



ESG datasheet 2022



March 2023



Introduction

This ESG datasheet aims to provide a consolidated overview of bp's non-financial performance. Metrics included in this datasheet cover our activities during the period 1 January to 31 December for the years indicated.

Selected performance data included in this datasheet is discussed further in the sustainability report 2022. The datasheet should be read in conjunction with the sustainability report and is not a substitute for it. The report is available at bp.com/sustainability.

How we report ESG data

As we transition from an International Oil Company to an Integrated Energy Company, we are reinventing our old business model. Our upstream/downstream business model was in place up to 31 December 2020 and that is how we previously reported our ESG data. We transitioned to our new business model on 1 January 2021, and this is reflected in how we have reported selected ESG data for 2022.

We report group-level data and, for 2022, we now provide breakdowns for safety and GHG, energy and environment data. Safety data (including spills) is reported by (i) group, (ii) production, (iii) refining (iv) unconventional onshore US (including bpx) and (v) other. GHG, energy and environment data is reported by (i) group, (ii) exploration, production and LNG, (iii) refining and chemicals and (iv) other (including our customers & products businesses). We think this breakdown is most relevant to aid understanding of our performance. Due to these changes in our ESG reporting, it is not possible to restate prior year data on a new segmental basis. For historical data reported against the old upstream/downstream business model, please see the ESG datasheets for prior reporting years, available at bp.com/reportingcentre.

Contents

Introduction	1
Reports and reporting frameworks	2
Metrics subject to assurance for 2022	2
Net zero	3
Greenhouse gas emissions and energy	4
Safety	6
Environment	9
Social	12
Governance	15
Key definitions	16

Reports and reporting frameworks

Copies of all of bp's key reports, and an archive, can be found in our reporting centre: bp.com/reportingcentre.

Reports

- [Annual Report and Form 20-F 2022](#)
- [Diversity, equity & inclusion report 2021](#)
- [Energy outlook 2023](#)
- [Gender and ethnicity pay gap report 2022](#)
- [Modern slavery and human trafficking statement 2021](#)
- [Net zero ambition progress update](#)
- [Payments to governments 2021](#)
- [Protected areas 2022](#)
- [Statistical review of world energy 2022](#)
- [Sustainability report 2022](#)
- [Tax report 2021](#)
- [Trade associations – 2022 climate review](#)

Reporting frameworks

- [CDP climate change questionnaire 2022](#)
- [GRI standards index](#)
- [SASB index](#)

Policies and positions

- [bp's commitment to HSSE performance](#)
- [bp's expectations of its suppliers](#)
- [bp labour rights and modern slavery principles](#)
- [Business and human rights policy](#)
- [Environmental policy](#)
- [Our biodiversity position](#)
- [Our code of conduct](#)

Metrics subject to assurance for 2022

The selected sustainability information below were subject to limited assurance by Deloitte LLP in accordance with the International Standard for Assurance Engagements ("ISAE") 3000 (Revised). Please see the sustainability report 2022 for Deloitte's independent assurance statement, at bp.com/sustainability.

An associated 'basis of reporting' document is available on bp.com/basisofreporting.

Safety indicators:

1. Recordable injury frequency (RIF) (employees and contractors)
2. Days away from work case frequency (DAFWCF) (employees and contractors)
3. Total fatalities (employees and contractors)
4. Process safety events (total of tier 1 and tier 2)

Environment indicators:

5. Scope 1 (direct) GHG emissions (operational boundary) (MtCO₂e) (aim 1)
6. Scope 1 (direct) GHG emissions from UK locations (operational boundary) (MtCO₂e) (aim 1)
7. Scope 1 (direct) GHG emissions from global locations (excluding UK and offshore) (operational boundary) (MtCO₂e) (aim 1)
8. Scope 2 (indirect) GHG emissions (operational boundary) (MtCO₂e) (aim 1)
9. Scope 2 (indirect) GHG emissions from UK and offshore locations (operational boundary) (MtCO₂e) (aim 1)
10. Scope 2 (indirect) GHG emissions from global locations (excluding UK and offshore) (operational boundary) (MtCO₂e) (aim 1)
11. Scope 1 (direct) GHG emissions (equity boundary) (MtCO₂e) (aim 1)
12. Scope 2 (indirect) GHG emissions (equity boundary) (MtCO₂e) (aim 1)
13. Total sustainable emissions reductions (SERs) (MtCO₂e) (aim 1)
14. Scope 1 (direct) carbon dioxide emissions (operational boundary) (MtCO₂) (aim 1)
15. Scope 1 (direct) methane emissions (operational boundary) (Mte) (aim 1)
16. Emissions from the carbon in our upstream oil and gas production (MtCO₂e) (aim 2)
17. Average carbon intensity of our sold energy products* (gCO₂e/MJ) (aim 3)
18. Methane intensity (%) (aim 4)
19. Energy consumption for UK and offshore locations (operational boundary) (GWh, base units of kWh)
20. Energy consumption for global locations (excluding UK and offshore) (operational boundary) (GWh, base units of kWh)

* Sold energy products include both marketed sales and physically traded energy products.

Net zero

Metric	Unit	2018	2019	2020	2021	2022
Net zero aims						
Aim 1 – Scope 1 (direct) and Scope 2 (indirect) greenhouse gas emissions ^a	MtCO ₂ e	54.2	54.4	45.5	35.6	31.9
Aim 2 – Emissions from the carbon in our upstream oil and gas production (our Scope 3 aim) ^b	MtCO ₂	–	360.9	327.6	303.6	306.7
Aim 3 – Average carbon intensity of our sold energy products ^{cd}	gCO ₂ e/MJ	–	79	77	78	77
Refined energy products carbon intensity ^{de}	gCO ₂ e/MJ	–	95	92	92	92
Gas products carbon intensity ^{df}	gCO ₂ e/MJ	–	68	67	67	67

