



**Hindustan Platinum**

# **Hindustan Platinum Group Consolidated Emissions**

**GHG Emissions – Scope 1 & 2**

**Energy Consumption & Generation**

**FY 2023-24**



# About Hindustan Platinum

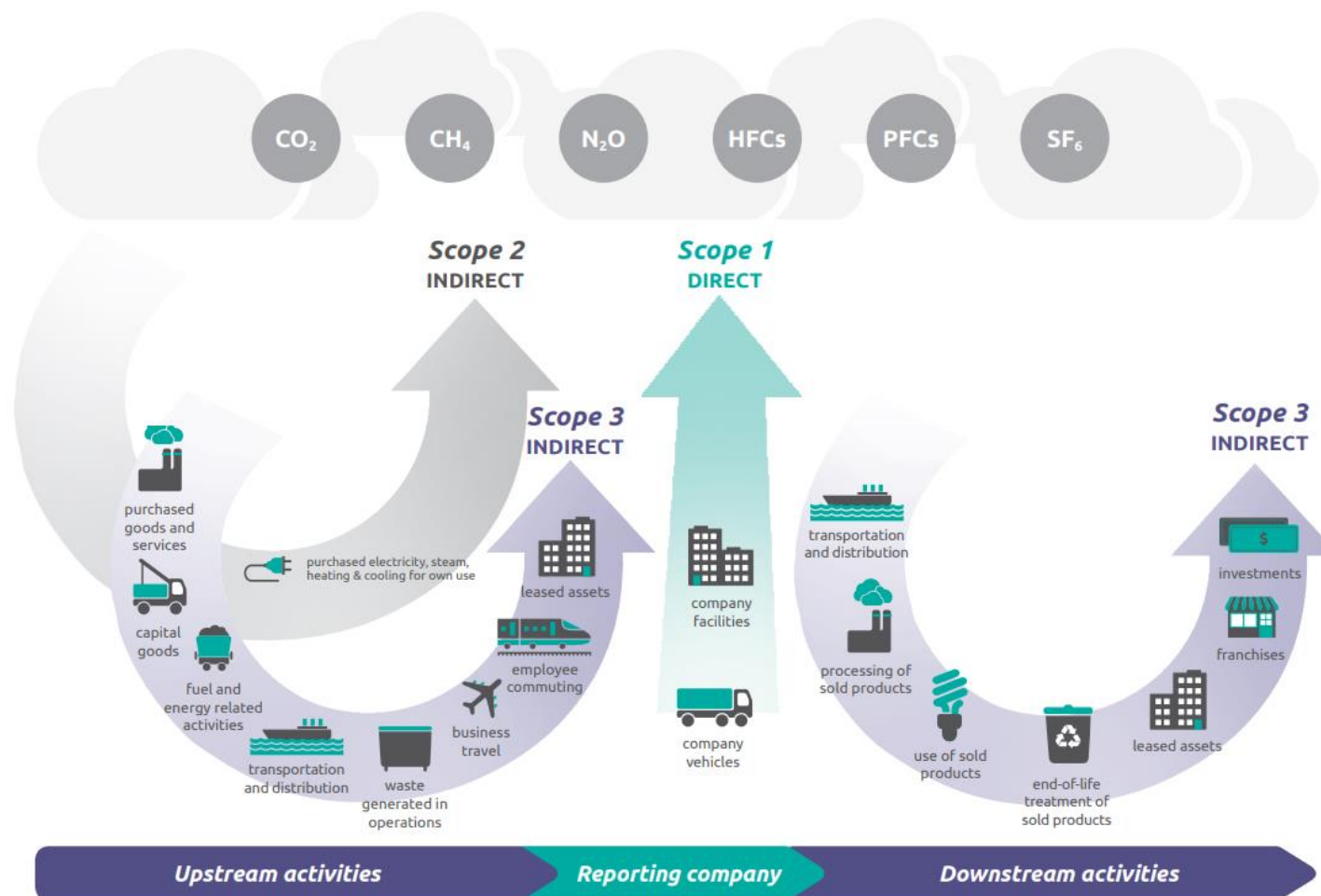


- Hindustan Platinum was established in 1961, with the ambition to become a leading manufacturer and refiner of precious metal products. Today, nearly six decades later, we are creating an indelible mark on the world of precious metals, through a focus on continuously evolving cutting-edge technologies to provide the right solutions to our customers.
- Today, Hindustan Platinum has an established customer base in over 50 countries across 5 continents. Supporting its global footprint are two subsidiaries – Hindustan Platinum DMCC, UAE and Hindustan Platinum P.R. LLC, Puerto Rico.
- Over nearly six decades of operations, Hindustan Platinum has grown from strength to strength. Today, our team of over 950 professionals is firmly dedicated to excellence and technological advancement in order to create value for our customers.

