## **Oil and Gas Sector:** 2022 Climate Transition



Global Climate Insights•



#### 5 May 2022 | 2022 AGM

#### Climate is front and centre in this AGM season

In this note we analyse the climate transition plans of major oil and gas stocks we currently cover (BP and Shell) alongside a diverse set of peers (ExxonMobil, Equinor and TotalEnergies). Heading into the 2022 AGM season, all but ExxonMobil (Exxon) have put forward their climate transition plans for a shareholder vote (Say on Climate - SOC style vote). We assess the success of companies in shifting away from hydrocarbons between FY19-21, and compare their current climate plans.

## Who has the best climate transition plan? Critically, none have addressed ongoing emissions. Exxon overall clear laggard - disclosures, targets, strategy, climate links with remuneration.

Reducing absolute emissions is a step towards preserving long-term shareholder value in an increasingly disruptive transition. All companies we reviewed have an absolute emission target for scope 1 and 2. Only BP addresses scope 3 with a clear target, but divestment is its primary driver of reduction, which will not contribute to global decarbonisation. The chart below shows the reduction in emissions implied by absolute targets between FY19-30. The low percentage of implied emissions reduction (<10%) risks the likelihood of achieving meaningful decarbonisation across a company's portfolio: any increase in the rest (90%) of its scope 3 absolute emissions will likely outweigh the targeted decrease. Exxon remains the clear laggard, even with its new climate-progressive board members.

## Has there been progress? There is no material progress across the sector on linking climate with business strategy: investing surplus cash profits for transition, and remuneration to emissions.

As of today, none of the companies' performances are Paris-aligned. There is no indication that, outside of the effects of COVID-19, any company has reduced their absolute emissions, which were flat across peers in FY21. Climate transition plans remain too high level and detached from business fundamentals. Companies are adding, but not displacing, hydrocarbon products with renewable alternatives.

## Chart: FY19-FY30 emission reduction from absolute targets (LHS, Mt CO<sub>2</sub>e), % of implied sold oil and gas (O&G) emissions (RHS)





## **Reported emissions**



Chart: Scope 1 and 2 (operational), disclosed scope 3 GHG emissions, Mt  $\rm CO_2 e$ 

Exxon has large gaps in its emissions disclosure, not yet reporting FY21 and incomplete disclosure for scope 3 in FY20

Across the five companies absolute emissions were flat in FY21 (estimated for Exxon)





Exxon's larger scope 1 and 2 is reflective of its higher production of oil and gas (10% higher than next peer in FY20) and higher carbon intensity (26 t CO<sub>2</sub>e/boed vs its next peer Shell 21 t CO<sub>2</sub>e/boed, see page 7)



Chart: GCI | Source: Company Data, GCI

Although Shell reports the highest scope 3 emissions, we believe this is reflective of its methodology, using products sales (including third-party), the largest boundary for scope 3

Scope 3 from *sales* is required to assess exposure and influence over emissions

Data, GCI Global Climate Insights

## Emission reduction targets

#### Chart: Absolute scope 1 and 2 targets FY30 (%)



#### Chart: Absolute scope 3 targets FY30 (%)



#### Chart: Intensity target lifecycle emissions FY30 (%)



All companies have set absolute targets for scope 1 and 2 reduction

Exxon shows the least ambition, aiming to reduce scope 1 and 2 emissions by 20%, less than half of Shell, BP and Equinor

Note, Exxon emissions are based on FY20 as FY21 has not yet been disclosed

BP is the only company to have set clear absolute scope 3 targets, although they are predominantly driven by divestment which will not provide real world emissions reduction

We have excluded TotalEnergies' aspiration from our charts and analysis given there is no quantifiable emissions reduction between FY21 and FY30.

Exxon has not set a target for lifecycle emissions intensity for FY30; BP has set a range for its reduction in lifecycle emissions of between 15-20%

Only Shell and BP have intensity targets that include third-party products

## Oil and gas volumes

#### Chart: Oil and gas sales (million boe/d FY19-FY21)<sup>1</sup>



#### Chart: Oil and gas production (million boe/d FY19-21)



To align with Paris, companies have to transition their products from hydrocarbons to renewable alternatives

We believe that volumes included in annual accounts may not accurately reflect all physically traded oil and gas. To estimate total oil and gas sales for BP and Shell we have added back previously netted transactions. A similar exercise is likely needed for most other oil majors to understand total oil and gas sales.

Exxon had the highest production of oil and gas between FY19 and FY21, reflective of its market position

Based on <u>net</u> oil and gas sales disclosed by companies, BP has the highest ratio of sales of own products to third party: for every barrel of BP's own product sold it sells 1.5 barrels of third party product

Exxon predominately sells its own products: for every barrel of its own product sold it sells 0.8 barrels of third party product

#### Chart: Proportion of oil and gas production to sales FY21



<sup>1</sup> BP and Shell's sales are estimated from its gross sales of oil and gas.

## Investment





FY21 free cash flow increased significantly across all companies given high oil and gas prices, particularly for Shell \$40.3bn and Exxon \$37.9bn

## Chart: Capital expenditure (US\$bn, organic & inorganic, FY21)<sup>2</sup>



In FY21 TotalEnergies has invested the most in transition. The majority of this appears to have been driven by its ~\$2.5bn purchase of a stake in Adani Green

Equinor discloses only organic low-carbon capex

Increases in operating expenditure for transition will also be key going forward as companies build new distribution for electrification



In FY21 TotalEnergies invested the largest percentage of its free cash flow in transition at 20%, followed by BP 12% and Shell 6%

Exxon does not disclose FY21 investment in low-carbon

<sup>2</sup> Equinor reflects organic capex only. Share of total capex (organic and inorganic) is not disclosed.

