-1 Ratios of standard entry level wage by gender compared to local minimum wage	PTT Performance Summary https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilityreport.aspx		Not applicable	Not required by GRI 11: Oil and Gas sector 2021	Not applicable	1.2, 5.1, 8.5		People: Dignity and equality - Pay equality	
	202-2 Proportion of senior management hired from the local community	https://www.pttplc.com/en/Sustainability/Social/Sustainablehumanresourcemanagement.aspx				11.11.2	8.5			
Indirect economic impacts										
GRI 3: Material Topics 2021	3-3 Management of material topics	56-1 One Report (Page 152-155)								
GRI 203: Indirect Economic Impacts 2016	203-1 Infrastructure investments and services supported	https://www.pttplc.com/en/Sustainability/Social/Corporatecitizenship.aspx				11.14.4	5.4, 9.1, 9.4, 11.2		Prosperity: Employment and wealth generation - Infrastructure investments and services supported	
	203-2 Significant indirect economic impacts	56-1 One Report (Page 156-157, 177-183) https://www.pttplc.com/en/Sustainability/Social/Corporatecitizenship.aspx				11.14.5	1.2, 1.4, 3.8, 8.2, 8.3, 8.5		Prosperity: Employment and wealth generation - Significant indirect economic impacts	

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Procurement practices										
GRI 3: Material Topics 2021	3-3 Management of material topics	56-1 One Report (Page 152-155)								
GRI 204: Procurement Practices 2016	204-1 Proportion of spending on local suppliers	https://www.pttplc.com/en/Sustainability/Economics/Supplychainmanagement.aspx				11.14.6	1.2, 8.3			
Anti-corruption										
GRI 3: Material Topics 2021	3-3 Management of material topics	56-1 One Report (Page 152-155)								
GRI 205: Anti-corruption 2016	205-1 Operations assessed for risks related to corruption					11.20.2	5.2, 5.5, 8.1, 8.3, 8.5, 8.7, 8.8, 16.1, 16.2, 16.3, 16.4, 16.5, 16.6, 16.7	Principle 1 Principle 7 Principle 10		EM-EP-510a.2
GRI 205: Anti-corruption 2016	205-2 Communication and training about anti-corruption policies and procedures	56-1 One Report (Page 253-255, 311) https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Fairpractice.aspx				11.20.3	16.4, 16.5, 16.6	Principle 10	Governance: Ethical Behaviour - Anti-corruption	
	205-3 Confirmed incidents of corruption and actions taken	https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Fairpractice.aspx				11.20.4	16.4, 16.5, 16.6	Principle 10	Governance: Ethical Behaviour - Anti-corruption	
	Additional Sector Disclosures: Describe the approach to contract transparency	56-1 One Report (Page 245)				11.20.5				
	Additional Sector Disclosures: List the organization's beneficial owners and explain how the organization identifies the beneficial owners of business partners, including joint ventures and suppliers	56-1 One Report (Page 63-112)				11.20.6				
Anti-competitive behavior										
GRI 3: Material Topics 2021	3-3 Management of material topics	56-1 One Report (Page 152-155)								
GRI 206: Anti-competitive Behavior 2016	206-1 Legal actions for anti-competitive behavior, anti-trust, and monopoly practices					11.19.2	16.3			EM-EP-510a.2
Tax										
GRI 3: Material Topics 2021	3-3 Management of material topics	56-1 One Report (Page 152-155)								

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GRI 207: Tax 2019	207-1 Approach to tax	https://www.pttplc.com/en/Sustainability/Economics/Taxstrategy.aspx				11.21.4	1.1, 1.3, 10.4, 17.1, 17.3			
	207-2 Tax governance, control, and risk management	https://www.pttplc.com/en/Sustainability/Economics/Taxstrategy.aspx				11.21.5	1.1, 1.3, 10.4, 17.1, 17.3			
	207-3 Stakeholder engagement and management of concerns related to tax	https://www.pttplc.com/en/Sustainability/Economics/Taxstrategy.aspx				11.21.6	1.1, 1.3, 10.4, 17.1, 17.3			
	207-4 Country-by-country reporting	Revenue Transparency https://www.pttplc.com/en/Sustainability/Economics/Taxstrategy.aspx				11.21.7	1.1, 1.3, 10.4, 17.1, 17.3			
	Additional Sector Disclosures: For oil and gas purchased from the state, or from third parties appointed by the state to sell on their behalf			Not applicable	Not applicable for the organization	11.21.8				
Materials										
GRI 3: Material Topics 2021	3-3 Management of material topics	56-1 One Report (Page 152-155)								
GRI 301: Materials 2016	301-1 Materials used by weight or volume			Not applicable	Not required to disclose by GRI 11: Oil and Gas sector 2021	Not applicable	8.4, 12.2			
	301-2 Recycled input materials used			Not applicable	Not required to disclose by GRI 11: Oil and Gas sector 2021	Not applicable	8.4, 12.2, 12.5			
	301-3 Reclaimed products and their packaging materials			Not applicable	Not required to disclose by GRI 11: Oil and Gas sector 2021	Not applicable	8.4, 12.2, 12.5			
Energy										
GRI 3: Material Topics 2021	3-3 Management of material topics	56-1 One Report (Page 152-155)								
GRI 302: Energy 2016	302-1 Energy consumption within the organization	https://www.pttplc.com/en/Sustainability/Environment/Climatechangemanagement.aspx PTT Performance Summary https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilityreport.aspx				11.1.2	1.5, 2.4, 7.2, 7.3, 8.4, 11.3, 12.2, 12.4, 13.1, 13.2, 13.3, 13.a, 13.b, 14.3	Principle 7 Principle 8 Principle 9		
	302-2 Energy consumption outside of the organization	https://www.pttplc.com/en/Sustainability/Environment/Climatechangemanagement.aspx PTT Performance Summary https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilityreport.aspx				11.1.3	7.2, 7.3, 8.4, 12.2, 13.1			

