

# SASB Reporting

Oil & Gas Standards

**2021**

# Galp – SASB Reporting 2021

## Notes:

- IR 2021: Integrated Report 2021, available [here](#).
- GRI 2021: GRI Standards Content Index 2021, available [here](#).

SASB Code <sup>1</sup>	Metrics	2021	Reference	Additional details
<b>Greenhouse gas emissions</b>				
EM-EP-110a.1 EM-MD-110a.1 EM-RM-110a.1	Gross Global Scope 1 emissions (mtCO <sub>2</sub> e)	3.2 <sup>i</sup>	IR 2021: 5.3 Approach to climate change	
EM-EP-110a.1 EM-MD-110a.1	Scope 1, percentage methane (%)	0.38 <sup>i</sup>	IR 2021: 5.5 Reduce the ecological footprint	
EM-EP-110a.1 EM-MD-110a.1 EM-RM-110a.1	Scope 1, percentage covered under emissions-limiting regulations (%)	84 <sup>i</sup>	-	
	Amount of gross global Scope 1 emissions from flared hydrocarbons (ktCO <sub>2</sub> e)	181.82 <sup>i</sup>	-	
	Amount of gross global Scope 1 emissions from other combustion (ktCO <sub>2</sub> e)	2,135.36 <sup>i</sup>	-	
EM-EP-110a.2	Amount of gross global Scope 1 emissions from process emissions (ktCO <sub>2</sub> e)	819.23 <sup>i</sup>	-	
	Amount of gross global Scope 1 emissions from other vented emissions (ktCO <sub>2</sub> e)	0 <sup>i</sup>	-	
	Amount of gross global Scope 1 emissions from fugitive emissions (ktCO <sub>2</sub> e)	0.18 <sup>i</sup>	-	
EM-EP-110a.3	Discussion of long-term and short-term strategy or plan to manage Scope 1 emissions, emissions reduction targets, and an analysis of performance against those targets	-	IR 2021: 5.3 Approach to climate change	
<b>Air quality</b>				
	Air emissions of the following pollutants: NO <sub>x</sub> (excluding NO <sub>2</sub> ) (t)	1,349 <sup>i</sup>	IR 2021: 5.5 Reducing the ecological footprint	
EM-EP-120a.1	Air emissions of the following pollutants: SO <sub>x</sub> (t)	922 <sup>i</sup>	IR 2021: 5.5 Reducing the ecological footprint	
EM-MD-120a.1 EM-RM-120a.1	Air emissions of the following pollutants: volatile organic compounds (VOCs) (t)	-	<a href="#">Galp's Website – Sustainability – Interactive environmental indicators</a>	
	Air emissions of the following pollutants: particulate matter (t)	183 <sup>i</sup>	IR 2021: 5.5 Reducing the ecological footprint	
EM-RM-120a.12	Number of refineries in or near areas of dense population	1	-	Matosinhos refinery. Galp decided to focus its refining activities and future developments in Sines complex and discontinue refining operations in Matosinhos from 2021 onwards.
<b>Water management</b>				
	Total fresh water withdrawn (thousand m <sup>3</sup> )	9,435 <sup>i</sup>	IR 2021: 5.5 Reducing the ecological footprint GRI 2021: Standard 303-5	
EM-EP-140a.1 EM-RM-140a.1	Percentage of fresh water withdrawn in regions with High or Extremely High Baseline Water Stress (%)	0.06 <sup>i</sup>	IR 2021: 5.5 Reducing the ecological footprint GRI 2021: Standard 303-5	
	Total fresh water consumed (thousand m <sup>3</sup> )	3,613 <sup>i</sup>	GRI 2021: Standard 303-5	

<sup>1</sup> The table contains a SASB code column to identify common reporting elements between the related SASB Standards. As reflected in the table, Galp currently discloses data on several issues recommended in the SASB Oil & Gas Exploration & Production, Midstream and Refining and Marketing Standards. The Exploration and Production indicators refers to blocks operated by Galp.