## Missing pieces

#### 100 80 60 \*BP equates to 17% 40 when accounting for traded products and crude oil \*XOM, TTE and EQNR 20 disclosures exclude traded sales 5% 5% 0 13% SHEL ΒP EQNR XOM TTE Global Climate Insights Chart: GCI | Source: Company Data, GCI Estimates

#### Chart: Disclosed emissions covered by absolute target (FY21)





Chart: Disclosed emissions as a percentage of implied emissions from oil and gas products sold



We have excluded TotalEnergies' scope 3 objective for emissions as it has not quantified emission reduction from FY21

Note, Exxon's emissions are based on FY20 as FY21 has not yet been disclosed

To quantify the gap in current emissions reporting we have calculated the implied emissions from <u>net</u> oil and gas sales for Exxon, TotalEnergies and Equinor, and gross sales for BP and Shell. We use EPA intensities as a standardised factor

Gross volumes are likely to be closer to actual oil and gas sales (including physically traded) than net volumes. Indicating that Exxon, TotalEnergies and Equinor may be underreporting emissions

This analysis shows that when comparing disclosed emissions to implied oil and gas emissions, Shell appears to be disclosing the most at ~99%. TotalEnergies and Equinor are lowest at ~45% to 46%

## A closer look at emissions

## Chart: FY20 Implied scope 1 and 2 intensity oil and gas produced (t $CO_2e/boed$ )



Comparing carbon intensity to oil and gas produced shows Exxon as the most carbon intensive producer at 26 t CO<sub>2</sub>e/boed, with Equinor appearing the most efficient

#### Chart: Absolute scope 1 and 2 targets FY30 - rebased to FY19



Companies set targets against different base years; for comparability we have re-based targets to FY19. This shows Exxon's target is even less ambitious than it appears, decreasing from 20% to 12%. BP's target is highest, but broadly in line with Shell

#### Chart: Scope 3 intensity targets FY30 - rebased to FY19



Rebased scope 3 intensity targets appear most ambitious for Shell (which also covers all third-party products sold). While Equinor is aiming for a 20% reduction this relates only to its own production

## Company transition plan: Shell Plc.

**AGM date:** 24 May 2022

Climate transition plan: Energy Transition Progress Report 2021 SOC vote: Yes

Absolute emissions reduction FY30						
FY30 Targets			Implied emission reduction from absolute targets FY19-30			
Scope 1 and 2	Scope 3 own production	Scope 3 products sold	Mt CO₂e	GCI estimated emissions from sold oil and gas FY19	Implied reduction/ sold oil and gas emissions	
Yes (operational)	No	No	38.5	1,650 Mt CO <sub>2</sub> e	2.3%	

Source: Company data, Global Climate Insights estimates

Guidance on absolute emissions reduction:

"We believe total carbon emissions from energy sold peaked in 2018 at around 1.7 gigatonnes CO<sub>2</sub>e per annum (Gt p.a.) and will be brought down to net zero by  $2050^{".3}$ 

Stated emission reduction targets						
Emissions scope	Target type	Base Year: <u>FY16</u>	FY21A	FY30 Target	FY50 Target	
Operational	berational Absolute emissions (scope 1 and 2)	83 Mt CO <sub>2</sub> e	68 Mt CO <sub>2</sub> e	41.5 Mt CO <sub>2</sub> e	0	
Operational		% on base year	-18%	-50%	-100%	
Sold products	Carbon intensity (scope 1,2,3)	79 gCO <sub>2</sub> /MJ	77 gCO <sub>2</sub> /MJ	63.2 gCO <sub>2</sub> /MJ	0	
		% on base year	-2.2%	-20%	-100%	

Source: Company data, Global Climate Insights estimates

Capital expenditure (organic and inorganic)					
Low carbon business definition	Low-Carbon Capex FY21	Low Carbon Capex guidance			
Renewables and Energy Solutions: EV charging, low carbon fuels (SAF, biodiesel, renewable gas), renewables, energy solutions.	12% of group, US\$2.4bn Renewables and Energy Solutions	FY22: Capex from Renewables and Energy Solutions ~\$3bn and Marketing \$5-6bn capex (~34% of group). By FY25, 50% of total spend (capex and opex) will go to energy transition.			

Source: Company data, Global Climate Insights estimates

#### Climate strategy

Primary Drivers	Secondary drivers
<ul> <li>Offsets 120 Mt p.a. by 2030</li> <li>Carbon Capture and Storage 25 Mt p.a. by 2035</li> <li>Growth in gas</li> </ul>	<ul> <li>Divestments (includes refineries)</li> <li>Growth in hydrogen</li> <li>Doubling electricity sold to 560 TWh</li> </ul>

Source: Company data, Global Climate Insights estimates

<sup>3</sup> Shell (released 2022) <u>Energy Transition Progress Report</u>, p. 11.

Drivers of change in emissions FY21

Scope 1 and 2: reduced power for gas compression (QGC Australia), portfolio changes (sale of Martinez and Puget refineries in the US), transformation of Bukom refinery in Singapore to a low-carbon energy and chemical park. <sup>4</sup>

Key climate transition data			
	FY19A	FY20A	FY21A
Disclosed emissions (Mt $CO_2e$ )			
Scope 1 and 2 (operational)	80	71	68
Scope 1 and 2 (equity)	105	98	Not disclosed
Scope 3 (own production)	564	452	380
Scope 3 (third-party sales)	886	749	777
Scope 3 (other)	102	103	142
Disclosed emissions <sup>5</sup>	1,632	1,375	1,367
% change (year on year)	-4.9%	-15.9%	-0.7%
% change - scope 1 and 2	-2.4%	-11%	-4%
% change - scope 3	-5.3%	-16%	-1%
Carbon intensity (gCO <sub>2</sub> /MJ) energy delivered, Net Carbon Intensity (NCI)	78	75	77 <sup>6</sup>
% change (year on year)	-1.3%	-3.8%	+2.7%
Offsets disclosed	2.2Mt in NCI (0.5Mt other)	3.9Mt in NCI (0.4Mt other)	5.1Mt in NCI (1.3Mt other)
Capital expenditure for Low carbon (organic a	nd inorganic)	1	1