- a Operational control data comprises 100% of emissions from activities operated by bp, going beyond the IPIECA guidelines by including emissions from certain other activities such as contracted drilling activities.
- b Estimated CO₂ emissions from the assumed combustion of upstream production of crude oil, natural gas and natural gas liquids (NGLs) based on bp's net share of production, excluding bp's share of production in Rosneft. On 27 February 2022, following the military action in Ukraine, the bp board announced that bp intends to exit its 19.75% shareholding in Rosneft Oil Company (Rosneft). It is assumed that all produced volumes undergo full stoichiometric combustion to CO₂. These emissions are broadly equivalent to the GHG Protocol, Scope 3, category 11, with the specific scope of upstream production volumes.
- c Carbon intensity metric showing GHG emissions estimated on a lifecycle basis from the use, production, and distribution of sold energy products per unit of energy (MJ) delivered. For this purpose, lifecycle covers the 'well-to-wheel' emissions of fuel products and the 'well-to-wire' emissions of power products, and excludes embodied emissions from capital goods and assets.
- d Following the changes to aim 3 announced in February 2022, we have updated our aim 3 metric from the average carbon intensity of our marketed energy products to the average carbon intensity of our sold energy products. The previously reported aim 3 figures have been recalculated in accordance with the expanded sales boundary, methodology improvements for power, and updated carbon intensity factors and physical/chemical properties, and so differ from those presented in the 2019-2021 bp Annual Report and Form 20-F, sustainability report and ESG datasheet. For more detail on how this metric is calculated see the bp basis of reporting.
- e The refined energy products carbon intensity has been updated to exclude bio-content blended in gasoline and diesel, and ethyl tertiary butyl ether (ETBE) blended in gasoline, which were presented in the refined energy products carbon intensity in the 2019-2021 bp Annual Report and Form 20-F, sustainability report and ESG datasheet, but are now presented in the bioproducts carbon intensity, and to exclude natural gas liquids (NGLs) and liquefied petroleum gas (LPG) which were presented in the refined energy products carbon intensity in the 2019-2021 bp Annual Report and Form 20-F, sustainability report and ESG datasheet but are now presented in the gas products carbon intensity. Consistent with our internal processes, the industry standard carbon intensity factors, and physical/chemical properties used in the calculation of the refined energy products carbon intensity for 2019-2022 have been updated to use the most up-to-date factors for the year of reporting, and to use a consistent source for carbon intensity and physical/chemical properties wherever possible.
- f The gas products carbon intensity has been updated to exclude biogas which was presented in the gas products carbon intensity in the 2019-2021 bp Annual Report and Form 20-F, sustainability report and ESG datasheet but is now presented in the bioproducts carbon intensity, and to include natural gas liquids (NGLs) and liquefied petroleum gas (LPG) which were presented in the refined products carbon intensity in the 2019-2021 bp Annual Report and Form 20-F, sustainability report and ESG datasheet. Consistent with our internal processes, the industry standard carbon intensity factors, and physical/chemical properties used in the calculation of the

Metric	Unit	2018	2019	2020	2021	2022
Bioproducts carbon intensity ^{dg}	gCO ₂ e/MJ	–	47	44	43	43
Power products carbon intensity ^{dh}	gCO ₂ e/MJ	–	57	59	56	52
Aggregate lifecycle emissions associated with sales of energy products ^{di}	MtCO ₂ e	–	1,638	1,410	1,418	1,334
Aggregate energy associated with sales of energy products ^{dj}	PJ		20,856	18,410	18,284	17,313
Aim 4 – Methane intensity ^{kl}	%	0.16	0.14	0.12	0.07	0.05
Aim 5 – Transition growth investment ^{mn}	\$ million	–	634	995	2,437	4,911

- g The bioproducts carbon intensity has been updated to include biogas, which was presented in the gas products carbon intensity in the 2019-2021 bp Annual Report and Form 20-F, sustainability report and ESG datasheet; and the bio-content blended in gasoline and diesel, and ethyl tertiary butyl ether (ETBE) blended in gasoline which were presented in the refined products carbon intensity in the 2019-2021 bp Annual Report and Form 20-F, sustainability report and ESG datasheet. Following our internal process, the industry standard carbon intensity factors, and physical/chemical properties used in the calculation of the bioproducts carbon intensity for 2019-2022 have been updated to use the most up-to-date factors for the year of reporting, and to use a consistent source for carbon intensity and physical/chemical properties wherever possible. More specific industry standard carbon intensity factors, and physical/chemical properties were also used to reflect the specific feedstock of the bioproducts wherever possible.
- h The power products carbon intensity has been updated to cover the lifecycle emissions on a 'well-to-wire' basis with emissions determined using industry standard factors such as lifecycle residual grid factors or lifecycle emissions factors (for solar/wind/bio-power), based upon our knowledge of the geography and environmental attributes of the power sold.
- i Aggregate lifecycle GHG emissions associated with bp's sold energy products, as determined in the calculation of the average carbon intensity of our sold energy products. For this purpose, lifecycle covers the 'well-to-wheel' emissions of fuel products and the 'well-to-wire' emissions of power products, and excludes embodied emissions from capital goods and assets.
- j Aggregate energy associated with sales of energy products, as determined in the calculation of the average carbon intensity of our sold energy products, with electricity represented as fossil equivalence of sold energy. 1 PJ (Petajoule) = 1 billion (10⁹) MJ.
- k Methane intensity refers to the amount of methane emissions from bp's operated upstream oil and gas assets as a percentage of the total gas that goes to market from those operations. Our methodology is aligned with the Oil and Gas Climate Initiative's (OGCI).
- l Methane intensity is currently calculated using our existing methodology and, while it reflects progress in reducing methane emissions, will not directly correlate with progress towards delivering the 2025 target under aim 4.
- m Our transition growth engines are bioenergy, convenience, EV charging, renewables and power, and hydrogen. We have restated our aim 5 metric to align with our transition growth investment. 2019-2021 values have been restated to align with transition growth investment.
- n In 2022, capital expenditure against aim 5 activities (transition growth investment) increased from \$2.4 billion on an equivalent basis in 2021 (\$2.2 billion based on previous aim 5 low carbon investment metric). Most of this spend related to investments in biogas, EV charging, offshore wind, power and convenience.