SASB Code <sup>1</sup>	Metrics	2021	Reference	Additional details
	Percentage of fresh water consumed in regions with High or Extremely High Baseline Water Stress (%)	0.166 <sup>i</sup>	GRI 2021: Standard 303-5	
EM-EP-140a.2	Volume of produced water and flowback generated (thousand m <sup>3</sup> )			The water produced by the "Upstream" segment occurs only in blocks not operated by Galp
	Percentage discharged (%)			
	Percentage injected (%)	n.a.	-	
	Percentage recycled (%)			
	Hydrocarbon content in discharged water (t)			
EM-EP.140a.3	Percentage of hydraulically fractured wells for which there is public disclosure of all fracturing fluid chemicals used (%)	n.a.	-	Not applicable to Galp
EM-EP-140a.4	Percentage of hydraulic fracturing sites where ground or surface water quality deteriorated compared to a baseline (%)	n.a.	-	Not applicable to Galp
EM-RM-140a.2	Number of incidents of non-compliance associated with water quality permits, standards, and regulations	0 <sup>i</sup>	GRI 2021: Standard 2-27	Galp did not submit any files, enforcement orders, and/or penalties for water-related regulatory violations
<b>Hazardous Materials Management</b>				
EM-RM-150a.1	Amount of hazardous waste generated (t)	16,268 <sup>i</sup>	GRI 2021: Standard 306-3	
	Percentage recycled (%)	55.4% <sup>i</sup>	GRI 2021: Standard 306-3	
EM-RM-150a.2	Number of underground storage tanks (USTs)	6,179	-	Galp has 6179 UST in gas stations located in Portugal and Spain. Galp also has the SIGÁS Propane Cave which is an underground storage facility with an installed capacity of 80 x 103m <sup>3</sup> , proceeding to the storage and movement of LPG through pipelines.
	Number of UST releases requiring cleanup	0	-	In 2021, no UST releases requiring cleanup were reported
	Percentage in states with UST financial assurance funds (%)	n.a.	-	In 2021, no UST incidents were reported
<b>Biodiversity and Ecological Impacts</b>				
EM-EP-160a.1 EM-MD-160a.1	Description of environmental management policies and practices for active sites	-	IR 2021: 5.5 Reducing the ecological footprint	
	Number of hydrocarbon spills	11 <sup>i</sup>	IR 2021: 5.5 Reducing the ecological footprint	11 primary containment losses that impacted the environment
	Volume of hydrocarbon spills (bbls)	294.9 <sup>i</sup>	IR 2021: 5.5 Reducing the ecological footprint	43.707 m <sup>3</sup> of primary containment losses that impacted the environment
EM-EP-160a.2	Volume in Arctic (bbls)	0		
EM-MD-160a.4	Volume impacting shorelines with ESI rankings 8-10 (bbls)	0		
	Volume in Unusually Sensitive Areas (USAs) (bbls)	0		
	Volume recovered (bbls)	0.629 <sup>i</sup>		Total volume recovered of 100 litres
EM-EP-160a.3	Percentage of proved reserves in or near sites with protected conservation status or endangered species habitat (%)	0%	<a href="#">IBAT 2021 – Identification of Protected and Significant Biodiversity Areas</a>	There are no E&P blocks in situ or within a 5km radius from an IUCN protected area.
	Percentage of probable reserves in or near sites with protected conservation status or endangered species habitat (%)	n.a.	-	Galp does not disclose this information for probable reserves

SASB Code <sup>1</sup>	Metrics	2021	Reference	Additional details
EM-MD-160a.2	Percentage of land owned, leased, and/or operated within areas of protected conservation status or endangered species habitat (%)	25.9%	<a href="#">IBAT 2021 – Identification of Protected and Significant Biodiversity Areas</a>	Only 4.7% of Galp's sites are within a sensitive area. The 25.9% includes all sites near areas of importance for biodiversity.
EM-MD-160a.3	Terrestrial acreage disturbed (ac)	0		
	Percentage of impacted area restored (%)	0		
<b>Security, Human Rights &amp; Rights of Indigenous Peoples</b>				
EM-EP-210a.1	Percentage of proved reserves in or near areas of conflict (%)	0	-	
	Percentage of probable reserves in or near areas of conflict (%)	0	-	
EM-EP-210a.2	Percentage of proved reserves in or near indigenous land (%)	0	-	
	Percentage of probable reserves in or near indigenous land (%)	0	-	
EM-EP-210a.3	Discussion of engagement processes and due diligence practices with respect to human rights, indigenous rights, and operation in areas of conflict	-	IR 2021: 5.6 Developing a conscious business	
<b>Community Relations</b>				
EM-EP-210b.1	Discussion of process to manage risks and opportunities associated with community rights and interests	-	IR 2021: 5.4 People at the centre <a href="#">HSSE Specific Requirements in Projects</a>	
EM-EP-210b.2	Number and duration of non-technical delays	0		
<b>Workforce Health &amp; Safety</b>				
EM-EP-320a.1 EM-RM-320a.1	Total recordable incident rate (TRIR)	1.7 <sup>i</sup>	IR 2021: 5.6 Developing a conscious business	Galp reports Total recordable incident count / million hours worked
	Fatality rate	0 <sup>i</sup>	IR 2021: 5.6 Developing a conscious business	
	Near miss frequency rate (NMFR)	11	<a href="#">Galp's Website - Incident Management</a>	In 2021, 242 near misses were reported. Galp reports near misses / million hours worked
	Near miss frequency rate (NMFR) for full-time employees	n.a.	-	
	Near miss frequency rate (NMFR) for contract employees	n.a.	-	Galp does not publicly disclose this information
	Near miss frequency rate (NMFR) short-service employees	n.a.	-	
	Average hours of health, safety, and emergency response training for full-time employees (h)	25,540 <sup>i</sup>	IR 2021: 5.6 Developing a conscious business	
	Average hours of health, safety, and emergency response training for contract employees (h)	n.a.	-	Galp does not publicly disclose this information
Average hours of health, safety, and emergency response training for short-service employees (h)	n.a.	-	Galp does not publicly disclose this information	