Capex (\$US m)	23,919	17,827	19,698
Low-carbon capex (\$US m)	Not disclosed	900	2,400
% of group capex	Not disclosed	5.0%	12.2%

<sup>&</sup>lt;sup>4</sup> Shell (released 2022) <u>Energy Transition Progress Report</u>, p. 10

<sup>&</sup>lt;sup>5</sup> Total emissions differ slightly to the emissions included in Shell's Net Carbon Intensity

<sup>&</sup>lt;sup>6</sup> FY21 increase driven by a change in methodology

Remuneration					
Incentives linked to climate transition	Remuneration tied to stated emission reduction targets	2021 alignment of climate transition and remuneration			
<ul> <li>2022:</li> <li>Annual bonus scorecard: 15%</li> <li>LTIP: 20%</li> </ul>	<ul> <li>2022:</li> <li>Annual bonus: 5% (scope 1 and 2 target)</li> <li>LTIP: ~5%, net carbon intensity reduction of 2020-2022 3-4% from 2016<sup>7</sup></li> </ul>	<ul> <li>Some alignment. Low ambition.</li> <li>Annual bonus (2021): 15% weighting (including 5% for a minor 0.24% reduction in scope 1 and 2 emissions).</li> <li>LTIP (2019-2021): Included a 10% weighting for four energy transition activities (including a Net Carbon Intensity reduction). All were assessed as met. Shares were awarded despite three financial hurdles not being achieved.</li> </ul>			

Source: Company data, Global Climate Insights estimates

Lobbying		
2021 misaligned industry associations	2022 action taken on misalignment	InfluenceMap score
<ul> <li>Assessed 36 organisations</li> <li>8 organisations identified as misaligned (material misalignment Queensland Resources Council, QRC)</li> </ul>	<ul> <li>Remained members of all associations.</li> <li>QRC has released an updated Energy and Climate Policy in March 2022 and QRC has confirmed it will advocate in line with this policy.</li> <li>Increase engagement with the Texas Oil &amp; Gas Association.</li> <li>Monitoring other associations.</li> </ul>	Performance band: C-

Source: Company data, Global Climate Insights estimates

Company guidance						
Fuel	FY20A	FY21A	FY30 target	FY21-FY20 change	Progress	
Renewables <u>delivered</u> (GW)	0.96	1.2	~70 GW (>50m household equivalent)	24%	In line (41.5 GW in pipeline)	
Power delivered (TWh)	251	251	560	No change	Under	
Bioenergy production (kb/d)	1.1b litres (19kb/d)	1.1b litres (19 kb/d)	~8.8 litres (150 kb/d, 8x more low-carbon fuels)	No change	Under	
"Clean" hydrogen (renewables & gas with CCUS) production	Not disclosed	2 MW electrolyser capacity	10% market share by 2035	No guidance	Not able to assess	
Oil production (kboe/d)	1,803	1,739	1-2% p.a. decline in oil production	-3.5%	In line	
Gas production (kboe/d)	1,583	1,498	55% of hydrocarbon production from gas / +7 Mt p.a. LNG capacity	-5.4%	Unclear	
Refining throughput (kb/d)	1,875	1,496	Reduced production of traditional fuels by 55% (~55Mt p.a)	-20.2%	In line	
Third-party oil and gas sales (kboe/d)	3,173	3,349	No guidance	5.5%	N/A	

<sup>&</sup>lt;sup>7</sup> A net carbon intensity target is one of four targets considered as part of the 20% allocation for energy transition.

## Company transition plan: BP Plc.

AGM date: 12 May 2022

Climate transition plan:

"Net Zero - from ambition to action" report SOC vote: Yes

Absolute emissions reduction FY30					
FY30 Targets			Implied emission reduction from absolute targets FY19-30		
Scope 1 and 2	Scope 3 own production	Scope 3 products sold	Mt CO₂e	GCI estimated emissions from sold oil and gas FY19	Implied reduction/ sold oil and gas emissions
Yes (operational)	Yes	No	~162.5	1,958 Mt CO₂e	8.3% (driven by divestment)

Source: Company data, Global Climate Insights estimates

Guidance on absolute emissions reduction:

"We anticipate that the absolute level of emissions associated with our marketed products will grow up to 2030, even as the carbon intensity covered by aim 3 falls. This is mainly driven by our growth plans in fast-growing markets".<sup>8</sup>

Stated emission reduction targets						
Emissions scope	Target type	Base Year: <u>FY19</u>	FY21A	FY30 Target	FY50 Target	
Operational	Absolute	54.4 Mt CO <sub>2</sub> e	35.6 Mt CO <sub>2</sub> e	27 Mt CO <sub>2</sub> e	0	
(scope 1 & 2)		% on base year	-34.6%	-50%	-100%	
Operational Absolut	Absolute (scope 3) <sup>9</sup>	361 Mt CO <sub>2</sub> e	304 Mt CO <sub>2</sub> e	217-235 Mt CO <sub>2</sub> e	0	
		% on base year	-16%	-(35%-40%)	-100%	
Sold products	Carbon intensity (scope 1,2,3)	79 gCO₂/MJ	79 gCO <sub>2</sub> /MJ	63-67 gCO <sub>2</sub> /MJ	0	
		% on base year	-0.4%	-(15%-20%)	-100%	

Source: Company data, Global Climate Insights estimates

Capital expenditure (organic and inorganic)					
Low carbon business definition	Low-Carbon Capex FY21	Low Carbon Capex guidance			
Bioenergy, electrification, future mobility, CCUS, renewables, hydrogen	17%, \$2.2bn	50% of capex (\$7-8bn p.a.) directed towards transition business (includes convenience) .			