Greenhouse gas emissions and energy

Metric	Unit	2018	2019	2020	2021	2022
GHG – Operational control ^{op}						
Scope 1 (direct) greenhouse gas emissions ^q	MtCO ₂ e	48.8	49.2	41.7	33.2	30.4
Exploration, production and LNG	MtCO ₂ e	–	–	–	15.5	13.8
Refining and chemicals	MtCO ₂ e	–	–	–	16.9	15.9
Other	MtCO ₂ e	–	–	–	–	0.7
Scope 1 (direct) carbon dioxide emissions	MtCO ₂ e	46.4	46.8	39.8	32.0	29.7
Exploration, production and LNG	MtCO ₂ e	–	–	–	14.4	13.1
Refining and chemicals	MtCO ₂ e	–	–	–	16.9	15.9
Other	MtCO ₂ e	–	–	–	–	0.7
Scope 1 (direct) methane emissions	Mt	0.09	0.10	0.07	0.05	0.03
Exploration, production and LNG	Mt	–	–	–	0.04	0.03
Refining and chemicals	Mt	–	–	–	0.00	0.00
Other	Mt	–	–	–	–	0.00
Sustainable GHG emissions reductions (Scope 1 and 2) ^r	MtCO ₂ e	1.3	1.4	1.0	1.6	1.5
Scope 2 (indirect) emissions	MtCO ₂ e	5.4	5.2	3.8	2.4	1.5
Exploration, production and LNG	MtCO ₂ e	–	–	–	0.0	0.1
Refining and chemicals	MtCO ₂ e	–	–	–	2.2	1.2
Other	MtCO ₂ e	–	–	–	–	0.2
Greenhouse gas intensity (Scope 1 and 2)						
Exploration, production and LNG ^s	tCO ₂ e per thousand boe of production	–	–	–	15.9	14.2
Refineries ^t	tCO ₂ e per utilized equivalent distillation capacity	–	–	–	1,060	1,028
Petrochemicals ^u	tCO ₂ e per thousand tonnes of production	–	–	–	688	653
Methane intensity ^v	%	0.16	0.14	0.12	0.07	0.05
Flaring ^w	kt	1,634	1,395	831	967	654

Metric	Unit	2018	2019	2020	2021	2022
GHG – Equity share ^{ox}						
Scope 1 (direct) greenhouse gas emissions ^q	MtCO ₂ e	46.5	46.0	41.3	36.5	33.9
Exploration, production and LNG	MtCO ₂ e	–	–	–	17.7	14.6
Refining and chemicals	MtCO ₂ e	–	–	–	17.5	16.3
Other	MtCO ₂ e	–	–	–	–	3.0
Scope 1 (direct) carbon dioxide emissions	MtCO ₂ e	43.3	43.0	39.1	34.8	32.6
Exploration, production and LNG	MtCO ₂ e	–	–	–	16.0	13.4
Refining and chemicals	MtCO ₂ e	–	–	–	17.5	16.2
Other	MtCO ₂ e	–	–	–	–	2.9
Scope 1 (direct) methane emissions	Mt	0.13	0.12	0.09	0.07	0.05
Exploration, production and LNG	Mt	–	–	–	0.07	0.05
Refining and chemicals	Mt	–	–	–	0.00	0.00
Other	Mt	–	–	–	–	0.00
Scope 2 (indirect) emissions	MtCO ₂ e	5.7	5.7	4.2	2.6	1.6
Exploration, production and LNG	MtCO ₂ e	–	–	–	0.2	0.2
Refining and chemicals	MtCO ₂ e	–	–	–	2.0	1.1
Other	MtCO ₂ e	–	–	–	–	0.4
Greenhouse gas intensity (Scope 1 and 2)						
Exploration, production and LNG ^y	tCO ₂ e per thousand boe of production	–	–	–	22.4	18.4
Refineries ^z	tCO ₂ e per utilized equivalent distillation capacity	–	–	–	1,067	1,022
Petrochemicals	tCO ₂ e per thousand tonnes of production	–	–	–	688	653



Greenhouse gas emissions and energy

Metric	Unit	2018	2019	2020	2021	2022
Energy – Operational control ^{op}						
Energy consumption ^{aa}	GWh	–	–	–	128,805	121,697
Exploration, production and LNG	GWh	–	–	–	46,033	43,748
Refining and chemicals	GWh	–	–	–	79,177	74,589
Other	GWh	–	–	–	–	3,361
Energy intensity						
Exploration, production and LNG ^{bb}	GJ per thousand boe of production	–	–	–	169.8	162.1
Refineries ^{cc}	Energy intensity performance index (indexed to 2010)	103.9	104.5	106.5	102.8	103.4
Petrochemicals ^{dd}	GJ per tonnes of production	–	–	–	11.5	11.8
Energy consumption – Streamlined Energy and Carbon Reporting (SECR) ^{ee}						
UK and offshore ^{ff}	GWh/base units kWh	–	–	7,005	4,386	4,376
Global (excluding UK and offshore) ^{gg}	GWh/base units kWh	–	–	172,999	124,419	117,321

- o bp total figures and 'Exploration, production and LNG' data for GHG emissions and energy include bpx (onshore US operations).
- p Operational control data comprises 100% of emissions from activities operated by bp, going beyond the IPIECA guidelines by including emissions from certain other activities such as contracted drilling activities.
- q We provide data on GHG emissions material to our businesses on a carbon dioxide-equivalent basis. This includes CO₂ and methane for Scope 1 emissions.
- r Sustainable emissions reductions (SERs) result from actions or interventions that have led to ongoing reductions in Scope 1 (direct) and/or Scope 2 (indirect) greenhouse gas (GHG) emissions (carbon dioxide and methane) such that GHG emissions would have been higher in the reporting year if the intervention had not taken place. SERs must meet three criteria: a specific intervention that has reduced GHG emissions, the reduction must be quantifiable and the reduction is expected to be ongoing. Reductions are reportable for a 12-month period from the start of the intervention/action.
- s Scope 1 (direct) and Scope 2 (indirect) GHG emissions in tCO₂e from bp operated exploration, production and LNG assets per thousand boe of upstream oil and gas production.
- t Scope 1 (direct) and Scope 2 (indirect) GHG emissions in tCO₂e from bp operated refineries per utilized equivalent distillation capacity.
- u Scope 1 (direct) and Scope 2 (indirect) GHG emissions in tCO₂e from bp operated petrochemical facilities per thousand tonnes of petrochemicals produced.
- v Methane intensity refers to the amount of methane emissions from bp's operated upstream oil and gas assets as a percentage of the total gas that goes to market from those operations. Our methodology is aligned with the Oil and Gas Climate Initiative's (OGCI).
- w We report the total hydrocarbons flared from our upstream operations.