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GRI 302: Energy 2016	302-3 Energy intensity	56-1 One Report 2022 (Page 166) PTT Performance Summary https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilityreport.aspx				11.1.4	7.3, 8.4, 12.2, 13.1			
	302-4 Reduction of energy consumption			Not applicable	Not required by GRI 11: Oil and Gas sector 2021	Not applicable	7.3, 8.4, 12.2, 13.1			
	302-5 Reductions in energy requirements of products and services			Not applicable	Not required by GRI 11: Oil and Gas sector 2021	Not applicable	7.3, 8.4, 12.2, 13.1			
Water and effluents										
GRI 3: Material Topics 2021	3-3 Management of material topics	56-1 One Report (Page 152-155)								
GRI 303: Water and Effluents 2018	303-1 Interactions with water as a shared resource	https://www.pttplc.com/en/Sustainability/Environment/Water.aspx				11.6.2	2.1, 2.3, 6.1, 6.3, 6.4, 6.5, 6.6, 6.a, 6.b, 9.4, 11.3, 11.5, 12.1, 12.2, 12.4	Principle 7 Principle 8 Principle 9	Planet: Water pollution - Impact of water pollution	
	303-2 Management of water discharge-related impacts	https://www.pttplc.com/en/Sustainability/Environment/Water.aspx				11.6.3	2.1, 2.3, 6.1, 6.3, 6.4, 6.5, 6.6, 9.4, 11.3, 11.5, 12.1, 12.2, 12.4	Principle 7 Principle 8 Principle 9		
	303-3 Water withdrawal	https://www.pttplc.com/en/Sustainability/Environment/Water.aspx PTT Performance Summary https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilityreport.aspx				11.6.4	2.1, 2.3, 6.1, 6.3, 6.4, 6.5, 6.6, 9.4, 11.3, 11.5, 12.1, 12.2, 12.4	Principle 7 Principle 8 Principle 9	Planet: Freshwater availability - Water consumption and withdrawal in water-stressed areas	EM-EP-140a.1
	303-4 Water discharge	https://www.pttplc.com/en/Sustainability/Environment/Water.aspx PTT Performance Summary https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilityreport.aspx				11.6.5	6.3		EM-EP-140a.2	
	303-5 Water consumption	https://www.pttplc.com/en/Sustainability/Environment/Water.aspx PTT Performance Summary https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilityreport.aspx				11.6.6	6.4		EM-EP-140a.1	
Biodiversity										
GRI 3: Material Topics 2021	3-3 Management of material topics	56-1 One Report (Page 152-155)								
GRI 304: Biodiversity 2016	304-1 Operational sites owned, leased, managed in, or adjacent to, protected areas and areas of high biodiversity value outside protected areas	https://www.pttplc.com/en/Sustainability/Environment/Biodiversity.aspx				11.4.2	2.1, 2.3, 6.6, 12.2, 12.4, 14.1, 14.2, 15.1, 15.2, 15.3, 15.4, 15.5, 15.a, 15.b	Principle 7 Principle 8	Planet: Nature loss - Land use and ecological sensitivity	EM-EP-160a.3

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GRI 304: Biodiversity 2016	304-2 Significant impacts of activities, products and services on biodiversity	https://www.pttplc.com/en/Sustainability/Environment/Biodiversity.aspx				11.4.3	6.6, 14.2, 15.1, 15.5			
	304-3 Habitats protected or restored	https://www.pttplc.com/en/Sustainability/Environment/Biodiversity.aspx				11.4.4	2.1, 2.3, 6.6, 12.2, 12.4, 14.1, 14.2, 15.1, 15.2, 15.3, 15.4, 15.5, 15.a, 15.b	Principle 7 Principle 8 Principle 9		
	304-4 IUCN Red List species and national conservation list species with habitats in areas affected by operations	https://www.pttplc.com/en/Sustainability/Environment/Biodiversity.aspx				11.4.5	6.6, 14.2, 15.1, 15.5			
Emissions										
GRI 3: Material Topics 2021	3-3 Management of material topics	56-1 One Report (Page 152-155)								
GRI 305: Emissions 2016	305-1 Direct (Scope 1) GHG emissions	56-1 One Report 2022 (Page 165) https://www.pttplc.com/en/Sustainability/Environment/Climatechangemanagement.aspx PTT Performance Summary https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilityreport.aspx				11.1.5	1.5, 2.4, 3.9, 11.3, 12.4, 13.1, 13.2, 13.3, 13.a, 13.b, 14.3, 15.2	Principle 7 Principle 8	Planet: Climate change - Greenhouse gas (GHG) emissions	EM-EP-110a.1, EM-EP-110a.2
	305-2 Energy indirect (Scope 2) GHG emissions	56-1 One Report 2022 (Page 165) https://www.pttplc.com/en/Sustainability/Environment/Climatechangemanagement.aspx PTT Performance Summary https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilityreport.aspx				11.1.6	1.5, 2.4, 3.9, 11.3, 12.4, 13.1, 13.2, 13.3, 13.a, 13.b, 14.3, 15.2	Principle 7 Principle 8	Planet: Climate change - Greenhouse gas (GHG) emissions	
	305-3 Other indirect (Scope 3) GHG emissions	56-1 One Report 2022 (Page 165) https://www.pttplc.com/en/Sustainability/Environment/Climatechangemanagement.aspx PTT Performance Summary https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilityreport.aspx				11.1.7	1.5, 2.4, 3.9, 11.3, 12.4, 13.1, 13.2, 13.3, 13.a, 13.b, 14.3, 15.2	Principle 7 Principle 8	Planet: Climate change - Greenhouse gas (GHG) emissions	
	305-4 GHG emissions intensity	56-1 One Report 2022 (Page 166) https://www.pttplc.com/en/Sustainability/Environment/Climatechangemanagement.aspx PTT Performance Summary https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilityreport.aspx				11.1.8	13.1, 14.3, 15.2			
	305-5 Reduction of GHG emissions	56-1 One Report 2022 (Page 158-166) https://www.pttplc.com/en/Sustainability/Environment/Climatechangemanagement.aspx PTT Performance Summary https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilityreport.aspx				11.2.3	13.1, 14.3, 15.2			EM-EP-110a.3