SASB Code <sup>1</sup>	Metrics	2021	Reference	Additional details
EM-EP-320a.2 EM-RM-320a.2	Discussion of management systems used to integrate a culture of safety	-	<ul style="list-style-type: none"> <li>• <a href="#">Health, Safety and Environmental Policy</a></li> <li>• <a href="#">HSSE Specific Requirements in Projects</a></li> <li>• IR 2021: 5.2 Transformation with responsibility, 5.6 Developing a conscious business</li> </ul>	In 2021, once again, the operational excellence of Galp's integrated management was recognised through the certification of its Integrated Management System for Environment, Quality, Safety, Energy, Social Responsibility and Business Continuity. Galp is committed to comply, in all its activities and geographies, with the applicable legislation and regulations on Safety, Health and Environment.
<b>Product Specifications &amp; Clean Fuel Blends</b>				
EM-RM-410a.1	Percentage of Renewable Volume Obligation (RVO) met through production of renewable fuels (%)	-	IR 2021: 3.4 Industrial & Energy Management (Biofuels)	In 2021, Galp complied with the Renewable Energy Directive (RED), according to national legislation updates, incorporating 11% biofuels in its energy content in Portugal, and 9.5% in Spain.
	Percentage of Renewable Volume Obligation (RVO) met through purchase of "separated" renewable identification numbers (RIN) (%)	-	IR 2021: 3.4 Industrial & Energy Management (Biofuels)	
EM-RM-410a.2	Total addressable market (€)	n.a.	-	Information not available for 2021
	Share of market for advanced biofuels and associated infrastructure (%)	n.a.	-	Information not available for 2021
<b>Reserves Valuation &amp; Capital Expenditures</b>				
EM-EP-420a.1	Sensitivity of hydrocarbon reserve levels to future price projection scenarios that account for a price on carbon emissions (MMbbls)	-	IR 2021: 2. Strategic Framework	
EM-EP-420a.2	Estimated carbon dioxide emissions embedded in proved hydrocarbon reserves (tCO <sub>2</sub> )	-	-	Galp does not publicly disclose this information
EM-EP-420a.3	Amount invested in renewable energy (m€)	142 <sup>i</sup>	IR 2021: 4.4 Capital Expenditure	
	Revenue generated by renewable energy sales (m€)	n.a.	-	Information not available for 2021
EM-EP-420a.4	Discussion of how price and demand for hydrocarbons and/or climate regulation influence the capital expenditure strategy for exploration, acquisition, and development of assets	-	IR 2021: 2. Strategic Framework	
<b>Business Ethics &amp; Transparency</b>				
EM-EP-510a.1	Percentage of proved reserves in countries that have the 20 lowest rankings in Transparency International's Corruption Perception Index (%)	n.a.	-	Galp does not have Exploration and Production activities in any country that has of the 20 lowest rankings in Transparency International's Corruption Perception Index
	Percentage of probable reserves in countries that have the 20 lowest rankings in Transparency International's Corruption Perception Index (%)	n.a.	-	
EM-EP-510a.2	Description of the management system for prevention of corruption and bribery throughout the value chain	-	<a href="#">Corruption Prevention Policy</a> IR 2021: 5.6 Developing a conscious business	Galp is committed to monitor the evolution of best practices on the prevention of corruption risk in order to achieve continuous improvement
<b>Competitive Behaviour</b>				
EM-MD-520a.1	Total amount of monetary losses as a result of legal proceedings associated with federal pipeline and storage regulations (€)	0 <sup>i</sup>	GRI 2021: Standard 2-27	Galp has 0 cases identified of Non-conformities with laws and regulations in the socioeconomic area associated with federal pipeline and storage regulations.
<b>Pricing Integrity &amp; Transparency</b>				
EM-RM-520a.1	Total amount of monetary losses as a result of legal proceedings associated with price fixing or price manipulation (€)	0 <sup>i</sup>	GRI 2021: Standard 2-27 GRI 2021: Standard 2-27 206-1	Galp has 0 cases identified of Non-conformities with laws and regulations in the socioeconomic area associated with price fixing or price manipulation.
<b>Management of the Legal &amp; Regulatory Environment</b>				