- x bp equity share data comprises 100% of emissions from subsidiaries and the percentage of emissions equivalent to our share of joint arrangements and associates, other than bp's share of Rosneft. On 27 February 2022, following the military action in Ukraine, the bp board announced that bp intends to exit its 19.75% shareholding in Rosneft Oil Company (Rosneft).
- y bp equity Scope 1 (direct) and Scope 2 (indirect) GHG emissions in tCO₂e from exploration, production and LNG assets per thousand boe of upstream oil and gas production.
- z bp equity Scope 1 (direct) and Scope 2 (indirect) GHG emissions in tCO₂e from refineries per utilized equivalent distillation capacity.
- aa Total energy consumption in line with Streamlined Energy and Carbon Reporting (SECR).
- bb Total energy consumption in GJ from bp operated exploration, production and LNG assets per thousand boe of upstream oil and gas production.
- cc Based on Solomon Associates Energy Intensity Index methodology.
- dd Total energy consumption in GJ from bp operated petrochemicals facilities per thousand tonnes of petrochemical production. This replaces the previous petrochemicals (energy intensity) metric which included total primary energy consumption in the numerator.
- ee Energy content of flared or vented gas is excluded from energy consumption reported as although they reflect loss of energy resources, they do not reflect energy use required for production or manufacturing of products.
- ff UK and offshore energy consumption 4,376,000,000kWh in 2022.
- gg Global (excluding UK and offshore) energy consumption 117,321,000,000kWh in 2022.



Safety^{hh}

Metric	Unit	2018	2019	2020	2021	2022
Personal safety^{hhii}						
Fatalities – workforce ^{jj}	#	1	2	1	1	4
employee	#	0	1	1	0	2
contractor	#	1	1	0	1	2
Day away from work cases (DAFWC) – workforce ^{kk}	#	79	77	58	56	78
employee	#	33	29	19	18	38
contractor	#	46	48	39	38	40
Day away from work cases (DAFWC) – workforce – production ^{kk}	#	–	–	–	6	4
employee	#	–	–	–	0	0
contractor	#	–	–	–	6	4
Day away from work cases (DAFWC) – workforce – refining ^{kk}	#	–	–	–	14	16
employee	#	–	–	–	6	4
contractor	#	–	–	–	8	12
Day away from work cases (DAFWC) – workforce – unconventional onshore US ^{kk}	#	–	–	–	–	4
employee	#	–	–	–	–	0
contractor	#	–	–	–	–	4
Day away from work cases (DAFWC) – workforce – other ^{kk}	#	–	–	–	–	54
employee	#	–	–	–	–	34
contractor	#	–	–	–	–	20
Day away from work case frequency (DAFWCF) – workforce ^{ll}	DAFWC per 200,000 hours worked	0.048	0.047	0.044	0.051	0.068
employee	DAFWC per 200,000 hours worked	0.046	0.042	0.031	0.035	0.082
contractor	DAFWC per 200,000 hours worked	0.049	0.050	0.054	0.064	0.058

Metric	Unit	2018	2019	2020	2021	2022
Day away from work case frequency (DAFWCF) – workforce – production ^{ll}	DAFWC per 200,000 hours worked	–	–	–	0.046	0.034
employee	DAFWC per 200,000 hours worked	–	–	–	0.000	0.000
contractor	DAFWC per 200,000 hours worked	–	–	–	0.072	0.051
Day away from work case frequency (DAFWCF) – workforce – refining ^{ll}	DAFWC per 200,000 hours worked	–	–	–	0.089	0.083
employee	DAFWC per 200,000 hours worked	–	–	–	0.090	0.059
contractor	DAFWC per 200,000 hours worked	–	–	–	0.088	0.096
Day away from work case frequency (DAFWCF) – workforce – unconventional onshore US ^{ll}	DAFWC per 200,000 hours worked	–	–	–	–	0.103
employee	DAFWC per 200,000 hours worked	–	–	–	–	0.000
contractor	DAFWC per 200,000 hours worked	–	–	–	–	0.130
Day away from work case frequency (DAFWCF) – workforce – other ^{ll}	DAFWC per 200,000 hours worked	–	–	–	–	0.067
employee	DAFWC per 200,000 hours worked	–	–	–	–	0.098
contractor	DAFWC per 200,000 hours worked	–	–	–	–	0.044
Recordable injuries (RI) – workforce ^{mmm}	#	328	273	174	181	215
employee	#	108	88	57	60	80
contractor	#	220	185	117	121	135
Recordable injuries (RI) – workforce – production ^{mmm}	#	–	–	–	41	23
employee	#	–	–	–	9	9
contractor	#	–	–	–	32	14

Safety

Metric	Unit	2018	2019	2020	2021	2022
Recordable injuries (RI) – workforce – refining ^{mm}	#	–	–	–	56	50
employee	#	–	–	–	24	19
contractor	#	–	–	–	32	31
Recordable injuries (RI) – workforce – unconventional onshore US ^{mm}	#	–	–	–	–	8
employee	#	–	–	–	–	0
contractor	#	–	–	–	–	8
Recordable injuries (RI) – workforce – other ^{mm}	#	–	–	–	–	134
employee	#	–	–	–	–	52
contractor	#	–	–	–	–	82
Recordable injury frequency (RIF) – workforce ⁿⁿ	recordable injuries per 200,000 hours worked	0.198	0.166	0.132	0.164	0.187
employee	recordable injuries per 200,000 hours worked	0.152	0.128	0.094	0.117	0.173
contractor	recordable injuries per 200,000 hours worked	0.233	0.193	0.163	0.204	0.196
Recordable injury frequency (RIF) – workforce – production ⁿⁿ	recordable injuries per 200,000 hours worked	–	–	–	0.316	0.197
employee	recordable injuries per 200,000 hours worked	–	–	–	0.194	0.235
contractor	recordable injuries per 200,000 hours worked	–	–	–	0.384	0.178