GRI STANDARD/ OTHER SOURCE	DISCLOSURE	LOCATION	OMISSION			GRI SECTOR STANDARD REF. NO.	SDG Targets	UNGC Principles	WEF	SASB
			REQUIREMENT(S) OMITTED	REASON	EXPLANATION					
GRI 305: Emissions 2016	305-6 Emissions of ozone-depleting substances (ODS)			Not applicable	Not required to disclose by GRI 11: Oil and Gas sector 2021	Not applicable				
	305-7 Nitrogen oxides (NOx), sulfur oxides (SOx), and other significant air emissions	https://www.pttplc.com/en/Sustainability/Environment/Air.aspx				11.3.2	3.2, 3.4, 3.8, 3.9, 6.3, 12.4, 14.3, 15.2	Principle 7 Principle 8	Planet: Air pollution - Air pollution	EM-EP-120a.1
Climate adaptation, resilience, and transition	Additional Sector Disclosures: Describe the organization's approach to public policy development and lobbying on climate change	https://www.pttplc.com/en/Sustainability/Environment/Climatechangemanagement.aspx https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Network.aspx				11.2.4				
Waste										
GRI 3: Material Topics 2021	3-3 Management of material topics	56-1 One Report (Page 152-155)								
GRI 306: Waste 2020	306-1 Waste generation and significant waste-related impacts	https://www.pttplc.com/en/Sustainability/Environment/Waste.aspx				11.5.2	3.9, 6.3, 6.6, 11.6, 12.4, 12.5		Planet: Solid waste - Impact of solid waste disposal	
	306-2 Management of significant waste-related impacts	https://www.pttplc.com/en/Sustainability/Environment/Waste.aspx				11.5.3	3.9, 6.3, 8.4, 11.6, 12.4, 12.5			EM-EP-540a.2
	306-3 Waste generated	https://www.pttplc.com/en/Sustainability/Environment/Waste.aspx PTT Performance Summary https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilityreport.aspx				11.5.4	3.9, 6.3, 6.6, 11.6, 12.2, 12.3, 12.4, 12.5, 14.1, 14.2, 15.1, 15.2, 15.3, 15.4, 15.5, 15.a, 15.b	Principle 7 Principle 8		
	306-4 Waste diverted from disposal	https://www.pttplc.com/en/Sustainability/Environment/Waste.aspx PTT Performance Summary https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilityreport.aspx				11.5.5	3.9, 6.3, 11.6, 12.2, 12.4, 12.5, 14.1, 14.2, 15.1, 15.2, 15.3, 15.4, 15.5, 15.a, 15.b	Principle 7 Principle 8		
	306-5 Waste directed to disposal	https://www.pttplc.com/en/Sustainability/Environment/Waste.aspx PTT Performance Summary https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilityreport.aspx				11.5.6	3.9, 6.3, 6.6, 11.6, 12.2, 12.4, 12.5, 14.1, 14.2, 15.1, 15.2, 15.3, 15.4, 15.5, 15.a, 15.b	Principle 7 Principle 8		
Asset integrity and critical incident management	Additional Sector Disclosures: Report the total number of Tier 1 and Tier 2 process safety events, and a breakdown of this total by business activity	56-1 One Report (Page 167, 172)				11.8.3				
Asset integrity and critical incident management	Additional Sector Disclosures: The following additional sector disclosures are for organizations with oil sands mining operations			Not applicable	the organization has no oil sands in operations	11.8.4				

GRI STANDARD/ OTHER SOURCE	DISCLOSURE	LOCATION	OMISSION			GRI SECTOR STANDARD REF. NO.	SDG Targets	UNGC Principles	WEF	SASB
			REQUIREMENT(S) OMITTED	REASON	EXPLANATION					
GRI 306: Effluents and Waste (2016)	306-3 Significant spills (2016)	https://www.pttplc.com/en/Sustainability/Environment/Spill.aspx PTT Performance Summary https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilityreport.aspx				11.8.2	3.9, 6.6, 12.4, 15.1	Principle 7 Principle 8		
Supplier environmental assessment										
GRI 3: Material Topics 2021	3-3 Management of material topics	56-1 One Report (Page 152-155)								
GRI 308: Supplier Environmental Assessment 2016	308-1 New suppliers that were screened using environmental criteria	https://www.pttplc.com/en/Sustainability/Economics/Supplychainmanagement.aspx								
	308-2 Negative environmental impacts in the supply chain and actions taken			Not applicable	Not required to disclose by GRI 11: Oil and Gas sector 2021	Not applicable				
Employment										
GRI 3: Material Topics 2021	3-3 Management of material topics	56-1 One Report (Page 152-155)								
GRI 401: Employment 2016	401-1 New employee hires and employee turnover	https://www.pttplc.com/en/Sustainability/Social/Sustainablehumanresourcemanagement.aspx PTT Performance Summary https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilityreport.aspx				11.10.2	5.1, 8.2, 8.5, 8.6, 10.3		Prosperity: Employment and wealth generation - Absolute number and rate of employment	
	401-2 Benefits provided to full-time employees that are not provided to temporary or part-time employees	https://www.pttplc.com/en/Sustainability/Social/Sustainablehumanresourcemanagement.aspx				11.10.3	3.2, 5.4, 8.2, 8.5			
	401-3 Parental leave	https://www.pttplc.com/en/Sustainability/Social/Sustainablehumanresourcemanagement.aspx PTT Performance Summary https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilityreport.aspx				11.10.4	5.1, 5.4, 8.5			
Labor/management relations										
GRI 3: Material Topics 2021	3-3 Management of material topics	56-1 One Report (Page 152-155)								
GRI 402: Labor/Management Relations 2016	402-1 Minimum notice periods regarding operational changes	https://www.pttplc.com/en/Sustainability/Social/Sustainablehumanresourcemanagement.aspx				11.10.5	8.8			

GRI STANDARD/ OTHER SOURCE	DISCLOSURE	LOCATION	OMISSION			GRI SECTOR STANDARD REF. NO.	SDG Targets	UNGC Principles	WEF	SASB
			REQUIREMENT(S) OMITTED	REASON	EXPLANATION					
Occupational health and safety										
GRI 3: Material Topics 2021	3-3 Management of material topics	56-1 One Report (Page 152-155)								
GRI 403: Occupational Health and Safety 2018	403-1 Occupational health and safety management system	56-1 One Report 2022 (Page 167-168) https://www.pttplc.com/en/Sustainability/Social/Securitysafetyandoccupationalhealth.aspx				11.9.2	8.8			
	403-2 Hazard identification, risk assessment, and incident investigation	56-1 One Report 2022 (Page 167-169) https://www.pttplc.com/en/Sustainability/Social/Securitysafetyandoccupationalhealth.aspx				11.9.3	8.8		People: Health & wellbeing - Well-Being (%)	
	403-3 Occupational health services	56-1 One Report 2022 (Page 168-169) https://www.pttplc.com/en/Sustainability/Social/Securitysafetyandoccupationalhealth.aspx				11.9.4	8.8			
	403-4 Worker participation, consultation, and communication on occupational health and safety	https://www.pttplc.com/en/Sustainability/Social/Securitysafetyandoccupationalhealth.aspx				11.9.5	8.8, 16.7			
	403-5 Worker training on occupational health and safety	56-1 One Report 2022 (Page 168-169) https://www.pttplc.com/en/Sustainability/Social/Securitysafetyandoccupationalhealth.aspx				11.9.6	8.8			EM-EP- 320a.1
	403-6 Promotion of worker health	56-1 One Report 2022 (Page 169) https://www.pttplc.com/en/Sustainability/Social/Securitysafetyandoccupationalhealth.aspx				11.9.7	3.3, 3.5, 3.7, 3.8		People: Health & wellbeing - Health and Safety (%)	
	403-7 Prevention and mitigation of occupational health and safety impacts directly linked by business relationships	56-1 One Report 2022 (Page 169-172) https://www.pttplc.com/en/Sustainability/Social/Securitysafetyandoccupationalhealth.aspx				11.9.8	8.8			
	403-8 Workers covered by an occupational health and safety management system	56-1 One Report 2022 (Page 168) https://www.pttplc.com/en/Sustainability/Social/Securitysafetyandoccupationalhealth.aspx				11.9.9	8.8			EM-EP- 320a.2
	403-9 Work-related injuries	https://www.pttplc.com/en/Sustainability/Social/Securitysafetyandoccupationalhealth.aspx PTT Performance Summary https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilityreport.aspx				11.9.10	1.2, 1.4, 3.1, 3.2, 3.3, 3.4, 3.6, 3.7, 3.8, 3.9, 8.8, 16.1	Principle 3 Principle 4 Principle 5 Principle 6	People: Health & wellbeing - Health and Safety (%)	EM-EP- 320a.1
	403-10 Work-related ill health	https://www.pttplc.com/en/Sustainability/Social/Securitysafetyandoccupationalhealth.aspx PTT Performance Summary https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilityreport.aspx				11.9.11	3.3, 3.4, 3.9, 8.8, 16.1		People: Health & wellbeing - Well-Being (%)	EM-EP- 320a.1
Training and education										
GRI 3: Material Topics 2021	3-3 Management of material topics	56-1 One Report (Page 152-155)								