# GHG inventORIZATION report

- Greenhouse Gases Inventory Report (GHG Inventory Report):
  - This report has been prepared in accordance with WRI/WBCSD's Greenhouse Gas Protocol's Corporate Accounting and Reporting Standards for quantifying corporate GHG emissions ("GHG Protocol") It includes the information required by the GHG Protocol for public reporting
  - Operational control approach was used, which means HP has the full authority to introduce and implement its operating policies at the operation. The sites covered are:
    1. Hindustan Platinum (Plant) TTC MIDC
    2. Hindustan Platinum (CO) Wadala
    3. Hindustan Platinum Puerto Rico
- Coverage:
  - Scope 1 – Stationary fuel consumption, Mobile Fuel consumption & Fugitive emissions
  - Scope 2 – Purchased Electricity
  - Energy Consumption & Generation of Hindustan Platinum
- Reporting Period:
  - GHG emissions in the financial year 2023/24 are reported (01-Apr-2023 to 31-Mar-2024)
  - The data for financial years 2019/20, 2020/21, 2021/22, 2022/23 are also calculated for comparison.

# GHG Emission Overview



Source: Greenhouse Gas Protocol - Corporate Value Chain (Scope 3) Accounting and Reporting Standard  
([https://ghgprotocol.org/sites/default/files/standards/Corporate-Value-Chain-Accounting-Reporting-Standard\\_041613\\_2.pdf](https://ghgprotocol.org/sites/default/files/standards/Corporate-Value-Chain-Accounting-Reporting-Standard_041613_2.pdf))

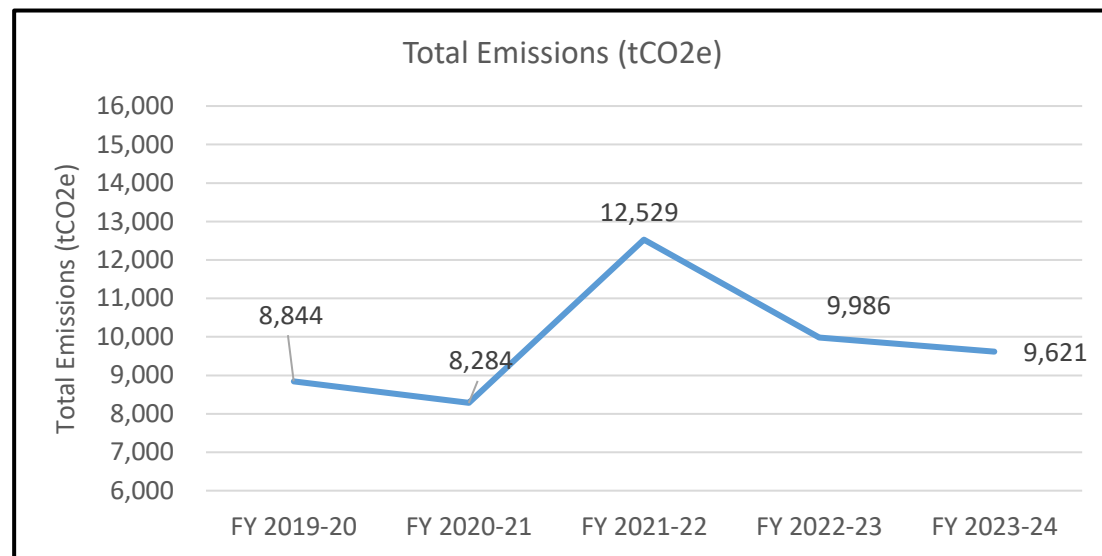
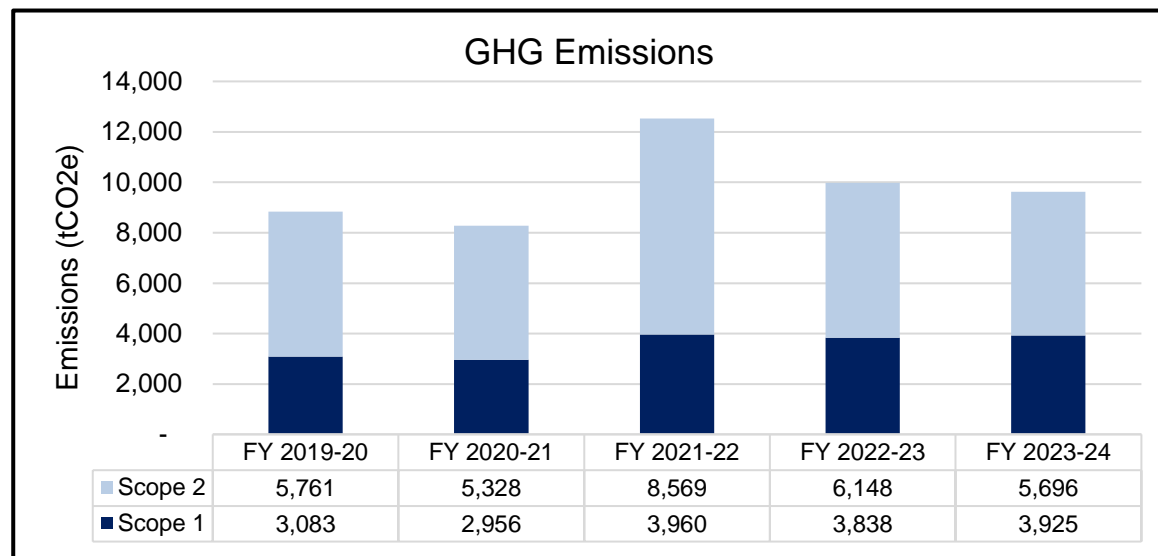
# GHG Emissions