<sup>&</sup>lt;sup>9</sup> Net carbon intensity, estimated on a lifecycle (full value chain) basis from the use, production, and distribution of energy products per unit of energy (MJ) delivered.



<sup>&</sup>lt;sup>8</sup> BP (2020), <u>bp sustainability report</u>, p. 31.

Climate strategy				
Primary Drivers	Secondary drivers			
<ul> <li>Divestment (oil and gas production, refineries)</li> <li>Renewable electricity generation (50 GW by 2030)</li> <li>EV charging (&gt;100,000 charge points by 2030)</li> <li>Fossil energy products expansion in growth markets</li> </ul>	<ul> <li>Biofuels (100 kb/d)</li> <li>Renewable hydrogen production (10% share of core markets)</li> </ul>			
Source: Company data, Global Climate Insights estimates				

Source: Company data, Global Climate Insights estimate

Drivers of change in emissions FY21

2021 Scope 1 and 2 Sustainable Emission Reduction was 1.6  $MtCO_2e$  vs 2020. Divestments accounted for 9.3  $MtCO_2e$  of the decrease in Scope 1 and 2 emissions. Additional drivers, repurposing the Kwinana refinery. Scope 3 reduced due to divestment and field decline.<sup>10</sup>

Key climate transition data			
	FY19A	FY20A	FY21A
Disclosed emissions (Mt CO <sub>2</sub> e)			
Scope 1 and 2	54.4	43.5	35.6
Scope 1 and 2 (equity)	51.7	45.5	39.1
Scope 3 (own production)	360.9	327.6	303.6
Scope 3 (marketed emissions <sup>11</sup> )	993	858.3	876.5
Disclosed emissions	1,408	1,231	1,216
% change (year on year)	n/a	-12.6%	-1.3%
% change - scope 1 and 2	n/a	-20%	-18.2%
% change - scope 3	n/a	-12.4%	0%
Carbon intensity disclosed (gCO <sub>2</sub> /MJ) <sup>12</sup>	79	79	79
% change (year on year)	n/a	-0.5%	+0.6%
Offsets disclosed	Offsets disclosed Not disclosed or used for emission reduction targets pre FY30		
Capital expenditure for Low carbon (orga	anic and inorganic)		
	10.401	14055	10.040

Capex (\$US m)	19,421	14,055	12,848
Low-carbon capex (\$US m)	>500	750	2,191 <sup>13</sup>
% of group capex	n/a	5.3%	17.0%

<sup>&</sup>lt;sup>10</sup> BP (2022) <u>Net Zero report</u>, p. 14.

<sup>&</sup>lt;sup>11</sup> BP has slightly amended FY19 and FY20 emissions since the release of our BP initiation report. BP has suggested the disclosed emissions are downstream emissions only and should be <u>added</u> to the scope 3 emissions from own production

<sup>&</sup>lt;sup>12</sup> Carbon intensity of marketed energy products

<sup>&</sup>lt;sup>13</sup> BP (2021) <u>ESG datasheet</u>, p. 3

Remuneration		
Percentage of incentives linked to climate transition	Remuneration tied to emission reduction targets	2021 alignment of climate transition and remuneration
<ul> <li>2022:</li> <li>Annual bonus: 15% weighting sustainable emissions reduction scope 1 &amp; 2 (excludes divestment).</li> <li>Performance shares: weak link to low carbon strategy, ~13.3%</li> </ul>	2022: Not clearly linked to emission reduction targets.	<ul> <li>Some alignment. No direct link to stated emission reduction targets.</li> <li>Annual bonus: 15% weighting sustainable emissions reduction scope 1 &amp; 2 (excludes divestment), 5.6Mt in 2021. Condition met.</li> <li>Performance shares: weak link to low carbon strategy, ~7.5%</li> </ul>

Source: Company data, Global Climate Insights estimates

Lobbying		
2021 misaligned industry associations	2022 action taken on misalignment	InfluenceMap score
<ul> <li>Released 2022 Trade association review</li> <li>Associations included: 51</li> <li>No full misalignment reported in 2022 trade association review</li> </ul>	None taken	Performance band: C-

Source: Company data, Global Climate Insights estimates

Company guidance					
Fuel	FY20A	FY21A	FY30 target	FY21-FY20 change	Progress
Renewables installed (GW)	1.5	1.9	50 <sup>14</sup>	+26.7%	Under
Power, <u>electricity traded</u> (TWh)	214	202	500	-5.6%	Under
Bioenergy production (kb/d)	30	26	100	-13.3%	Under
"Clean" hydrogen (renewables & gas with CCUS) production (Mt p.a.)	Not disclosed	Not disclosed	10% clean hydrogen market share in core markets	n/a	Under
Oil production (kboe/d)	1,229	1,091	40% reduction in oil and gas production	-11.2%	In line
Gas production (kboe/d)	1,109	1,091	(1,500 kboe/d)	-1.6%	Under
Refining throughput (kb/d)	1,627	1,594	~1,200 (-30% on FY19)	-2%	In line
Third-party oil and gas sales (kboe/d)	3,047	3,225	No target	5.9%	n/a