GRI STANDARD/ OTHER SOURCE	DISCLOSURE	LOCATION	OMISSION			GRI SECTOR STANDARD REF. NO.	SDG Targets	UNGC Principles	WEF	SASB
			REQUIREMENT(S) OMITTED	REASON	EXPLANATION					
GRI 404: Training and Education 2016	404-1 Average hours of training per year per employee	https://www.pttplc.com/en/Sustainability/Social/Sustainablehumanresourcemanagement.aspx PTT Performance Summary https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilityreport.aspx				11.10.6	4.3, 4.4, 4.5, 5.1, 8.5, 10.3		People: Skills for the future - Training provided (#)	
	404-2 Programs for upgrading employee skills and transition assistance programs	https://www.pttplc.com/en/Sustainability/Social/Sustainablehumanresourcemanagement.aspx				11.7.3, 11.10.7	8.5			
	404-3 Percentage of employees receiving regular performance and career development reviews	https://www.pttplc.com/en/Sustainability/Social/Sustainablehumanresourcemanagement.aspx					5.1, 8.5, 10.3			
Diversity and equal opportunity										
GRI 3: Material Topics 2021	3-3 Management of material topics	56-1 One Report (Page 152-155)								
GRI 405: Diversity and Equal Opportunity 2016	405-1 Diversity of governance bodies and employees	https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Corporategovernance.aspx PTT Performance Summary https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilityreport.aspx				11.11.5	5.1, 5.5, 8.5, 8.7, 8.8, 16.7	Principle 1 Principle 6	Governance: Quality of Governing Body - Governance body composition	
	405-2 Ratio of basic salary and remuneration of women to men	https://www.pttplc.com/en/Sustainability/Social/Sustainablehumanresourcemanagement.aspx PTT Performance Summary https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilityreport.aspx				11.11.6	1.2, 1.4, 3.1, 3.2, 3.3, 3.4, 3.7, 3.8, 4.3, 5.1, 5.4, 5.5, 8.5, 10.3	Principle 6	People: Dignity and equality - Diversity and inclusion (%)	
Non-discrimination										
GRI 3: Material Topics 2021	3-3 Management of material topics	56-1 One Report (Page 152-155)								
GRI 406: Non-discrimination 2016	406-1 Incidents of discrimination and corrective actions taken	https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Fairpractice.aspx				11.11.7	5.1, 8.8		People: Dignity and equality - Discrimination and Harassment	
Freedom of association and collective bargaining										
GRI 3: Material Topics 2021	3-3 Management of material topics	56-1 One Report (Page 152-155)								
GRI 407: Freedom of Association and Collective Bargaining 2016	407-1 Operations and suppliers in which the right to freedom of association and collective bargaining may be at risk	https://www.pttplc.com/en/Sustainability/Social/Humanright.aspx				11.13.2	8.8		People: Dignity and equality - Freedom of Association and Collective Bargaining at Risk (%)	

GRI STANDARD/ OTHER SOURCE	DISCLOSURE	LOCATION	OMISSION			GRI SECTOR STANDARD REF. NO.	SDG Targets	UNGC Principles	WEF	SASB
			REQUIREMENT(S) OMITTED	REASON	EXPLANATION					
Child labor										
GRI 3: Material Topics 2021	3-3 Management of material topics	56-1 One Report (Page 152-155)								
GRI 408: Child Labor 2016	408-1 Operations and suppliers at significant risk for incidents of child labor	https://www.ptplc.com/en/Sustainability/Social/ Humanright.aspx					5.2, 8.7, 16.2		People: Dignity and equality - Risk for incidents of child, forced or compulsory labour, People: Dignity and equality - Human rights review, grievance impact and modern slavery (#, %)	
Forced or compulsory labor										
GRI 3: Material Topics 2021	3-3 Management of material topics	56-1 One Report (Page 152-155)								
GRI 409: Forced or Compulsory Labor 2016	409-1 Operations and suppliers at significant risk for incidents of forced or compulsory labor	https://www.ptplc.com/en/Sustainability/Social/ Humanright.aspx				11.12.2	5.2, 8.7		People: Dignity and equality - Risk for incidents of child, forced or compulsory labour, People: Dignity and equality - Human rights review, grievance impact and modern slavery (#, %)	
Security practices										
GRI 3: Material Topics 2021	3-3 Management of material topics	56-1 One Report (Page 152-155)								
GRI 410: Security Practices 2016	410-1 Security personnel trained in human rights policies or procedures	https://www.ptplc.com/en/Sustainability/Social/ Humanright.aspx				11.18.2	16.1			
Rights of indigenous peoples										
GRI 3: Material Topics 2021	3-3 Management of material topics	56-1 One Report (Page 152-155)								
GRI 411: Rights of Indigenous Peoples 2016	411-1 Incidents of violations involving rights of indigenous peoples	https://www.ptplc.com/en/Sustainability/Social/ Humanright.aspx				11.17.2	2.3			EM-EP-210a.3
	Additional Sector Disclosures: List the locations of operations where indigenous peoples are present or affected by activities of the organization			Not applicable		11.17.3				EM-EP-210a.2

