

## **ESG DAY 2023**

Is Repsol aligned with a 1.5°C pathway?

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# 01.

" As we said yesterday...."







"As we said yesterday...": How to assess the climate credentials of energy companies? (ESG Day 2022)

### Next steps to improve Repsol's framework (as of October 22)



Keep our core net zero 2050 CII reduction pathway with Scope 3 based on primary energy as a firm target under any macro scenario.



Disclose two additional carbon intensity reduction pathways with Scope 3 based on sales (end-user sales and total sales net of merely traded products).



Disclosure of the financial impact on Repsol of different long-term scenarios (including 1.5°C scenarios), as recommended by TCFD.



Continued proactive participation in metric standardization initiatives.

Continued engagement and transparent reporting of Repsol's climate framework, while facilitating application of any other stakeholders' frameworks.



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## 02. Metrics The endless debate









## Metrics: the endless debate

## Science-based metrics? the case of scope 3 emissions





- Scope 3 based on products obtained from own oil & gas production: a firm target under any scenario
  - Strategic decision, capex-intensive with long-term return, risk of stranded assets
- Scope 3 based on downstream sales: projections anchored in IEA SDS and NZE macro scenarios
  - Commercial decision, capex-light activity, driven by adaptation to demand
  - Avoid multiple counting: sales to end-users, or at least total sales net of merely traded products





## 02 Metrics: the endless debate

### Cll reduction pathways w/ scope 3 based on sales





## Metrics: the endless debate

## Scope 4 emissions: avoided emissions

Decarbonization metrics to be fit-for-purpose, representing the actual impact on emissions, e.g.:

- A new CCGT that displace coal power would reduce emissions
- A new wind farm that displace nuclear would not reduce emissions
- A new wind farm that serves incremental power demand would reduce carbon intensity of energy supply



Nuclear power avoids more  $CO_2$  emissions per GW of capacity than other fuels.

Notes: Mt  $CO_2$  = million tonnes of carbon dioxide. Efficient gas refers to combined-cycle gas turbines. Applied capacity factors are current global fleet averages for nuclear power, hydro and efficient gas, and global averages for new projects completed in 2019 for wind offshore, wind onshore and solar PV.

 Impact of scope 4 renewable power contribution in Repsol decarbonization path (CII reduction):

	2025	2030	2040	2050
CII reduction contribution (p.p.)	<2%	5-7%	9-11%	13-16%

 Repsol's methodological approach only considers avoided emissions in regions and years in where more carbon-intensive energy is displaced (as per IEA scenario projections)





# **03** Decarbonization scenarios

Hydrogen

Is Repsol following the right path?





## **03** Is Repsol aligned with a 1.5°C pathway?

## IPCC 1.5°C scenarios vs IEA NZE and Repsol path

The Sixth Assessment Report (AR6) of the Intergovernmental Panel on Climate Change (IPCC), published in 2022, reports more than 200 scenarios consistent with a temperature increase limited to 1.5°C. in 2100, of which 28\* achieve emissions neutrality by 2050 and the rest later.

#### Carbon Intensity (g CO<sub>2</sub>e/MJ)



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**03** Is Repsol aligned with a 1.5℃ pathway?

## O&G production reduction for selected IPCC 1.5°C scenarios\* vs Repsol path\*\*



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# 04.

## Net Zero Scope 1+2 A new target







## **Net Zero Scope 1+2: a new target**

Repsol's new target: net zero scope 1+2\* by 2050



In support of COP28 for a collective O&G sector engagement

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Repsol Scope 1+2 CO<sub>2</sub>e emissions (Mton/yr)\*





## 05.

Financial disclosure of climate change risks in line with TCFD recommendations







■ Financial disclosure of climate change risks in line with TCFD recommendations

### **Disclosing financial risks as per TCFD recommendations**



Disclosure of estimates and accounting judgments in Repsol's financial statements related to climate change, decarbonization and energy transition risks



Disclosure of asset impairment sensitivity to commodity prices as per IEA NZE scenario



Disclosure of Risks and Opportunities in nonfinancial disclosing (climate change and energy transition section of Consolidated Management Report 2022)



Net present value (NPV) impact of different O&G demand scenarios according to IEA APS, SDS and NZE, and NPV impact of O&G prices



(Integrated Management Report 2022)





## **06.** Natural capital *A new dimension*







## ■ Natural capital: a new dimension



"We cannot address biodiversity loss without tackling climate change, but it is equally impossible to tackle climate change without addressing biodiversity loss" (European Commission's President)

#### COP 15 on Biodiversity (Montreal-Kuming):

- Vision: "Living in harmony with nature by 2050"
- Target: Nature positive by 2030

**TNFD initiative** on-going, mirroring TCFD methodology (Governance, Strategy, Risks & Opportunities, Metrics & Objectives)

#### Reads ()



#### Natural capital valuation

- Repsol methodology for economic valuation and management of impacts on natural capital
- Recognized by relevant institutions (\*)
- Methodology <u>made public</u> and commercial digital tool co-developed with Minsait (more info: repsolsma@repsol.com)
- Applied in Repsol's assets and projects

#### Water

Repsol's Roadmap to 2050 developed:

- Industrial sites: Zero freshwater withdrawal in 2050, with an interim target of 30% reduction by 2035
- Unconventional E&P assets: commitment setting on-going



Repsol's commitment: not undertake operational activities within the boundaries of the UNESCO World Heritage List (Cultural, Natural and mixed sites), as listed Jan.1st, 2023

(\*) Reviewed and endorsed by the UNEP-WCMC (UN Environment Programme World Conservation Monitoring Center) and The Capitals Coalition. Recognized as a relevant methodology by the Transparent Project and as a best practice for biodiversity valuation by the EU Business@Biodiversity Platform within the Align Project.





#### COMMITTED TO CONTINUE ENGAGEMENT AND TRANSPARENT DISCLOSURE

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## THANK YOU ESG DAY 2023