<sup>&</sup>lt;sup>14</sup> Developed renewables to FID



## Company transition plan: ExxonMobil Corp.

AGM date: 2

25 May 2022 Climate transition plan:

Advancing Climate Solutions 2022 progress report

SOC vote: No

Absolute emissions reduction FY30					
FY30 Targets         Implied emission reduction from absolute targets FY19-30					
Scope 1 and 2	Scope 3 own production	Scope 3 products sold	Mt CO₂e	GCI estimated emissions from sold oil and gas FY19	Implied reduction/ sold oil and gas emissions
Yes (operational)	No	No	13	1,292 Mt CO <sub>2</sub> e	1.8%

Source: Company data, Global Climate Insights estimates

Guidance on absolute emissions reduction:

Compared to 2016 an absolute reduction of scope 1 and 2 emissions of ~20% (this includes a 30% reduction in upstream scope 1 and 2 emissions)

Stated emission reduction targets					
Emissions scope	Target type	Base Year: <u>FY16</u>	FY21A	FY30 Target	FY50 Target
Operational	Absolute emissions	116 Mt CO <sub>2</sub> e	Not disclosed	93 Mt CO <sub>2</sub> e	zero implied
(scope 1 and 2)	% on base year	Not disclosed	20%	100%	
Operated agoeta Intensity		Not disclosed	Not disclosed	Not disclosed	0%
(scope 1 and 2)	% on base year	Not disclosed	20-30%	100%	

Source: Company data, Global Climate Insights estimates

## Capital expenditure

Low carbon business definition	Low-Carbon Capex FY21	Low Carbon Capex guidance	
Low Carbon Solutions - CCUS, hydrogen, biofuels	Not disclosed	In the next six years (2022-2027) investing \$15 bn on initiatives to lower greenhouse gas emissions. Note: Appears to be organic and inorganic.	

Source: Company data, Global Climate Insights estimates

# Climate strategy Primary Drivers Secondary drivers • CCUS • Hydrogen • Operational efficiency • Biofuels

Source: Company data, Global Climate Insights estimates

Drivers of change in emissions FY21

Not disclosed, 2020 emissions commentary only.



## Global Climate Insights •

Key climate transition data				
	FY19A	FY20A	FY21A	
Disclosed emissions (Mt CO <sub>2</sub> e)				
Scope 1 and 2	106	99	Not disclosed	
Scope 1 and 2 (equity)	118	111	Not disclosed	
Scope 3 (own production)	Not disclosed	650	Not disclosed	
Scope 3 (third-party sales)	Not disclosed	Not disclosed	Not disclosed	
Disclosed emissions	Not disclosed	749	Not disclosed	
% change (year on year)	Not disclosed	Not disclosed	Not disclosed	
% change - scope 1 and 2	-3.6%	-7%	Not disclosed	
% change - scope 3	Not disclosed	Not disclosed	Not disclosed	
Carbon intensity disclosed (gCO <sub>2</sub> /MJ)	Not disclosed	Not disclosed	Not disclosed	
% change (year on year)	Not disclosed	Not disclosed	Not disclosed	
Offsets disclosed	Not disclosed	Not disclosed	Not disclosed	
Capital expenditure for Low carbon				
Organic capex (\$US m)	24,361	17,282	12,076	
Low-carbon capex (\$US m)	Not disclosed	Not disclosed	Not disclosed	
% of group capex	Not disclosed	Not disclosed	Not disclosed	

Source: Company data, Global Climate Insights estimates

Remuneration	
Percentage of incentives linked to climate transition	Remuneration ti reduction target

Percentage of incentives	Remuneration tied to emission	2021 alignment of climate transition and
linked to climate transition	reduction targets	remuneration
2022 Emissions performance is considered in compensation, no weighting is disclosed.	2022 Unclear; reference but no metrics or weighting provided.	No direct link. Not transparent. Incorporated in overall compensation criteria, no weighting provided. Exxon notes its management team met its GHG emissions objectives that it set in 2020 which were not ambitious and likely impacted by COVID-19.

Lobbying		
2021 misaligned industry associations	2022 action taken on misalignment	InfluenceMap score
American Fuel and Petrochemical Manufacturers (AFPM) Independent Petroleum Association of America (IPAA)	None yet disclosed	Performance band: D-

Source: Company data, Global Climate Insights estimates

Company guidance						
Fuel	FY20A	FY21A	FY30 target	FY21-FY20 change	Progress	
Renewables installed (GW)	Not disclosed	Not disclosed <sup>15</sup>	No target	n/a	n/a	
Power delivered (TWh)	Not disclosed	Not disclosed	No target	n/a	n/a	
Bioenergy peak <u>capacity</u> (kb/d)	Not disclosed	100	200	Not disclosed	Not able to assess	
"Clean" hydrogen (renewables & gas with CCUS) production (Mt p.a.)	Not disclosed	Not disclosed, total hydrogen 1.3	Not disclosed <sup>16</sup>	Not disclosed	Not able to assess	
Oil production (kboe/d)	1,415	1,426	No target	1%	n/a	
Gas production (kboe/d)	2,349	2,289	Progressing towards 12 Mt p.a. of LNG	-3%	n/a	
Refining throughput (kb/d)	3,773	3,945	No target	5%	n/a	
Third-party oil and gas sales (kboe/d)	2,555	2,941	No target, have indicated expansion	15%	n/a	

<sup>&</sup>lt;sup>16</sup>Exxon is planning to develop 1 billion cubic feet per day of "blue" hydrogen at its proposed Baytown complex expansion.



<sup>&</sup>lt;sup>15</sup> In 2018, ExxonMobil announced two 12-year agreements with Lincoln Clean Energy for the purchase of 500 MWs of wind and solar electricity.