GRI STANDARD/ OTHER SOURCE	DISCLOSURE	LOCATION	OMISSION			GRI SECTOR STANDARD REF. NO.	SDG Targets	UNGC Principles	WEF	SASB
			REQUIREMENT(S) OMITTED	REASON	EXPLANATION					
	Additional Sector Disclosures: Report if the organization has been involved in a process of seeking free, prior and informed consent (FPIC) from indigenous peoples for any of the organization's activities			Not applicable		11.17.4				
Local communities										
GRI 3: Material Topics 2021	3-3 Management of material topics	56-1 One Report (Page 152-155)								
GRI 413: Local Communities 2016	413-1 Operations with local community engagement, impact assessments, and development programs	56-1 One Report (Page 173-183) https://www.pttplc.com/en/Sustainability/Economics/Projectmanagement.aspx				11.15.2				EM-EP-210b.1
	413-2 Operations with significant actual and potential negative impacts on local communities	https://www.pttplc.com/en/Sustainability/Social/Humanright.aspx https://www.pttplc.com/en/Sustainability/Economics/Projectmanagement.aspx				11.15.3	1.4, 2.3			
	Additional Sector Disclosures: Report the number and type of grievances from local communities identified	https://www.pttplc.com/en/Sustainability/Economics/Projectmanagement.aspx				11.15.4				
Supplier social assessment										
GRI 3: Material Topics 2021	3-3 Management of material topics	56-1 One Report (Page 152-155)								
GRI 414: Supplier Social Assessment 2016	414-1 New suppliers that were screened using social criteria	https://www.pttplc.com/en/Sustainability/Economics/Supplychainmanagement.aspx				11.10.8	5.2, 8.8, 16.1			
	414-2 Negative social impacts in the supply chain and actions taken	https://www.pttplc.com/en/Sustainability/Economics/Supplychainmanagement.aspx				11.10.9	5.2, 8.8, 16.1			
Public policy										
GRI 3: Material Topics 2021	3-3 Management of material topics	56-1 One Report (Page 152-155)								
GRI 415: Public Policy 2016	415-1 Political contributions	https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Network.aspx				11.22.2	16.5		Governance: Ethical Behaviour - Alignment of strategy and policies to lobbying	
Customer health and safety										
GRI 3: Material Topics 2021	3-3 Management of material topics	56-1 One Report (Page 152-155)								

GRI STANDARD/ OTHER SOURCE	DISCLOSURE	LOCATION	OMISSION			GRI SECTOR STANDARD REF. NO.	SDG Targets	UNGC Principles	WEF	SASB
			REQUIREMENT(S) OMITTED	REASON	EXPLANATION					
GRI 416: Customer Health and Safety 2016	416-1 Assessment of the health and safety impacts of product and service categories	https://www.pttplc.com/en/Sustainability/Economics/Innovationandproductresponsibility.aspx				11.3.3	16.3			
	416-2 Incidents of non-compliance concerning the health and safety impacts of products and services	https://www.pttplc.com/en/Sustainability/Economics/Innovationandproductresponsibility.aspx								
Marketing and labeling										
GRI 3: Material Topics 2021	3-3 Management of material topics	56-1 One Report (Page 152-155)				Not applicable				
GRI 417: Marketing and Labeling 2016	417-1 Requirements for product and service information and labeling			Not applicable	Not required to disclose by GRI 11: Oil and Gas sector 2021	Not applicable	12.8			
	417-2 Incidents of non-compliance concerning product and service information and labeling	https://www.pttplc.com/en/Sustainability/Economics/Innovationandproductresponsibility.aspx					16.3			
	417-3 Incidents of non-compliance concerning marketing communications	https://www.pttplc.com/en/Sustainability/Economics/Innovationandproductresponsibility.aspx		Not applicable	Not required to disclose by GRI 11: Oil and Gas sector 2021	Not applicable	16.3			
Customer privacy										
GRI 3: Material Topics 2021	3-3 Management of material topics	56-1 One Report (Page 152-155)								
GRI 418: Customer Privacy 2016	418-1 Substantiated complaints concerning breaches of customer privacy and losses of customer data	https://www.pttplc.com/en/Sustainability/Economics/Innovationandproductresponsibility.aspx https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Fairpractice.aspx		Not applicable	Not required to disclose by GRI 11: Oil and Gas sector 2021	Not applicable	16.3, 16.10			

Integrated Reporting <IR>

Section	Description	Location
The capitals		
Financial	The pool of funds that is available to an organization for use in the product of goods or the provision of services; and obtained through financing, such as debt, equity or grants, or generated through operations or investments.	56-1 One Report (Page 156-157)
Manufactured	Manufactured physical objects that are available to an organization for use in the production of goods or the provision of services (e.g. buildings, equipment, and infrastructure).	56-1 One Report (Page 156-157)
Intellectual	Organizational, knowledge-based intangibles including intellectual property (e.g. patents, copyrights, software, rights and licenses) and organizational capital (e.g. tacit knowledge, systems, procedures and protocols).	56-1 One Report (Page 156-157, 188) https://www.pttplc.com/en/Sustainability/Economics/Innovationandproductresponsibility.aspx
Human	People's competencies, capabilities and experience, and their motivations to innovate.	56-1 One Report (Page 156-157, 167-173) https://www.pttplc.com/en/Sustainability/Social/Sustainablehumanresourcemanagement.aspx
Social and relationship	The institutions and relationships within and between communities, groups of stakeholders and other networks, and the ability to share information to enhance individual and collective well-being (e.g. shared norms, common values and behaviors; key stakeholder relationships; intangibles associated with the brand and reputation; social license to operate)."	56-1 One Report (Page 134-135, 143-148, 156-157, 173-183) https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Stakeholderengagement.aspx https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Riskandcrisismanagement.aspx https://www.pttplc.com/en/Sustainability/Economics/Innovationandproductresponsibility.aspx https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Fairpractice.aspx https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Network.aspx https://www.pttplc.com/en/Sustainability/Economics/Projectmanagement.aspx https://www.pttplc.com/en/Sustainability/Social/Corporatecitizenship.aspx https://www.pttplc.com/en/Sustainability/Social/Humanright.aspx
Natural capital	All renewable and non-renewable environmental resources and processes that provide goods or services that support the past, current or future prosperity of an organization (e.g. air, water, land, minerals and forests, biodiversity and eco-system health).	56-1 One Report (Page 156-157, 158-166) https://www.pttplc.com/en/Sustainability/Environment/Climatechangemanagement.aspx https://www.pttplc.com/en/Sustainability/Environment/Environmentmanagement.aspx https://www.pttplc.com/en/Sustainability/Environment/Air.aspx https://www.pttplc.com/en/Sustainability/Environment/Water.aspx https://www.pttplc.com/en/Sustainability/Environment/Spill.aspx https://www.pttplc.com/en/Sustainability/Environment/Biodiversity.aspx https://www.pttplc.com/en/Sustainability/Environment/Waste.aspx
Guiding principle		
Strategic focus and future orientation	Explanation of the organization's strategy and ability to create value in the short, medium and long term and to its use of and effects on the capitals.	56-1 One Report. (Page 156-157) https://www.pttplc.com/en/About/About-Ptt/Vision-Mission-Values.aspx https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilitystrategy.aspx https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Riskandcrisismanagement.aspx
Connectivity of information	A holistic picture of the combination, interrelatedness and dependencies between the factors that affect the organization's ability to create value over time.	56-1 One Report. (Page 151, 156-157) https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Riskandcrisismanagement.aspx
Stakeholder relationships	An insight into the nature and quality of the organization's relationships with its key stakeholders, including how and to what extent the organization understands, takes into account and responds to their legitimate needs and interests.	56-1 One Report. (Page 145-148) https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Stakeholderengagement.aspx
Materiality	Explanation about matters that substantively affect the organization's ability to create value over the short, medium and long term.	56 One Report (Page 149-155) https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilitystrategy.aspx