		<u>FY 2019-20</u>	<u>FY 2020-21</u>	<u>FY 2021-22</u>	<u>FY 2022-23</u>	<u>FY 2023-24</u>
Scope	Category	Emissions (tCO <sub>2</sub> e)	Emissions (tCO <sub>2</sub> e)	Emissions (tCO <sub>2</sub> e)	Emissions (tCO <sub>2</sub> e)	Emissions (tCO <sub>2</sub> e)
Scope 1	Stationery Fuel emissions	3,073	2,939	3,895	3,721	3,804
Scope 1	Mobile Fuel emissions	9	16	19	14	19
Scope 1	Fugitive Emissions	1	0	46	103	101
	<b>Total Scope 1 Emissions</b>	<b>3,083</b>	<b>2,956</b>	<b>3,960</b>	<b>3,838</b>	<b>3,925</b>
Scope 2	Purchased electricity	5,761	5,328	8,569	6,148	5,696
	<b>Total Scope 2 Emissions</b>	<b>5,761</b>	<b>5,328</b>	<b>8,569</b>	<b>6,148</b>	<b>5,696</b>
<b>Total Emissions (Scope 1 + Scope 2) in tCO<sub>2</sub>e</b>		<b>8,844</b>	<b>8,284</b>	<b>12,529</b>	<b>9,986</b>	<b>9,621</b>
Sites Covered		HP Navi Mumbai	HP Navi Mumbai	HP Navi Mumbai HP Puerto Rico	HP Navi Mumbai HP Puerto Rico HP Corporate Office	HP Navi Mumbai HP Puerto Rico HP Corporate Office