## Company transition plan: TotalEnergies SE

AGM date: 25 May 2022

Climate transition plan:

Sustainability and Climate report 2022

SOC vote: Yes

Absolute emissions reduction FY30							
FY30 Targets Implied emission reduction from absolute targets FY19-30							
Scope 1 and 2	Scope 3 own production	Scope 3 products sold	Mt CO₂e	GCI estimated emissions from sold oil and gas FY19	Implied reduction/ sold oil and gas emissions		
Yes (operational)	Yes	No	16 <sup>17</sup>	1,056 Mt CO <sub>2</sub> e	2.5%		

Source: Company data, Global Climate Insights estimates

Guidance on absolute emissions reduction:

TotalEnergies has set a 2030 target to reduce "global Scope 3 emissions – i.e., those from the energy products used by our customers – to below 2015 levels" <sup>18</sup>. This reflects a ~30% reduction in emissions from oil products offset by growth in LNG and marketing.

Stated emission reduction targets						
Emissions scope	Target type	Base Year: <u>FY15</u>	FY21A	FY30 Target	FY50 Target	
Operational	Absolute emissions (scope 1 and 2)	46 Mt CO <sub>2</sub> e	37 Mt CO <sub>2</sub> e	28 Mt CO <sub>2</sub> e	10 Mt CO <sub>2</sub> e	
		% on base year	-20%	-40%	-78.3%	
Own production	Absolute (scope 3) <sup>19</sup>	410 Mt CO <sub>2</sub> e	400 Mt CO <sub>2</sub> e	<400 Mt CO <sub>2</sub> e	100 Mt CO <sub>2</sub> e	
of oil and gas		% on base year	-2.5%	-2.5% (min.)	-76%	
Marketed and ( physically traded ( energy products p	Carbon intensity (lifecycle, own products)	71 g CO <sub>2</sub> e/MJ	64 g CO <sub>2</sub> e/MJ	<57 g CO <sub>2</sub> e/MJ	0	
		% on base year	-10%	-20% (min.)	-100%	

Source: Company data, Global Climate Insights estimates

Capital expenditure (organic and inorganic)					
Low carbon business definition	Low-Carbon Capex FY21	Low Carbon Capex guidance (organic and inorganic)			
Renewables and Power	25% <sup>20</sup> , \$3.3bn	2022-2025 30% (\$4.2bn) investment in Renewables, Electricity and low-carbon fuels. Of which \$100m p.a. is allocated to offsets and >\$100m to CCUS.			

<sup>&</sup>lt;sup>20</sup> Includes large acquisition of Adani Green Energy estimated at ~\$2.5bn. Estimated at ~6.5% of organic capital expenditure. In FY21 Total spent in FY21 it spent \$100m on CCUS and \$100m on offsets.



<sup>&</sup>lt;sup>17</sup> ~16 Mt decrease in scope 1 & 2 (adjusted for COVID-19).

<sup>&</sup>lt;sup>18</sup> TotalEnergies (2022) Sustainability & Climate 2022 Progress Report, p. 39

<sup>&</sup>lt;sup>19</sup> We have excluded this target from our charts and analysis given there is no quantifiable emissions reduction between FY21 and FY30. This includes sub-aspirations of: 1) 30% reduction in scope 3 from oil products from 2015 to 2030 (350 Mt 2015) and a 30% reduction from European scope 1,2, 3 (mostly oil products, 256 Mt in 2015). Stated numbers exclude impact from COVID-19 as disclosed.

Climate strategy	
Primary Drivers	Secondary drivers
<ul> <li>Growth in gas production and sales</li> <li>Decline in oil sales</li> <li>Renewables capacity (100 GW by 2030)</li> </ul>	<ul> <li>CCUS <u>capacity</u> (&gt;10 Mt p.a. by 2030)</li> <li>Offsets 5-10Mt p.a. by 2030</li> <li>Biofuels production 5Mt p.a. by 2030</li> </ul>

Source: Company data, Global Climate Insights estimates

Drivers of change in emissions FY21

"Scope 1+2 emissions decreased from 41.5 Mt in 2020 to 37.0 Mt (excluding the impact of COVID)", assisted by "divestment of the Lindsey refinery in the United Kingdom and the cessation of operations of Grandpuits in France".<sup>21</sup>

Key climate transition data <sup>22</sup>						
	FY19A	FY20A	FY21A			
Disclosed emissions (Mt CO <sub>2</sub> e)						
Scope 1 and 2 (operational)	44	41	37			
Scope 1 and 2 (equity)	Not disclosed	Not disclosed	54			
Scope 3 (own production)	410	400	400			
Scope 3 (third-party sales)	Not disclosed	Not disclosed	Not disclosed			
Disclosed emissions	454	441	437			
% change (year on year)	Not disclosed	-3%	-1%			
% change - scope 1 and 2	Not disclosed	-7%	-10%			
% change - scope 3	Not disclosed	-2.5%	0%			
Carbon intensity disclosed (gCO <sub>2</sub> /MJ) own production <u>only</u>	67	65	64			
% change (year on year)	Not disclosed	-2%	-2%			
Offsets disclosed	Not disclosed	Not disclosed	7 Mt carbon credits			
Capital expenditure for low carbon	- organic only					
Organic capex (\$USm)	13,397	10,339	12,675			
Low-carbon capex (\$USm)	Not disclosed	Not disclosed	Est. 827			

Source: Company data, Global Climate Insights estimates

Not disclosed

% of group capex

Est. 6.5%

Not disclosed

<sup>&</sup>lt;sup>21</sup> TotalEnergies (2022) <u>Sustainability & Climate 2022 Progress Report</u>, p. 31

<sup>&</sup>lt;sup>22</sup> Numbers in table reflect emissions adjusted for impact of COVID-19 in FY20 and FY21