Section	Description	Location
Conciseness	The conciseness of the integrated report. An integrated report should include sufficient context to understand the organization's strategy, governance, performance and prospects without being burdened with less relevant information.	56 One Report (Page 138-139, 156-157) https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilitystrategy.aspx https://www.pttplc.com/en/About/About-Ptt/Vision-Mission-Values.aspx https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Corporategovernance.aspx
Reliability and completeness	The inclusion of all material matters, both positive and negative, in a balanced way and without material error.	56-1 One Report (Page 150-155) https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilitystrategy.aspx
Consistency and comparability	Explanation that the report is consistent over time and enable the comparison with other organizations to the extent it is material to the organization's own ability to create value over time.	56-1 One Report (Page 138-139) https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilitystrategy.aspx PTT Performance Summary https://www.pttplc.com/en/Sustainability/SustainabilityGovernance/Sustainabilityreport.aspx
Content Element		
Organizational overview and external environment	The organization's culture, ethics and values; ownership and operating structure; principal activities and markets; competitive landscape and market positioning, position within the value chain etc. External environment are aspects of the legal, commercial, social, environmental and political context that affect the organization's ability to create value in the short, medium or long term.	56-1 One Report (Page 4-5, 65-102, 111-112, 152-155, 156-157) https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilitystrategy.aspx https://www.pttplc.com/en/About/About-Ptt/Vision-Mission-Values.aspx
Governance	Explanations of how the governance structure support the organization's ability to create value in the short, medium, and long term (the organization's leadership structure; specific processes used to make strategic decisions and monitor the culture of the organization; the organization's culture, ethics, and values and their affects on capitals etc.)	56-1 One Report Page 142 https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Corporategovernance.aspx https://www.pttplc.com/en/About/Our-Organization/Board-Of-Director.aspx https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilitystrategy.aspx https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Fairpractice.aspx
Business model	Explanation of organization business model, which can be defined as the system of transforming inputs, through its business activities, into outputs and outcomes that aims to fulfil the organization's strategic purposes and create value over the short, medium and long term.	56-1 One Report (Page 065-089, 112-113, 137, 138-139, 156-157, 184-185) https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilitystrategy.aspx
Risk and Opportunity	The key risks and opportunities that are specific to the organization, including those that relate to the organization's effects on, and the continued availability, quality and affordability of relevant capitals in the short, medium and long term.	56-1 One Report (Page 123-133, 149-151) https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Riskandcrisismanagement.aspx https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilitystrategy.aspx
Strategy and resource allocation	Explanation of the organization's strategic direction and its implementation (short, medium and long term strategic objectives; resource allocation plans to implement the strategy; targets and achievements; the organization's competitive advantage and enablers to create values for stakeholders etc.).	56-1 One Report (Page 138-139, 184-187) https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilitystrategy.aspx https://www.pttplc.com/en/About/About-Ptt/Vision-Mission-Values.aspx
Performance	Explanations of the organization's performances in achieving strategic objectives, and the outcomes in terms of effects on the capitals.	56-1 One Report (Page 134-191) https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilitystrategy.aspx PTT Performance Summary https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilityreport.aspx
Outlook	Explanation of challenges and uncertainties the organization likely to encounter in pursuing its strategy, and the potential implications for its business model and future performance	56-1 One Report (Page 122-133, 134-191) https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Riskandcrisismanagement.aspx https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilitystrategy.aspx https://www.pttplc.com/en/Sustainability/Economics/Innovationandproductresponsibility.aspx https://www.pttplc.com/en/Sustainability/Economics/Projectmanagement.aspx https://www.pttplc.com/en/Sustainability/Social/Corporatecitizenship.aspx https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Fairpractice.aspx
Basis for preparation and presentation	The organization's process of determining material issues, reporting boundary, and framework and method used to quantify or evaluate material matters.	56-1 One Report (Page 149-155) https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilitystrategy.aspx https://www.pttplc.com/en/Sustainability/SustainabilityGovernance/Sustainabilityreport.aspx

The Task Force on Climate-related Financial Disclosures (TCFD)