**Note – FY 2019-20 and FY 2020-21 include only Hindustan Platinum India.**

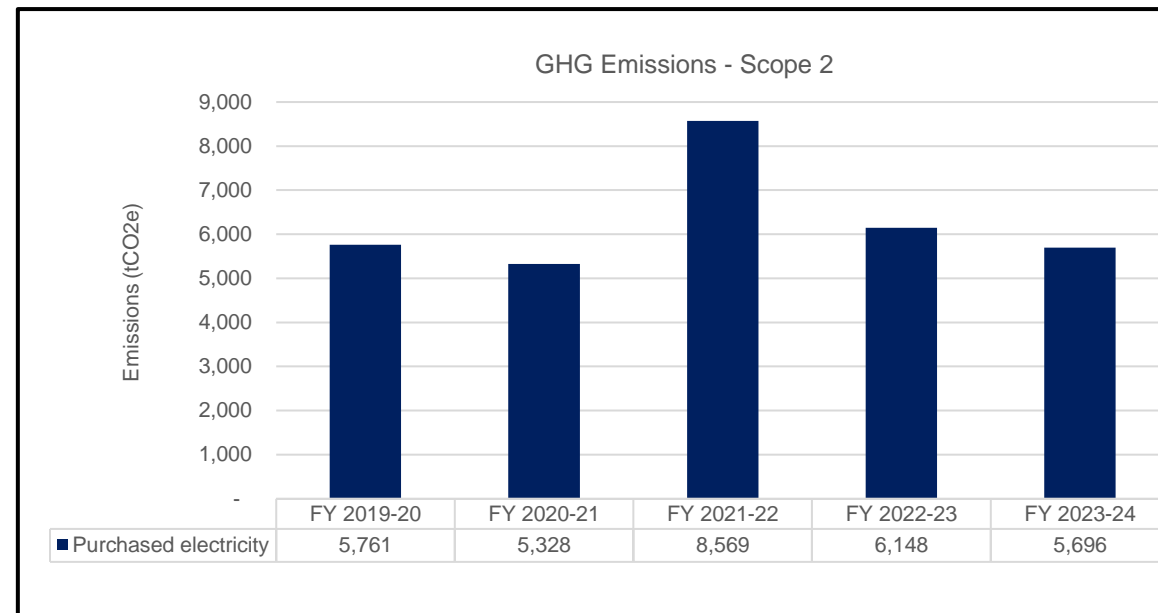
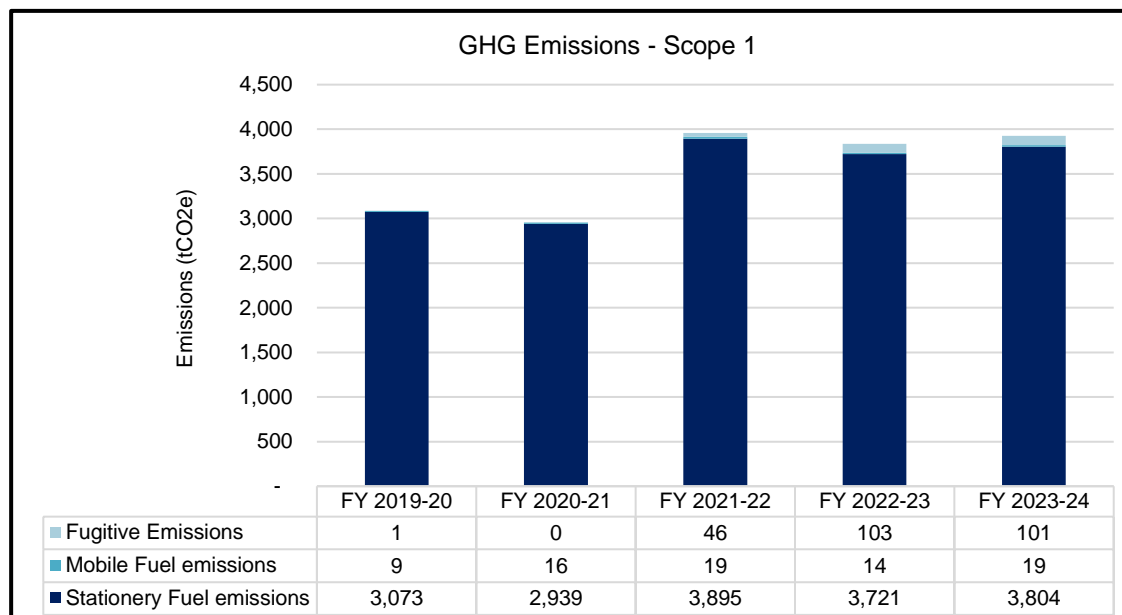
**FY 2021-22, FY 2022-23 and FY 2023-24 include Hindustan Platinum India and Hindustan Platinum Puerto Rico Emissions**