Metric	Unit	2018	2019	2020	2021	2022
Recordable injury frequency (RIF) – workforce – refining ⁿⁿ	recordable injuries per 200,000 hours worked	–	–	–	0.355	0.258
employee	recordable injuries per 200,000 hours worked	–	–	–	0.359	0.280
contractor	recordable injuries per 200,000 hours worked	–	–	–	0.352	0.247
Recordable injury frequency (RIF) – workforce – unconventional onshore US ⁿⁿ	recordable injuries per 200,000 hours worked	–	–	–	–	0.206
employee	recordable injuries per 200,000 hours worked	–	–	–	–	0.000
contractor	recordable injuries per 200,000 hours worked	–	–	–	–	0.261
Recordable injury frequency (RIF) – workforce – other ⁿⁿ	recordable injuries per 200,000 hours worked	–	–	–	–	0.167
employee	recordable injuries per 200,000 hours worked	–	–	–	–	0.150
contractor	recordable injuries per 200,000 hours worked	–	–	–	–	0.180
Hours worked – workforce	million hours	331	329	264	221	230
employee	million hours	143	138	121	102	92
contractor	million hours	189	191	144	119	138

Safety

Metric	Unit	2018	2019	2020	2021	2022
Process safety ^{hhi}						
Tier 1 process safety events ^{oo}	#	16	26	17	16	17
production	#	—	—	—	2	1
refining	#	—	—	—	6	9
unconventional onshore US	#	—	—	—	—	5
other	#	—	—	—	—	2
Tier 2 process safety events ^{pp}	#	56	72	53	46	33
production	#	—	—	—	9	5
refining	#	—	—	—	23	13
unconventional onshore US	#	—	—	—	—	13
other	#	—	—	—	—	2
Vehicle safety ^{hhi}						
Severe vehicle accident rate ^{qq}	accidents per million km driven	0.04	0.05	0.01	0.03	0.04
Total vehicle accident rate ^{rr}	accidents per million km driven	0.87	0.91	0.71	0.8	0.72
Severe vehicle accidents	#	18	24	5	10	10
Total vehicle accidents	#	431	430	261	227	205
Kilometres driven	million km	457	444	329	269	268

hh bp total figures for safety data include bpx (onshore US operations). Where the combined totals are broken down, bpx safety data is included under 'unconventional onshore US'.

ii This represents reported incidents occurring within bp's operational HSSE reporting boundary. That boundary includes bp's own operated facilities and certain other locations or situations.

jj The total number of fatalities by employee and contractor for bp group.

kk DAFWC – Day away from work cases: the number of incidents that resulted in an injury where a person is unable to work for a day (shift) or more.

ll DAFWCF – Day away from work case frequency: the number of DAFWC incidents per 200,000 hours worked.

mm RI – Recordable injury: the number of work-related incidents that result in injuries or that caused fatality, loss of consciousness, restriction of work or motion, transfer to another job, or require treatment other than simple first aid.

nn RIF – Recordable injury frequency: the number of reported RI incidents per 200,000 hours worked.

oo Losses of primary containment from a process of greatest consequence – such as causing harm to a member of workforce, costly damage to equipment or exceeding defined quantities (per API Tier 1 definitions).

pp Losses of primary containment of lesser consequence (per API Tier 2 definitions).

qq Rate of severe vehicle accidents (per one million km) involving light and heavy motor vehicles being operated by a member of the bp workforce while undertaking business travel, resulting in fatality, recordable injury, or vehicle rollover.

rr Total vehicle accident rate (TVAR) is the sum of all on-road and off-road motor vehicle accidents per one million kilometres driven. The measure is concerned with any accident, whether it caused harm to any person or only resulted in vehicle damage.

Environment

Metric	Unit	2018	2019	2020	2021	2022
Spills^{ss}						
Loss of primary containment ^{tt}	#	186	237	189	191	178
Oil spills – number (>= 1bbl) ^{uu}	#	124	152	121	121	108
contained ^{vv}	#	63	90	70	73	57
reaching land ^{ww}	#	49	53	36	45	39
reaching water ^{ww}	#	8	5	10	2	7
Oil spills – number (>= 1bbl) – production	#	–	–	–	21	22
contained ^{vv}	#	–	–	–	16	13
reaching land ^{ww}	#	–	–	–	3	2
reaching water ^{ww}	#	–	–	–	2	7
Oil spills – number (>= 1bbl) – refining	#	–	–	–	34	38
contained ^{vv}	#	–	–	–	13	16
reaching land ^{ww}	#	–	–	–	20	18
reaching water ^{ww}	#	–	–	–	0	0
Oil spills – number (>= 1bbl) – unconventional onshore US	#	–	–	–	–	24
contained ^{vv}	#	–	–	–	–	12
reaching land ^{ww}	#	–	–	–	–	12
reaching water ^{ww}	#	–	–	–	–	0
Oil spills – number (>= 1bbl) – other	#	–	–	–	–	24
contained ^{vv}	#	–	–	–	–	16
reaching land ^{ww}	#	–	–	–	–	7
reaching water ^{ww}	#	–	–	–	–	0
Oil spills – volume	thousand litres	538	710	784	655	1,005
unrecovered ^{xx}	thousand litres	131	300	494	308	335
recovered	thousand litres	–	–	289	347	671
production – spilled	thousand litres	–	–	–	59	343
production – unrecovered ^{xx}	thousand litres	–	–	–	7	13
refining – spilled	thousand litres	–	–	–	224	458
refining – unrecovered ^{xx}	thousand litres	–	–	–	89	138

Metric	Unit	2018	2019	2020	2021	2022
unconventional onshore US – spilled	thousand litres	–	–	–	–	177
unconventional onshore US – unrecovered ^{xx}	thousand litres	–	–	–	–	173
other – spilled	thousand litres	–	–	–	–	28
other – unrecovered ^{xx}	thousand litres	–	–	–	–	11
Water^{yy}						
Total freshwater withdrawal	million m ³	268.8	281.0	275.6	239.4	221.0
Exploration, production and LNG	million m ³	–	–	–	4.1	6.1
Refining and chemicals	million m ³	–	–	–	231.9	211.1
Other	million m ³	–	–	–	–	3.7
Total water withdrawal – reclaimed and recycled water	million m ³	2.2	2.3	3.1	2.4	2.8
Exploration, production and LNG	million m ³	–	–	–	0.0	0.1
Refining and chemicals	million m ³	–	–	–	2.4	2.7
Other	million m ³	–	–	–	–	0.0
Total freshwater withdrawal in areas with water stress or scarcity	%	–	7	7	1	0
Freshwater withdrawal intensity	t withdrawn/t production	1.1	1.0	1.2	1.1	1.0
Exploration, production and LNG	t withdrawn/t production	–	–	–	0.0	0.0
Refining and chemicals	t withdrawn/t throughput	–	–	–	2.8	2.7
Freshwater consumption	million m ³	85.9	90.8	75.4	53.6	51.7
percentage of withdrawal	%	32	32	27	22	23
in areas with water stress or scarcity	%	–	16	19	4	1
Freshwater consumption intensity	t consumed/t production	0.3	0.3	0.3	0.2	0.2
Discharges to water – Exploration, production and LNG						
mass of produced water managed per unit of mass production	t/t	0.7	0.7	0.6	0.4	0.4
produced water generated	million tonnes	101	112	85	49	50