TCFD recommendation	Location
Governance : Disclose the organization's governance around climate related risks and opportunities.	
a) Describe the board's oversight of climate-related risks and opportunities.	56-1 One Report 2022 (Page 159) https://www.pttplc.com/en/Sustainability/Environment/Climatechangemanagement.aspx
b) Describe management's role in assessing and managing climate-related risks and opportunities.	56-1 One Report 2022 (Page 160) https://www.pttplc.com/en/Sustainability/Environment/Climatechangemanagement.aspx
Strategy : Disclose the actual and potential impacts of climate-related risks and opportunities on the organization's businesses, strategy, and financial planning where such information is material.	
a) Describe the climate-related risks and opportunities the organization has identified over the short, medium, and long term.	56-1 One Report 2022 (Page 125-126) https://www.pttplc.com/en/Sustainability/Environment/Climatechangemanagement.aspx
b) Describe the impact of climate-related risks and opportunities on the organization's businesses, strategy, and financial planning.	56-1 One Report 2022 (Page 125-126, 158-166) https://www.pttplc.com/en/Sustainability/Environment/Climatechangemanagement.aspx
c) Describe the resilience of the organization's strategy, taking into consideration different climate-related scenarios, including a 2°C or lower scenario.	https://www.pttplc.com/en/Sustainability/Environment/Climatechangemanagement.aspx
Risk Management : Disclose how the organization identifies, assesses, and manages climate-related risks.	
a) Describe the organization's processes for identifying and assessing climate-related risks.	https://www.pttplc.com/en/Sustainability/Environment/Climatechangemanagement.aspx
b) Describe the organization's processes for managing climate-related risks.	https://www.pttplc.com/en/Sustainability/Environment/Climatechangemanagement.aspx
c) Describe how processes for identifying, assessing, and managing climate-related risks are integrated into the organization's overall risk management.	https://www.pttplc.com/en/Sustainability/Environment/Climatechangemanagement.aspx
Metrics and Targets: Disclose the metrics and targets used to assess and manage relevant climate-related risks and opportunities where such information is material.	
a) Disclose the metrics used by the organization to assess climate-related risks and opportunities in line with its strategy and risk management process.	56-1 One Report 2022 (Page 159, 165-166) https://www.pttplc.com/en/Sustainability/Environment/Climatechangemanagement.aspx PTT Performance Summary (Environmental) https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilityreport.aspx
b) Disclose Scope 1, Scope 2, and, if appropriate, Scope 3 greenhouse gas (GHG) emissions, and the related risks.	56-1 One Report 2022 (Page 159, 165-166) https://www.pttplc.com/en/Sustainability/Environment/Climatechangemanagement.aspx PTT Performance Summary (Environmental) https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilityreport.aspx
c) Describe the targets used by the organization to manage climate-related risks and opportunities and performance against targets.	56-1 One Report 2022 (Page 159, 165-166) https://www.pttplc.com/en/Sustainability/Environment/Climatechangemanagement.aspx

CHRB content index

Themes and indicators		Location
A.	Policy commitment	
A.1	Policy commitment	
A.1.1	Commitment to respect human rights	56-1 One Report. (Page 134) https://www.pttplc.com/en/Sustainability/Social/Humanright.aspx https://www.pttplc.com/uploads/Sustainability/2021/02.EN/13.%20Human%20Right%20Management/20210322_PTT%20Human%20Rights%20Statement_EN_Final_signed.pdf
A.1.2	Commitment to respect the human rights of worker	
A.1.2.a	Commitment to respect the human rights of workers: ILO Declaration on Fundamental Principles and Rights at Work	56-1 One Report. (Page 134) https://www.pttplc.com/en/Sustainability/Social/Humanright.aspx https://www.pttplc.com/uploads/Sustainability/2021/02.EN/13.%20Human%20Right%20Management/20210322_PTT%20Human%20Rights%20Statement_EN_Final_signed.pdf
A.1.2.b	Commitment to respect the human rights of workers: Health and safety and working hours	56-1 One Report. (Page 134) https://www.pttplc.com/en/Sustainability/Social/Humanright.aspx https://www.pttplc.com/uploads/Sustainability/2021/02.EN/13.%20Human%20Right%20Management/20210322_PTT%20Human%20Rights%20Statement_EN_Final_signed.pdf
A.1.3	Commitment to respect human rights particularly relevant to the sector	
A.1.3.a	Commitment to respect human rights particularly relevant to the sector: Land, natural resources and indigenous peoples' rights	56-1 One Report. (Page 134) https://www.pttplc.com/en/Sustainability/Social/Humanright.aspx https://www.pttplc.com/uploads/Sustainability/2021/02.EN/13.%20Human%20Right%20Management/20210322_PTT%20Human%20Rights%20Statement_EN_Final_signed.pdf
A.1.3.b	Commitment to respect human rights particularly relevant to the sector: Security	56-1 One Report. (Page 134) https://www.pttplc.com/en/Sustainability/Social/Humanright.aspx https://www.pttplc.com/uploads/Sustainability/2021/02.EN/13.%20Human%20Right%20Management/20210322_PTT%20Human%20Rights%20Statement_EN_Final_signed.pdf
A.1.4	Commitment to remedy	56-1 One Report. (Page 134) https://www.pttplc.com/en/Sustainability/Social/Humanright.aspx https://www.pttplc.com/uploads/Sustainability/2021/02.EN/13.%20Human%20Right%20Management/20210322_PTT%20Human%20Rights%20Statement_EN_Final_signed.pdf
A.1.5	Commitment to respect the rights of human rights defenders	https://www.pttplc.com/en/Sustainability/Social/Humanright.aspx
A.2	Board Level accountability	
A.2.1	Commitment from the top	https://www.pttplc.com/en/Sustainability/Social/Humanright.aspx
A.2.2	Board responsibility	https://www.pttplc.com/en/Sustainability/Social/Humanright.aspx
A.2.3	Incentives and performance management	https://www.pttplc.com/en/Sustainability/Social/Humanright.aspx
A.2.4	Business model strategy and risks	https://www.pttplc.com/en/Sustainability/Social/Humanright.aspx