Remuneration								
Percentage of incentives linked to climate transition	Remuneration tied to emission reduction targets	2021 alignment of climate transition and remuneration						
<ul> <li>2022</li> <li>STI: 10%</li> <li>LTI: 30%, including: 1) 15% scope 1 &amp; 2<sup>23</sup>, not ambitious. 2) 15% scope 3.</li> </ul>	2022 • STI: 10% • LTI: 30%	<ul> <li>Some alignment. Not ambitious.</li> <li>STI: 10% weighting, for reducing scope 1 and 2 to 42.4 Mt CO<sub>2</sub>e in FY21 - Met.</li> <li>LTI: 30% weighting emission reduction targets (Scope 1, 2, 3). Scope 3 target was -12% reduction on FY15.</li> </ul>						

Source: Company data, Global Climate Insights estimates

Lobbying		
2020 misaligned industry associations	2022 action taken on misalignment	InfluenceMap score
American Petroleum Institute (API) Texas Oil & Gas Association	Exited the following:. API (2021), Canadian Association of Petroleum Producers (2020), American Fuel & Petrochemical Manufacturers (2019).	Performance band: C-

Source: Company data, Global Climate Insights estimates

#### Company guidance

TotalEnergies is targeting a 2030 energy mix of sales that is 50% gas, 30% petroleum products, 15% majority renewable electricity and 5% biomass and hydrogen.

Fuel	FY20A	FY21A	FY30 target	FY21-FY20 change	Direction
Renewables installed (GW)	7	10	100	+43%	In line
Power <u>generated</u> (TWh)	14	21	±120 20 x more electricity on FY15	+50%	In line
Bioenergy - biofuel production Bioenergy - sales (Mt p.a.)	<0.5 <3	0.5 3	5 ~15	0%	Under
"Clean" hydrogen (renewables & gas with CCUS) production	n/a	n/a	No target.	n/a	n/a
Oil production (kboe/d) Oil sales (kboe/d) - own products	1,543 1,478	1,500 1,502	Oil production peaking this decade, decreasing to ~1.4 Mboe/d in 2030. Sale of own oil -30% from 2015 to ~1.4Mboe/d	-2.8% +1.6%	In line
Gas production (kboe/d) LNG sales (Mt p.a.) <sup>24</sup>	1,328 38.3	1,319 42	Increase gas production by 50% on FY15 from 1.3 to 2Mboe/d. Double sales of LNG over the 2019-2030 period to ~69 Mt p.a.	-0.7% +9.7%	Under/ In line
Refining throughput (kb/d)	1,292	1,180	No target.	-8.7%	n/a
Third-party oil and gas sales <sup>25</sup> (kboe/d)	1,932	2,079	No target. Unclear if included in oil sales target.	+7.6%	n/a

 $<sup>^{23}</sup>$  41.8 Mt CO\_2e for 2022 and 41.2 Mt CO\_2e for 2023  $^{24}$  Incl 3rd party LNG sales

<sup>&</sup>lt;sup>25</sup> Estimated from company disclosure, including trading and bulk sales

11 May 2022

## Company transition plan: Equinor ASA

AGM date:

Climate transition plan:

Energy transition plan

SOC vote: Yes

Absolute emissions reduction FY30						
FY30 Targets         Implied emission reduction from absolute targets FY19-30						
Scope 1 and 2         Scope 3 own production         Scope 3 products sold			Mt CO <sub>2</sub> e	GCI estimated emissions from sold oil and gas FY19	Implied reduction/ sold oil and gas emissions	
Yes (operational)	No	No	6.6	572 Mt CO <sub>2</sub> e	1.2%	

Source: Company data, Global Climate Insights estimates

Guidance on absolute emissions reduction:

Halving operated <u>scope 1+2</u> greenhouse gas emissions by FY30 relative to FY15 levels with 90% of the cuts coming from absolute reductions.

Stated emission reduction targets							
Emissions scope	Target type	Base Year: FY15	FY21A	FY30 Target	FY50 Target		
Operational Absolute (scope 1 and 2) <sup>26</sup>	14.9 Mt CO <sub>2</sub> e	12.1 Mt CO <sub>2</sub> e	8.3 Mt CO <sub>2</sub> e	n/a			
	and 2) <sup>20</sup>	% on base year	-27%	-50%	n/a		
Oil and gas Carbon inte (scope 1,2,5	Carbon intensity	68 gCO <sub>2</sub> e/MJ <u>(FY19</u> )	67 gCO <sub>2</sub> e/MJ	54 gCO <sub>2</sub> e/MJ	0 gCO <sub>2</sub> e/MJ		
	(scope 1,2,3) <sup>27</sup>	% on base year ( <u>FY19</u> )	-1%	-20%	-100%		

Source: Company data, Global Climate Insights estimates

Capital expenditure (organic only)			
Low carbon business definition	Low-Carbon Capex FY21	Low Carbon Capex guidance	
Renewables, hydrogen, CCUS	11%	>50% annual gross capex to renewables and low carbon solutions by 2030	

Source: Company data, Global Climate Insights estimates

#### Climate strategy

Pri	mary Drivers	Secondary drivers
•	Electrification of offshore assets with renewables Renewable energy generation Divestments	<ul><li>Power (gas with CCUS, hydrogen)</li><li>Provider of CCUS capacity</li></ul>

<sup>&</sup>lt;sup>27</sup> Net carbon intensity, <u>defined</u> as: *GHG emissions associated with the production and use of energy produced by Equinor, including negative emissions related to carbon services and offsets, divided by the amount of energy produced by the company.* 



<sup>&</sup>lt;sup>26</sup> Equinor uses a FY15 baseline for its scope 1&2 absolute emission reduction target. Its FY30 target is -50% on a 2015 baseline (-44% on a 2019 baseline). 90% of the cuts coming from absolute reductions

Drivers of change in emissions FY21

Divestments, increased production and temporary shutdowns. Divestments included Bakken and Austin chalk (US), Terra Nova (Canada) and Bajo del Toro Este/Aguila More Noreste (Argentina).