Environment

Metric	Unit	2018	2019	2020	2021	2022	Metric	Unit	2018	2019	2020	2021	2022
produced water generated discharged	million tonnes	18	19	22	21	17	Air emissions – sulphur oxides	kt	32	23	19	10	10
produced water generated injected	million tonnes	83	93	63	28	33	Exploration, production and LNG	kt	–	–	–	1	0
produced water generated evaporated	million tonnes	–	–	<1	<1	<1	Refining and chemicals	kt	–	–	–	9	8
oil discharged in muds and cuttings	tonnes	122	35	0	0	0	Other	kt	–	–	–	–	1
synthetic based fluids discharged in drilling muds and cuttings	tonnes	2,389	1,277	27	1,668	965	Air emissions – non-methane hydrocarbons	kt	64	67	56	42	39
drilling chemicals	tonnes	26,881	31,367	43,523	42,825	5,652	Exploration, production and LNG	kt	–	–	–	30	22
production chemicals excluding drilling	tonnes	18,798	19,764	10,917	17,534	9,567	Refining and chemicals	kt	–	–	–	4	4
oil discharged – in produced water and effluent	tonnes	451	376	432	1,042	390	Other	kt	–	–	–	–	12
hydrocarbon concentration in discharged water	mg/l	25.4	20.0	19.9	49.7	22.5	Air emissions – methane group	kt	95	96	75	45	30
Discharges to water – Refining and chemicals total water discharged	million m ³	–	–	–	59	55	Exploration, production and LNG	kt	–	–	–	43	28
Refining and chemicals – discharged to third party operated wastewater treatment plant	million m ³	–	–	–	13.6	12.6	Refining and chemicals	kt	–	–	–	1	1
Refining and chemicals – discharged to bp operated wastewater treatment plant	million m ³	–	–	–	45.6	42.1	Other	kt	–	–	–	–	1
Refining and chemicals – chemical oxygen demand (COD)	mg/l	–	–	–	38.2	40.3	Waste ^{yy}						
Discharges to water – Refining and chemicals COD discharged	tonnes	–	–	–	1,741	1,698	Hazardous waste generated (excluding deepwell) ^{zz}	kt	–	–	133.7	156.5	153.6
Air emissions ^{yy}							Hazardous waste recovered-recycled offsite (excluding deepwell) ^{zz}	kt	–	–	53.1	59.1	76.4
Total emissions to air	kt	305	296	229	140	117	Exploration, production and LNG	kt	–	–	–	20.3	18.8
Exploration, production and LNG	kt	–	–	–	100	72	Refining and chemicals	kt	–	–	–	33.8	47.8
Refining and chemicals	kt	–	–	–	24	23	Other	kt	–	–	–	–	9.7
Other	kt	–	–	–	–	21	Hazardous waste disposed (excluding deepwell) ^{zz}	kt	182.8	142.6	80.6	97.4	77.2
Air emissions – nitrogen oxides	kt	115	110	79	43	39	Exploration, production and LNG	kt	–	–	–	19.6	18.1
Exploration, production and LNG	kt	–	–	–	27	21	Refining and chemicals	kt	–	–	–	65.5	49.7
Refining and chemicals	kt	–	–	–	9	9	Other	kt	–	–	–	–	9.4
Other	kt	–	–	–	–	8	Non-hazardous waste generated	kt	–	491.1	406.3	370.1	393.2
							Non-hazardous waste recovered-recycled offsite	kt	112.7	262.8	203.2	194.5	165.7
							Exploration, production and LNG	kt	–	–	–	14.6	15.7
							Refining and chemicals	kt	–	–	–	157.3	125.1
							Other	kt	–	–	–	–	24.9

Environment

Metric	Unit	2018	2019	2020	2021	2022
Non-hazardous waste disposed offsite	kt	241.5	228.3	203.1	175.6	227.6
Exploration, production and LNG	kt	—	—	—	63.2	108.6
Refining and chemical	kt	—	—	—	83.5	102.9
Other	kt	—	—	—	—	16.1
Other						
Environmental expenditure ^{aaa}	\$ million	1,546	2,319	412	2,195	126
Percentage of major operating sites externally verified to be in conformance with ISO 14001	%	—	100	100	100	100
Number of major operating sites in or adjacent (within 1km) to protected areas ^{bbb}	#	—	—	—	10	9
Area of major operating sites overlapping with protected areas	hectares	—	—	—	3,365	3,365
Number of major operating sites in or adjacent (within 1km) to key biodiversity areas ^{bbb}	#	—	—	—	3	4
Area of major operating sites overlapping with key biodiversity areas	hectares	—	—	—	551	3,111

ss bp total figures for spills include bpx (onshore US operations). Where the combined totals are broken down, bpx spills data is included under 'unconventional onshore US'.

tt Loss of primary containment records any unplanned or uncontrolled release of material (excluding small or non-hazardous releases such as water) from a tank, vessel, pipe, rail car or equipment used for containment.

uu Any loss of primary containment of one barrel or more of liquid hydrocarbon (1 barrel = 159 litres = 42 gallons).

vv The number of spills from primary containment. This number contains a small number of unclassified spills.

ww The number of spills which breach containment (primary or secondary) and reach the environment, either to land or to water.

xx The volume of oil remaining in land or water after recovery operations.

yy bp totals and "Exploration, production and LNG" data for water, air and waste include bpx (onshore US operations).

zz Hazardous waste does not include waste which is disposed of under licence to deepwell.

aaa Operating and capital expenditure on the prevention, control, treatment or elimination of air and water emissions and solid waste is often not incurred as a separately identifiable transaction. Instead, it forms part of a larger transaction that includes, for example, normal operations and maintenance expenditure. The figure for environmental expenditure is therefore estimated, based on the definitions and guidelines of the American Petroleum Institute.

bbb A major operation may exist within or near more than one type of protected area or key biodiversity area.