Themes and indicators		Location
B	Embedding Respect and Human Rights Due Diligence	
B.1	Embedding Respect for human rights in company culture and management system	
B.1.1	Responsibility and resources for day-to-day human rights functions	https://www.pttplc.com/en/Sustainability/Social/Humanright.aspx
B.1.2	Incentives and performance management	https://www.pttplc.com/en/Sustainability/Social/Humanright.aspx
B.1.3	Integration with enterprise risk management	https://www.pttplc.com/en/Sustainability/Social/Humanright.aspx
B.1.4	Communication/dissemination of policy commitment (s)	
B.1.4.a	Workers and external stakeholders	https://www.pttplc.com/en/Sustainability/Social/Humanright.aspx
B.1.4.b	Business relationships	https://www.pttplc.com/en/Sustainability/Social/Humanright.aspx https://www.pttplc.com/uploads/Sustainability/2021/02.EN/13.%20Human%20Right%20Management/20210322_PTT%20Human%20Rights%20Statement_EN_Final_signed.pdf
B. 1.5	Training on human rights	https://www.pttplc.com/en/Sustainability/Social/Humanright.aspx https://www.pttplc.com/en/Sustainability/Economics/Supplychainmanagement.aspx
B.1.6	Monitoring and corrective actions	https://www.pttplc.com/en/Sustainability/Social/Humanright.aspx https://www.pttplc.com/en/Sustainability/Economics/Supplychainmanagement.aspx
B.1.7	Engaging and terminating business relationships	https://www.pttplc.com/en/Sustainability/Social/Humanright.aspx https://www.pttplc.com/en/Sustainability/Economics/Supplychainmanagement.aspx
B.1.8	Approach to engaging with affected stakeholders	https://www.pttplc.com/en/Sustainability/Social/Humanright.aspx https://www.pttplc.com/en/Sustainability/Economics/Projectmanagement.aspx https://www.pttplc.com/en/Sustainability/Social/Sustainablehumanresourcemanagement.aspx
B.2	Human Rights Due Diligence	
B.2.1	Identifying human rights risks and impacts	https://www.pttplc.com/en/Sustainability/Social/Humanright.aspx
B.2.2	Assessing human rights risks and impacts	https://www.pttplc.com/en/Sustainability/Social/Humanright.aspx
B.2.3	Integrating and acting on human rights risks and impact assessments	https://www.pttplc.com/en/Sustainability/Social/Humanright.aspx
B.2.4	Tracking the effectiveness of actions to respond to human rights risks and impacts	https://www.pttplc.com/en/Sustainability/Social/Humanright.aspx https://www.pttplc.com/en/Sustainability/Economics/Projectmanagement.aspx
B.2.5	Communicating on human rights impacts	https://www.pttplc.com/en/Sustainability/Social/Humanright.aspx
C.	Remedies and grievance mechanism	
C.1	Grievance mechanism (s) for workers	https://www.pttplc.com/en/Sustainability/Social/Humanright.aspx https://www.pttplc.com/en/Sustainability/Social/Sustainablehumanresourcemanagement.aspx
C.2	Grievance mechanism (s) for external individuals and communities	https://www.pttplc.com/en/Sustainability/Social/Humanright.aspx https://www.pttplc.com/en/Sustainability/Economics/Projectmanagement.aspx
C.3	Users are involved in the design and performance of the mechanism (s)	https://www.pttplc.com/en/Sustainability/Economics/Projectmanagement.aspx https://www.pttplc.com/en/Sustainability/Social/Sustainablehumanresourcemanagement.aspx
C.4	Procedures related to the grievance mechanism(s) are equitable, publicly available and explained	https://www.pttplc.com/en/Sustainability/Social/Humanright.aspx https://www.pttplc.com/en/Sustainability/Economics/Projectmanagement.aspx

Themes and indicators		Location
C.5	Prohibition of retaliation for raising complaints or concerns	https://www.pttplc.com/en/Sustainability/Social/Humanright.aspx
C.6	Company involvement with state-based judicial and non judicial grievance mechanisms	https://www.pttplc.com/uploads/Sustainability/2021/02.EN/13.%20Human%20Right%20Management/20210322_PTT%20Human%20Rights%20Statement_EN_Final_signed.pdf
C.7	Remedying adverse impacts	https://www.pttplc.com/en/Sustainability/Social/Humanright.aspx https://www.pttplc.com/en/Sustainability/Economics/Projectmanagement.aspx
C.8	Communication on the effectiveness of grievance mechanism (s) and incorporating lessons learned	https://www.pttplc.com/en/Sustainability/Social/Humanright.aspx https://www.pttplc.com/en/Sustainability/Economics/Projectmanagement.aspx
D.	Performance: Company human rights practices	
D.3.1	Living wage (in own extractive operations, which includes JVs)	https://www.pttplc.com/en/Sustainability/Social/Sustainablehumanresourcemanagement.aspx
D.3.2	Transparency and accountability (in own extractive operations, which includes JVs)	https://www.pttplc.com/en/Sustainability/Economics/Taxstrategy.aspx
D.3.3	Freedom of association and collective bargaining (in own extractive operations, which includes JVs)	https://www.pttplc.com/en/Sustainability/Social/Sustainablehumanresourcemanagement.aspx https://www.pttplc.com/uploads/Sustainability/2022/02.EN/09.Supply%20Chain%20Management/1.6.1_Supportive_Doc_S-%E0%B8%88%E0%B8%81.%E0%B8%88%E0%B8%9A%E0%B8%8D.-99-0002_PTT%20Suppliers%20Sustainable%20Code%20of%20Condu_1.pdf
D.3.4	Health and safety: Fatalities, lost days, injury, occupational disease rates (in own extractive operations, which includes JVs)	56-1 One Report (Page 138-139, 169-170, 172) https://www.pttplc.com/en/Sustainability/Social/Securitysafetyandoccupationalhealth.aspx PTT Performance Summary https://www.pttplc.com/en/Sustainability/Sustainabilitygovernance/Sustainabilityreport.aspx https://www.pttplc.com/uploads/Sustainability/2022/02.EN/09.Supply%20Chain%20Management/1.6.1_Supportive_Doc_S-%E0%B8%88%E0%B8%81.%E0%B8%88%E0%B8%9A%E0%B8%8D.-99-0002_PTT%20Suppliers%20Sustainable%20Code%20of%20Condu_1.pdf
D.3.5	Indigenous peoples' rights and free prior and informed consent (FPIC) (in own extractive operations, which includes JVs)	https://www.pttplc.com/en/Sustainability/Social/Humanright.aspx https://www.pttplc.com/uploads/Sustainability/2021/02.EN/13.%20Human%20Right%20Management/20210322_PTT%20Human%20Rights%20Statement_EN_Final_signed.pdf https://www.pttplc.com/en/Sustainability/Economics/Projectmanagement.aspx
D.3.6	Land rights: Land acquisition (in own extractive operations, which includes JVs)	https://www.pttplc.com/en/Sustainability/Economics/Projectmanagement.aspx
D.3.7	Security (in own extractive operations, which includes JVs)	https://www.pttplc.com/en/Sustainability/Social/Humanright.aspx https://www.pttplc.com/uploads/Sustainability/2021/02.EN/13.%20Human%20Right%20Management/20210322_PTT%20Human%20Rights%20Statement_EN_Final_signed.pdf https://www.pttplc.com/en/Sustainability/Social/Securitysafetyandoccupationalhealth.aspx
D.3.8	Water and sanitation (in own extractive operations, which includes JVs)	https://www.pttplc.com/en/Sustainability/Environment/Environmentmanagement.aspx
D.3.9	Women's rights (in own extractive operations, which includes JVs)	https://www.pttplc.com/en/Sustainability/Social/Sustainablehumanresourcemanagement.aspx
E.	Performance: Response to serious allegations	
E.1	The company has responded publicly to the allegation	https://www.pttplc.com/en/Sustainability/Social/Humanright.aspx
E.2	The company has investigated and taken appropriate action	https://www.pttplc.com/en/Sustainability/Social/Humanright.aspx
E.3	The company has engaged with affected stakeholders to provide for or cooperate in remedy (ies)	https://www.pttplc.com/en/Sustainability/Social/Humanright.aspx