# GHG Emissions



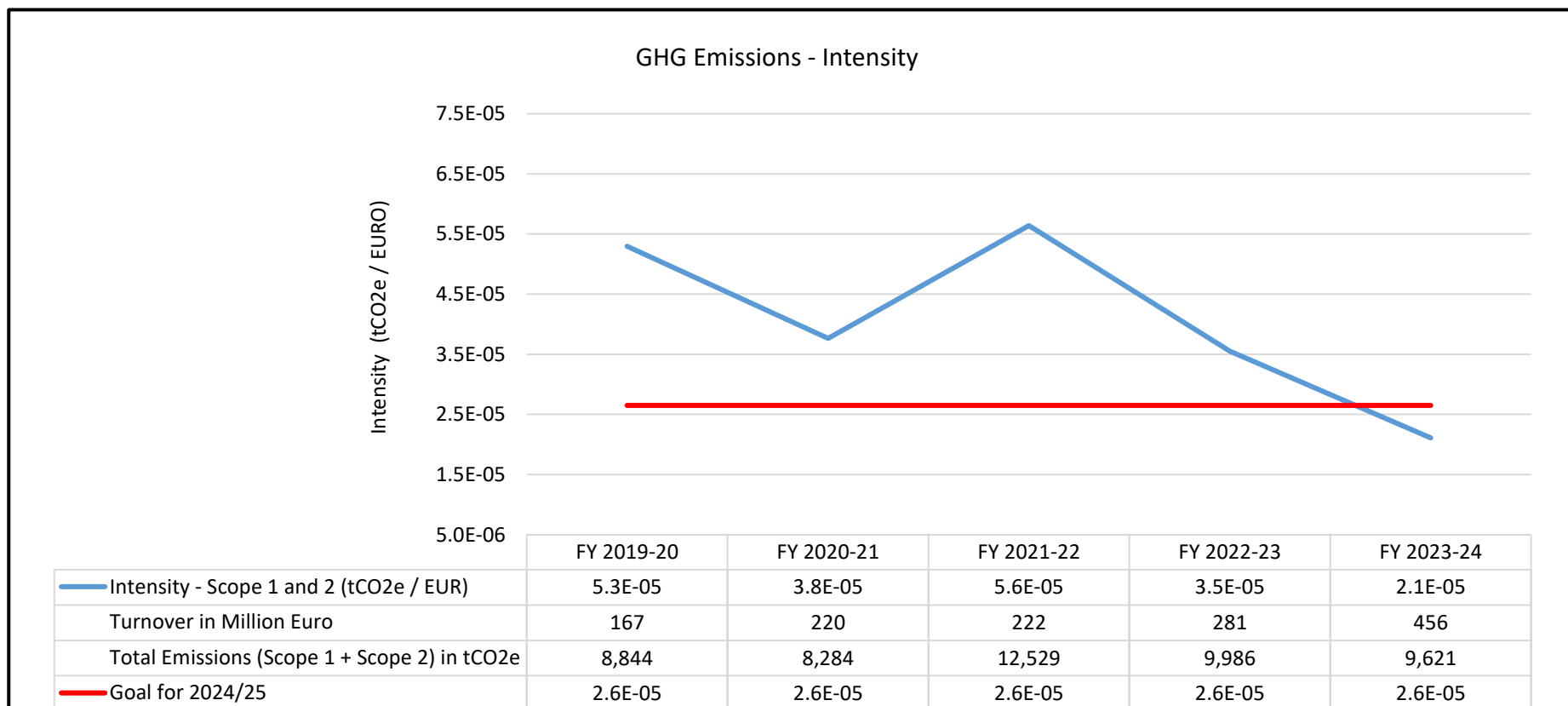
- The emissions from FY23-24 are at the same level as the emissions from FY22-23, despite of the 62% growth of the company's revenue
- Comparing FY23-24 with baseline year of FY19-20, the company's revenue grew 173% and the scope 1 and 2 emissions increased 9%. The increase on emissions, specially on scope 2 emissions, is impacted by the acquisition of a plant in Puerto Rico. The first year of reporting for Hindustan Platinum Puerto Rico is FY21-22

# Scope 1 & 2 - Emissions



- In FY23/24, there is a slight decrease in purchased electricity, due to the increasing use of renewable energy sources at the Navi Mumbai Plant, reduction of Electricity Consumption at the Puerto Rico plant, replacement of conventional lamps to LED and the use of more efficient processes in production.
- Spike in scope 2 emissions for FY2021-22 is due to the inclusion of Hindustan Platinum Puerto Rico in the report.