SASB Code <sup>1</sup>	Metrics	2021	Reference	Additional details
EM-EP-530a.1 EM-RM-530a.1	Discussion of corporate positions related to government regulations and/or policy proposals that address environmental and social factors affecting the industry	-	<a href="#">Galp's Website - Sustainability - Stakeholder engagement</a>	
<b>Critical Incident Risk Management</b>				
EM-EP-540a.1 EM-RM-540a.1	Process Safety Event (PSE) rates for Loss of Primary Containment (LOPC) of greater consequence (Tier 1)	0.13 <sup>i</sup>	IR 2021: 5.6 Developing a conscious business	Galp reports Total Tier 1 PSE count / million hours worked
EM-RM-540a.1	Process Safety Event (PSE) rates for Loss of Primary Containment (LOPC) lesser consequence (Tier 2)	0.49 <sup>i</sup>	IR 2021: 5.6 Developing a conscious business	Galp reports Total Tier 2 PSE count / million hours worked
EM-EP-540a.2	Description of management systems used to identify and mitigate catastrophic and tail-end risks	-	<a href="#">Prevention, detection, control and mitigation of accidents</a>	
EM-RM-540a.2	Challenges to Safety Systems indicator rate (Tier 3)	2.31 <sup>i</sup>	GRI 2021: Standard 306-3	Galp reports Total Tier 3 PSE count / million hours worked
EM-RM-540a.3	Discussion of measurement of Operating Discipline and Management System Performance through Tier 4 Indicators	-		Galp does not publicly disclose this information
<b>Operational Safety, Emergency Preparedness &amp; Response</b>				
EM-MD-540a.1	Number of reportable pipeline incidents	n.a.		Galp does not publicly disclose this information
	Percentage of significant reportable pipeline incidents (%)	n.a.		
EM-MD-540a.2	Percentage of natural gas pipelines inspected (%)	n.a.		Galp Midstream does not have natural gas pipelines.
	Percentage of hazardous liquid pipelines inspected (%)	n.a.		
EM-MD-540a.3	Number of accident releases from rail transportation	-		Galp does not publicly disclose this information
	Number of nonaccident releases (NARs) from rail transportation	-		Galp does not publicly disclose this information
EM-MD-540a.4	Discussion of management systems used to integrate a culture of safety and emergency preparedness throughout the value chain and throughout project lifecycles	-	<a href="#">Health, Safety and Environmental Policy</a> IR 2021: 5.6 Developing a conscious business <a href="#">Galp's Website: Incident Management</a>	Galp is committed to create conditions for the organization to remain continuously prepared to respond to emergencies in an effective manner.
<b>Activity Metrics</b>				
EM-EP-000.A	Production of oil (kboepd)	113.9	IR 2021: 3.2 Upstream (Production overview for 2021)	
	Production of natural gas (kboepd)	12.7	IR 2021: 3.2 Upstream (Production overview for 2021)	
	Production of synthetic oil (Mbbbl/day)	n.a.		Not applicable
	Production of synthetic gas (MMscf/day)	n.a.		Not applicable
EM-EP-000.B	Number of offshore sites	28 <sup>i</sup>	IR 2021 – 3.2 Upstream (Upstream project portfolio by the end of 2021)	
EM-EP-000.C	Number of terrestrial sites	0 <sup>i</sup>	IR 2021 – 3.2 Upstream (Upstream project portfolio by the end of 2021)	
EM-MD-000.A	Total metric ton kilometers of natural gas transported, by mode of transport	n.a.		Value not available
	Total metric ton kilometers of crude oil transported, by mode of transport	n.a.		The transportation of crude oil is made by a third-party
	Total metric ton kilometers of refined petroleum products transported, by mode of transport	n.a.		Value not available
EM-RM-000.A	Refining throughput of crude oil and other feedstocks (mboe)	76.6 <sup>i</sup>	IR 2021: 3.4 Industrial & Energy Management (2021 Highlights)	
EM-RM-000.B	Refining operating capacity (million bpd)	0.226 <sup>i</sup>	IR 2021: 1.3 Value creation model (Business segments)	

<sup>i</sup> Verified by third-party