Social

Metric	Unit	2018	2019	2020	2021	2022
Community						
Economic value generated by bp	\$ million	303,900	283,300	188,000	167,100	246,700
payments to suppliers	\$ million	255,900	233,600	165,300	122,200	174,000
benefits to employees ^{ccc}	\$ million	10,490	9,836	9,909	8,857	9,587
taxes to governments ^{ddd}	\$ million	7,527	6,913	3,337	5,378	12,453
social investment spend	\$ million	114	84	77	51	93
Social investment spend – bp Foundation	\$ million	6.4	9.1	6.4	3.1	6.4
Social investment spend – bp Foundation – bp matching	\$ million	6.1	8.3	6.1	4.0	6.0
Social investment spend – bp Foundation – natural disaster relief	\$ million	0.4	0.4	2.3	0.4	0.4
Total dividends distributed to bp shareholders ^{eee}	\$ million	8,080	8,329	6,340	4,304	4,358
Percentage of major operating sites in indigenous land	%	–	17	13	13	12
Community complaints ^{fffggg}						
damage to property/crops	%	23	27	7	3	3
job opportunities	%	23	24	41	11	7
nuisance (odour, noise and dust)	%	21	19	42	59	51
social investment	%	12	10	2	3	7
other	%	11	6	6	11	22
security arrangements	%	7	10	1	0	0
flaring	%	2	4	1	12	10
discharges to water	%	1	0	0	0	1
impact on traditional indigenous, recreational or cultural activities	%	–	–	–	0	0
bp people						
Number of employees	#	73,000	70,100	63,600	65,900	67,600
percentage female	%	35	38	39	39	39
percentage male	%	–	62	61	61	61
percentage female – graduate hires	%	48	45	40	45	43

Metric	Unit	2018	2019	2020	2021	2022
percentage male – graduate hires	%	–	–	54	54	57
percentage female – experienced hires	%	40	39	37	39	35
percentage male – experienced hires	%	–	–	63	61	65
percentage female – leadership team	%	15	15	33	36	55
percentage male – leadership team	%	–	–	67	64	45
percentage female – group leaders	%	24	25	29	32	33
percentage male – group leaders	%	–	–	71	68	67
percentage female – senior leaders	%	25	26	27	29	30
percentage male – senior leaders	%	–	–	73	71	70
percentage female – board of directors	%	36	42	45	40	45
percentage male – board of directors	%	–	–	55	60	55
25 and under	#	–	–	–	7,700	8,300
26-30	#	–	–	–	7,500	7,200
31-35	#	–	–	–	9,300	9,500
36-40	#	–	–	–	10,500	10,400
41-45	#	–	–	–	9,600	9,900
46-50	#	–	–	–	8,500	8,600
51-55	#	–	–	–	6,700	7,000
56-60	#	–	–	–	4,100	4,400
61 and over	#	–	–	–	2,000	2,300
Number of employees – group leaders	#	376	378	270	281	278
Number of employees						
Europe	#	–	33,000	31,900	31,500	31,900
US and Canada	#	–	13,600	10,600	12,800	13,800
Asia Pacific	#	–	14,700	13,000	13,400	14,100
South and Central America	#	–	1,500	1,500	2,400	2,400



Social

Metric	Unit	2018	2019	2020	2021	2022	Metric	Unit	2018	2019	2020	2021	2022
Middle East, North Africa	#	–	5,200	4,900	4,400	4,400	Rate of employee exits ^{hhh}	%	12	18	20	24	24
Sub-Saharan Africa	#	–	1,800	1,700	1,400	1,000	25 and under	%	–	–	–	61	71
production & operations	#	–	–	–	8,800	8,600	26-30	%	–	–	–	30	31
customers & products	#	–	–	–	43,600	44,700	31-35	%	–	–	–	19	21
gas & low carbon energy	#	–	–	–	4,000	4,200	36-40	%	–	–	–	16	15
other businesses & corporate	#	–	–	–	9,500	10,100	41-45	%	–	–	–	14	13
Women in group leadership	%	24	25	29	32	33	46-50	%	–	–	–	15	12
Women at management level	%	31	31	32	33	34	51-55	%	–	–	–	17	12
People from racial minorities in UK and US group leadership	%	11	14	18	17	18	56-60	%	–	–	–	26	16
People from beyond the UK and US in group leadership	%	24	25	30	31	33	61 and over	%	–	–	–	40	24
Number of employee exits ^{hhh}	#	–	–	–	15,212	14,240	male	%	–	–	–	21	20
25 and under	#	–	–	–	4,269	4,981	female	%	–	–	–	29	29
26-30	#	–	–	–	2,144	2,142	Asia Pacific	%	–	–	–	36	33
31-35	#	–	–	–	1,699	1,739	Europe	%	–	–	–	24	26
36-40	#	–	–	–	1,571	1,467	Middle East & North Africa	%	–	–	–	14	5
41-45	#	–	–	–	1,300	1,188	Russia	%	–	–	–	13	112
46-50	#	–	–	–	1,212	921	South & Central America	%	–	–	–	18	7
51-55	#	–	–	–	1,134	752	Sub-Saharan Africa	%	–	–	–	18	44
56-60	#	–	–	–	1,051	600	US & Canada	%	–	–	–	18	10
61 and over	#	–	–	–	829	449	Number of new employee hires ⁱⁱⁱ	#	–	14,281	9,079	12,742	15,178
male	#	–	–	–	8,025	7,370	25 and under	#	–	5,795	4,128	5,363	6,510
female	#	–	–	–	7,160	6,846	26-30	#	–	2,282	1,507	2,245	2,386
Asia Pacific	#	–	–	–	4,660	4,511	31-35	#	–	1,814	1,162	1,759	2,004
Europe	#	–	–	–	7,366	7,870	36-40	#	–	1,431	747	1,187	1,458
Middle East & North Africa	#	–	–	–	674	217	41-45	#	–	1,056	622	812	1,058
Russia	#	–	–	–	24	110	46-50	#	–	807	435	604	804
South & Central America	#	–	–	–	223	81	51-55	#	–	565	246	406	489
Sub-Saharan Africa	#	–	–	–	304	532	56-60	#	–	310	150	230	294
US & Canada	#	–	–	–	1,961	919	61 and over	#	–	183	80	120	170
							male	#	–	7,450	4,609	6,259	8,018