Key climate transition data			
	FY19A	FY20A	FY21A
Disclosed emissions (Mt CO <sub>2</sub> e)			
Scope 1 and 2	14.9	13.6	12.1
Scope 1 and 2 (equity)	Not disclosed	Not disclosed	Not disclosed
Scope 3 (own production)	247	250	249
Scope 3 (third-party sales)	Not disclosed	Not disclosed	Not disclosed
Disclosed emissions	262	264	261
% change (year on year)	Not disclosed	+0.6%	-0.9%
% change - scope 1 and 2	Not disclosed	-8.7%	-11.0%
% change - scope 3	Not disclosed	+1.2%	-0.4%
Carbon intensity disclosed (gCO <sub>2</sub> /MJ) own production <u>only</u>	68	68	67
% change (year on year)	Not disclosed	0%	-1.5%
Offsets disclosed	Not disclosed. Not using for emissions reduction targets		
Capital expenditure for Low carbon - <u>organic only</u>			
Organic capex (\$US m)	10,204	8,476	8,040
Low-carbon capex (\$US m)	175	Est. 339	Est. 885.5
% of group capex	1.2	4	11

Source: Company data, Global Climate Insights estimates

Remuneration			
Percentage of incentives linked to climate transition	Remuneration tied to emission reduction targets	2021 alignment of climate transition and remuneration	
No disclosure	None KPI for CEO: $CO_2$ intensity for the upstream portfolio: 8.1 kg $CO_2$ /boe or better.	No disclosure. <b>This is a material</b> governance gap.	

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Lobbying		
2021 misaligned industry associations	2022 action taken on misalignment	InfluenceMap score
No material misalignments. American Petroleum Institute no longer considered misaligned post new climate policy.	Exited Australian Petroleum Production & Exploration Association (APPEA) (2021)	Performance band: C-

Source: Company data, Global Climate Insights estimates

Company guidance					
Fuel	FY20A	FY21A	FY30 target	FY21-FY20 change	Progress
Renewables installed (GW)	0.6	0.7	12 to 16 installed	+16.7%	under
Power production (TWh)	1.66	1.56	No target	-6.0%	n/a
Bioenergy - biofuel sales (Mt p.a.)	Not disclosed	Not disclosed	No target	n/a	n/a
"Clean" hydrogen (renewables & gas with CCUS) production	Not disclosed	Not disclosed	10% of European market in 2035	n/a	under
Oil production (kboe/d)	1,120	1,076	Rising to FY26, back to current levels by FY30 Increasing production	-3.9%	In line
Gas production (kboe/d)	950	1,003	towards 2026, decreasing to 2021 production level in 2030	+5.6%	In line
Refining throughput (kb/d) <sup>28</sup>	333	366	No target	+10%	n/a
Third-party oil and gas sales (kboe/d) <sup>29</sup>	2036	2016	No target	-1%	n/a

 <sup>&</sup>lt;sup>28</sup> Converted from million tonnes to kb/d
 <sup>29</sup> Includes oil and gas sales from 3rd party and state owned assets (SDFI), p.80 Annual report 2021

## Appendix

## Definitions

The key terms we use in this report are listed in the table below.

Term	Meaning
Financial	
Free cash flow	Operational cash flow less investing cash flow.
Organic capital expenditure	Investment in new equipment and long-term assets, as disclosed under capital expenditure in a company cash flow statement. Accounting treatment differs by company.
Organic and inorganic capital expenditure	Organic capital expenditure and investments in external entities including minority investments and acquisitions.
External definitions	
InfluenceMap organisation score	Performance Band (A+ to F) is a full measure of a company's climate policy engagement, accounting for both its own engagement and that of its industry associations. For companies, the 'Organisation Score' and 'Relationship Score' are combined to result in a total score that places the company in a Performance Band. (see <u>InfluenceMap</u> for more details)
Climate	
SOC vote	Say on Climate Vote is an annual, non-binding vote on a climate report issued by the company. Some companies covered in this report have used this style of mechanism but have not committed to an annual vote.
Total GHG emissions	In our analysis we use this term to refer to the total absolute greenhouse gas (GHG) emissions from products a company sells. We believe this provides a more holistic picture of the GHG emissions of a business, and is the best way for investors to understand how a company is tracking in its transition away from hydrocarbons.
Absolute GHG emissions	Absolute GHG emissions are the total amount of emissions being released into the atmosphere For climate change to slow down, an absolute emissions reduction target is needed. It is also the more effective measure of the climate impact of emissions reduction, in comparison to an intensity reduction.

Net GHG emissions	Net emissions are a company's emissions footprint after accounting for post-emissions compensation. These are not necessarily 'negative emissions', as envisaged by the IPCC illustrative mitigation scenarios. Corporations should aim to thrive in a zero emissions economy, rather than 'net zero' in any particular year.
Post-emission compensation technology	Carbon offsets and carbon capture and storage (CCUS) are both post-emission compensation measures. We consider both in our assessment of company targets but separately from the measures that reduce emissions from being released in the first instance.
Net Carbon Intensity	A metric used by Shell to track emissions from its energy products, it is the average amount of greenhouse gas emissions produced for each unit of energy that Shell sells. It is net as it accounts for post-emissions compensation including CCUS and carbon offsets.
Metrics and denominations	
\$	All financial values unless specified are denominated in US\$
b boe/d, boed gCO <sub>2</sub> /MJ GW kb kboe m Mboe Mt TWh	Billion barrels of oil equivalent per day Grams CO2 per million joules Gigawatt Thousand barrels Thousand barrels of oil equivalent Million Million barrels of oil equivalent Million tonnes Terawatt hours



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