

Agent Conversation History

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1. What are the Scope-1 emissions of Hindustan Petroleum Corporation Limited (HPCL) as per their latest XBRL Datasheets or Sustainability Report?

Worker speaking:

The Scope-1 emissions of Hindustan Petroleum Corporation Limited (HPCL) for the financial year 2023-24 are detailed in their Sustainability Report. Below is the breakdown:

- **Total Scope-1 Emissions:** 4,717,522 tCO₂e in FY24, compared to 4,304,201 tCO₂e in FY23 [doc3].
- **Break-up of Scope-1 Emissions:**
- **Carbon Dioxide (CO₂):** 4,659,121 tCO₂e in FY24, compared to 4,266,795 tCO₂e in FY23 [doc3].
- **Methane (CH₄):** 40,803 tCO₂e in FY24, compared to 31,489 tCO₂e in FY23 [doc3].
- **Nitrous Oxide (N₂O):** 6,264 tCO₂e in FY24, compared to 5,917 tCO₂e in FY23 .
- **Sulfur Hexafluoride (SF₆):** 11,333 tCO₂e reported for FY24, which was not reported in FY23 [doc3].
- **Biogenic Emissions:** Recorded as 0.00014 million tCO₂e under Scope-1 for FY24 [doc3].

This comprehensive account demonstrates HPCL's monitoring and reporting of direct emissions (Scope-1) across its operations.

2. What are the Scope-1 emissions of Indian Oil Corporation Limited (IOCL) as per their latest XBRL Datasheets or Sustainability Report?

Worker speaking:

The Scope-1 emissions for Indian Oil Corporation Limited (IOCL) are detailed as follows:

- **Total Scope-1 emissions** for FY 2023-24 amount to **22.00 MMTCO₂e**. This includes the breakdown of greenhouse gases as follows:
- **CO₂:** 21.69 MMTCO₂e
- **CH₄:** 0.10 MMTCO₂e
- **N₂O:** 0.21 MMTCO₂e [doc3].

In comparison:

- **Total Scope-1 emissions** for FY 2022-23 were **20.21 MMTCO₂e**, with the following breakdown:
- **CO₂:** 19.91 MMTCO₂e
- **CH₄:** 0.10 MMTCO₂e
- **N₂O:** 0.20 MMTCO₂e [doc3].

Additionally, the emission factors used for calculating Scope-1 emissions in FY 2023-24 were updated based on the latest available data from **IPCC, DEFRA, and US EPA** [doc3].

Independent assessment/evaluation/assurance of these figures was carried out by **TUV India Private Limited** [doc3].

3. Do the Sustainability Reports or BRSR of either HPCL or IOCL provide additional context, such as measures undertaken for reducing Scope-1 emissions, which may indicate better practices by one company over the other?

worker speaking

The retrieved documents provide detailed insights into HPCL's Business Responsibility and Sustainability Report (BRSR) regarding measures undertaken for reducing Scope 1 emissions. Below is a structured summary of the findings:

HPCL's Measures for Reducing Scope 1 Emissions

- **Policy and Responsibility:**

- HPCL, being part of the Oil & Gas sector, acknowledges its responsibility to address climate change and its impacts. The company's sustainable development policy emphasizes the measurement and mitigation of carbon footprints. It includes a requirement to "continuously monitor and control our activities to minimize carbon footprint" [doc1].

- **Energy Efficiency:**

- HPCL focuses on enhancing energy efficiencies in its operations as a key strategy for reducing emissions [doc1].

- **Fuel Transportation and Fleet Optimization:**

- The company has adopted environmentally friendly modes of fuel transportation and optimized fleet utilization to reduce emissions [doc1].

- **Biofuels and Green Cover:**

- HPCL is implementing biofuels and increasing green cover in and around its refineries and locations as part of its carbon footprint reduction initiatives [doc1].

- **Investment in Low-Carbon Technologies:**

- The company is investing in cutting-edge low-carbon technologies to mitigate its greenhouse gas emissions [doc1].

Independent Assurance

- HPCL's BRSR disclosures have been assessed and assured by Bureau Veritas (India) Private Limited, which provides reasonable independent assurance for the sustainability of its non-financial disclosures, including emissions data and mitigation strategies [doc2], [doc4].

Quantitative Data on Emissions

- **Scope 1 and Scope 2 Emissions Intensity:**

- The total Scope 1 and Scope 2 emissions intensity (in terms of emissions per refinery throughput) for HPCL's Mumbai and Visakh refineries are reported as:

- FY 2023-24: 0.259 tCO₂e/MT

- FY 2022-23: 0.266 tCO₂e/MT

- This slight reduction in emissions intensity indicates progress in emissions management [doc1].

Missing Information for IOCL

- The retrieved documents do not provide any information about IOCL's sustainability or BRSR reports. As such, a direct comparison of practices and measures between HPCL and IOCL is not possible based on the available data.

Conclusion

- HPCL demonstrates a comprehensive approach to reducing Scope 1 emissions through policy commitments, operational efficiencies, and investments in low-carbon technologies. However, without data from IOCL, it is impossible to determine whether HPCL's measures represent better practices compared to IOCL.

If additional information about IOCL's sustainability practices becomes available, a more informed comparison can be made.