

# How does Shell's climate plan stack up against Paris goals?

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In 2020, Shell announced its climate transition strategy "[Powering Progress](#)". Despite [stating](#) that "we firmly believe our climate targets are aligned with the more ambitious goal of the UN Paris Agreement on climate change - to limit the increase in the average global temperature to 1.5°C above pre-industrial level", Shell is [appealing](#) the Dutch District Court ruling ordering the company to reduce absolute emissions by 45% by 2030 (compared to 2019 levels).

## Shell's climate targets will lead to an increase in emissions

**Shell's current emissions targets are not aligned with the Dutch Court order** of reducing absolute emissions by 45% by 2030. Its absolute emissions target only accounts for 5% of its total emissions (68 MtCO<sub>2e</sub> compared to 1,367 MtCO<sub>2e</sub>). Shell's plan to reduce its scope 1 and 2 absolute emissions by 50% by 2030 would translate to just a ~3% (~41.5 MtCO<sub>2e</sub>) absolute emissions decrease (see table 1 below for materiality assessment). Shell has no absolute emissions reduction commitment for the vast majority of the emissions from the products it sells, which account for 85% of its total emissions footprint. Indeed the cumulative impact of its current plan is estimated to [exhaust 8.6%](#) of the remaining global carbon budget for limiting warming to 1.5°C.

Shell's emissions intensity targets are also [not aligned](#) with a 1.5°C future, according to the Transition Pathway Initiative, which found that both Shell's 2025 and 2030 intensity targets will lead to a temperature increase of more than 2°C by the end of the century. In absolute terms, Shell's intensity targets could lead to an increase in absolute emissions (if you produce more fossil fuels, overall emissions can rise even if each unit emits less), which have been projected to increase by [12%](#) between 2019 and 2030.

A core part of Shell's climate strategy is to grow its gas business, which currently accounts for [43%](#) of its total energy sold (similar to oil, at 45%). It plans to increase the share of gas in its fossil fuel production to 55% or more by 2030. Emissions from Shell's growth plans for LNG and gas are likely to offset any decline in its oil production. In fact, research by Global Carbon Insights estimates that continued expansion in natural gas and LNG production will increase absolute emissions by [276 Mt CO<sub>2e</sub>](#), exceeding the decline in oil by 207 MtCO<sub>2e</sub>.

## Shell invests far more in fossil fuels than in clean energy

**Shell's exploration and investment plans are also inconsistent with limiting warming to 1.5°C.** Both IPCC and IEA recommendations state that, to stay within a 1.5°C temperature rise, there can be no new fossil fuel investments and infrastructure. Latest research goes beyond the recommendations of the IEA and estimates that [40% of developed fossil fuel reserves](#) need to stay in the ground to limit warming to 1.5°C.

Contrary to the science, Shell has no plans to stop frontier exploration until 2025 and will continue to invest heavily on fossil fuels beyond this date. In 2021, Shell spent [USD 2.4 billion](#) (~12% of its USD 20 billion cash capex) in growing its Renewable and Energy Solutions business, which equates to [6%](#) of its total free cash flow. Shell defines its Renewables and Energy Solutions business to include investments in selling gas and power, electric charging, hydrogen, carbon capture and storage and carbon offsets.<sup>1</sup> The inclusion of gas sales, hydrogen (both gas and renewable energy), carbon capture and offsets makes it difficult to assess the credibility of its investment targets in this segment. In comparison, it spent USD 6 billion (~30% of capex) on Upstream Exploration and USD 9 billion (~45% of capex) on its Integrated Gas and Chemicals businesses. Together, it spent six times more of its free cash flow (37.5%) on growing its traditional fossil fuel business, than its renewables segment.

<sup>1</sup> See [Strategic Report](#) (2021), Shell, page 49.

In 2022, it plans to spend ~70% ([\\$16 billion](#)) of its capex on Upstream Exploration, Integrated Gas and Chemicals businesses. By 2025-2030, the majority of Shell's expenditure (55%-65% including capex and opex) will remain focused on expanding its fossil fuel businesses (Upstream Exploration, Integrated Gas and Chemicals). The ongoing investment in fossil fuel infrastructure in the next eight years contradicts both the IEA's and IPCC's findings that there can be no new investment in fossil fuel assets.

**Table 1: Assessment of Shell's targets and their materiality**

Emissions reduction targets		Near term targets	Materiality
Absolute emissions	Scope 1 and 2	-50% reduction by 2030, compared to 2016 on a net basis	5% of total absolute emissions 2021
	Scope 3 (own production)	None	28% of total absolute emissions 2021
	Scope 3 (products sold)	None	57% of total absolute emissions 2021
Emissions intensity	Scope 1, 2 and 3	- 6%-8% reduction by 2023 on a net basis - 20% reduction by 2030 on a net basis	Absolute emissions is forecast to increase despite emissions intensity decreasing by 2030 <sup>2</sup>
Supply		Near term targets	Materiality
Oil production		An average of 1%-2% reduction per year to 2030	45% of total energy products 2021
Gas production		Share of gas to increase to 55% or more of fossil fuel production	25% of total energy products 2021
LNG production		7 Mt per annum of new LNG capacity	18% of total energy products 2021
Frontier exploration		No new entries post 2025	
Investments		Near term targets	Materiality
Cash capital expenditure	Renewables and energy solutions	USD 3 billion in 2022, no guidance on 2025-2030 that separates Renewables from Marketing	13% of capex (2022 outlook)
	Upstream Exploration, Integrated Gas, Chemicals	USD 16 billion in 2022, 50%-55% by 2025-2030	70% of capex (2022 outlook), capex and opex together expected to be 55%-65% of total expenditure from 2025-2030
Operating expenses	Renewables and energy solutions	No guidance that separates Renewables from Marketing	
	Upstream Exploration, Integrated Gas, Chemicals	55%-65% by 2025-2030 of opex	Capex and opex together expected to be 55%-65% of total expenditure from 2025-2030
Post emissions compensation		Near term targets	Materiality
Carbon capture and storage		25 MtCO <sub>2</sub> per year by 2035	Post-emissions compensation equate to ~10% of absolute emissions reduction (assuming stable until 2030)
Nature based offsets		Nature-based solutions sales of 120 MtCO <sub>2</sub> per year by 2030	

Source: Company data<sup>3</sup>, research unit analysis.

<sup>2</sup> See [Shell Initiation of Coverage](#), Global Climate Insights, page 18.

<sup>3</sup> [Energy transition progress report](#) (2021), Shell, p13. [Sustainability report](#) (2020), Shell. [Sustainability report Greenhouse gas and energy data](#) (2021), Shell.