Social

Metric	Unit	2018	2019	2020	2021	2022
female	#	–	6,775	4,438	6,458	7,132
Asia Pacific	#	–	3,307	2,464	5,090	5,214
Europe	#	–	8,493	5,549	6,579	8,226
Middle East & North Africa	#	–	311	136	143	320
Russia	#	–	16	7	12	3
South & Central America	#	–	653	101	103	80
Sub-Saharan Africa	#	–	178	110	83	103
US & Canada	#	–	1,323	712	732	1,232
Rate of new employee hires ⁱⁱⁱ	%	–	20	14	19	22
25 and under	%	–	74	58	77	87
26-30	%	–	27	21	33	36
31-35	%	–	17	13	21	23
36-40	%	–	13	7	12	16
41-45	%	–	11	7	9	12
46-50	%	–	9	5	8	10

Metric	Unit	2018	2019	2020	2021	2022
51-55	%	–	8	4	7	8
56-60	%	–	6	4	6	7
61 and over	%	–	7	4	6	8
Male	%	–	16	12	17	22
Female	%	–	27	18	27	30
Asia Pacific	%	–	23	19	38	37
Europe	%	–	28	17	22	27
Middle East & North Africa	%	–	6	3	3	7
Russia	%	–	6	4	7	38
South & Central America	%	–	12	7	9	7
Sub-Saharan Africa	%	–	10	7	6	10
US & Canada	%	–	10	7	8	13
Pulse survey						
employee engagement	%	66	65	64	64	70
pride in working for bp	%	76	75	75	73	78

ccc Includes wages, salaries, share-based payments, benefits and pensions.

ddd Comprises income taxes and production taxes paid.

eee This includes dividends paid in cash and scrip dividends.

fff Community complaint data excludes data from bpx (onshore US operations). bpx data is included in all other social metrics.

ggg Due to rounding the sum of the component parts may not exactly equal 100%.

hhh From 2021, the retail population is included in employee exits.

iii Absolute number of new employee hires.

jjj New employee hires expressed as a percentage of headcount at the end of the reporting period.

Governance

Metric	Unit	2018	2019	2020	2021	2022
Ethics and compliance						
Concerns and enquiries raised through all reporting channels ^{kkk}	#	1,710	1,849	1,608	1,414	1,367
Concerns and enquiries raised through OpenTalk ^{kkk}	#	843	788	600	584	606
Concerns and enquiries raised – raised with management ^{kkk}	#	867	1,061	1,008	830	761
Separations (dismissals, resignations and supplier terminations) for non-compliance and unethical behaviours ^{III}	#	178	138	79	35	51
Employees completing anti-bribery and corruption training	#	–	11,000	7,700	12,700	7,500
Other						
Countries bp has a presence in	#	78	79	72	66	62
Retail sites	#	18,700	18,900	20,300	20,500	20,650

kkk Excluding duplicate concerns.

III Excludes dismissals of contractors/vendors and staff employed at our retail sites. Excludes heliport spot checks.

Key definitions

Areas of water stress and scarcity

Defined as areas of medium to high, high and very high water stress based on World Resources Institute baseline water stress.

Chemical oxygen demand (COD)

The capacity of water to consume oxygen during the decomposition of organic matter and the oxidation of inorganic chemicals such as ammonia and nitrite. COD measurements are commonly made on samples of waste waters or natural waters contaminated by domestic or industrial wastes.

In wastewater treatment, COD is used as an index to assess the effect discharged wastewater will have on the receiving environment.

Fatality

A workforce fatality is any death of an employee or contractor as a result of a work-related incident.

Hazardous waste

Waste that is classified as hazardous (or the regulatory equivalent) by the local regulatory authority.

Key biodiversity area

Key biodiversity areas (KBA) are sites contributing significantly to the global persistence of biodiversity, in terrestrial, freshwater and marine ecosystems.

The Global Standard for the Identification of Key Biodiversity Areas (IUCN 2016) sets out globally agreed criteria for the identification of KBAs worldwide.

Protected area

Protected area is defined as a clearly defined geographical space, recognized, dedicated and managed, through legal or other effective means, to achieve the long-term conservation of nature with associated ecosystem services and cultural values (IUCN definition). IUCN refer to six different categories of protected area (IUCN category I to VI) corresponding to different levels of protection. Protected areas for the purposes of our reporting metric also include formally designated Ramsar wetland sites and UNESCO World Heritage Sites, and in Europe, Natura 2000 sites. Protected Areas boundaries are derived from the World Database on Protected Areas. For some protected areas in this database, the IUCN category is not reported, not assigned or not applicable.

 See bp.com/protectedareas

Loss of primary containment (LOPC)

An unplanned or uncontrolled release of oil, gas or other hazardous materials from a tank, vessel, pipe, truck, rail car or other equipment used for storage, separation, processing or transfer.

Major operating sites

A site or grouping of sites that produce or manage petroleum, chemical, or manufactured products where such products, their production processes, or their exploration processes have the potential to cause significant impact on the environment or the safety and health of employees, neighbours, or consumers.

Non-hazardous waste

Waste that is not classified as hazardous (or the regulatory equivalent) by the local regulatory authority.

Oil spill

Any liquid hydrocarbon release of more than, or equal to, one barrel (159 litres, equivalent to 42 US gallons).

Sustainable emissions reductions (SERs)

Sustainable emissions reductions (SERs) result from actions or interventions that have led to ongoing reductions in Scope 1 (direct) and/or Scope 2 (indirect) GHG emissions (carbon dioxide and methane) such that GHG emissions would have been higher in the reporting year if the intervention had not taken place. SERs must meet three criteria: bp made a specific intervention that has reduced GHG emissions, bp must be able to quantify the reduction and the reduction is expected to be ongoing. Reductions are reportable for a 12-month period from the start of the intervention/action.

Tier 1 process safety event

Losses of primary containment of greatest consequence – causing harm to a member of the workforce, costly damage to equipment or exceeding defined quantities (per API Tier 1 definitions).

Tier 2 process safety event

Losses of primary containment of lesser consequence (per API Tier 2 definitions).

Give your feedback

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