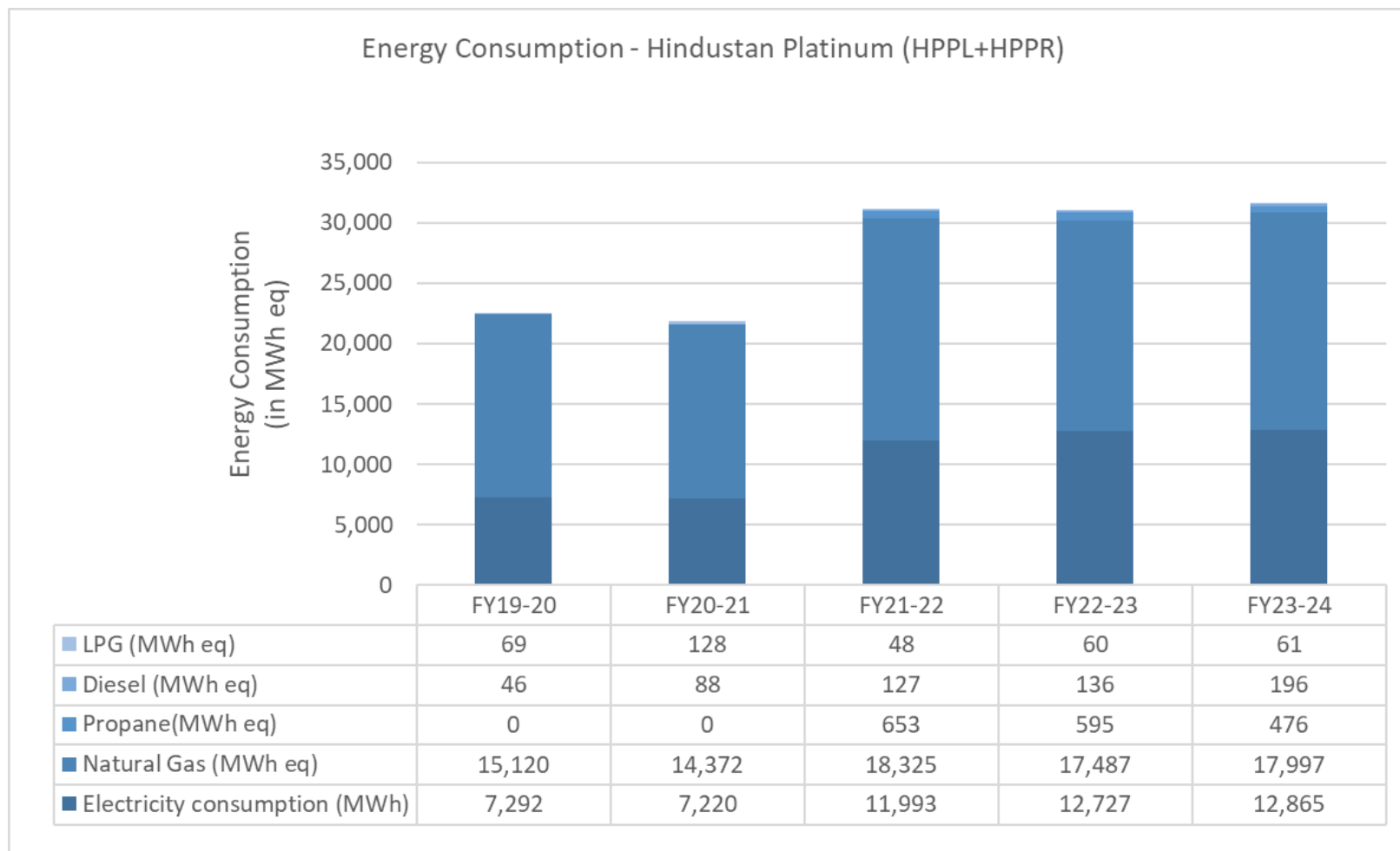
# GHG Emissions (Scope 1 and 2) - Intensity



HP achieved in FY 23/24 its goal for FY 24/25:  
Reduction of the Intensity of Emissions to 50% of FY2019/20 (Baseline year)

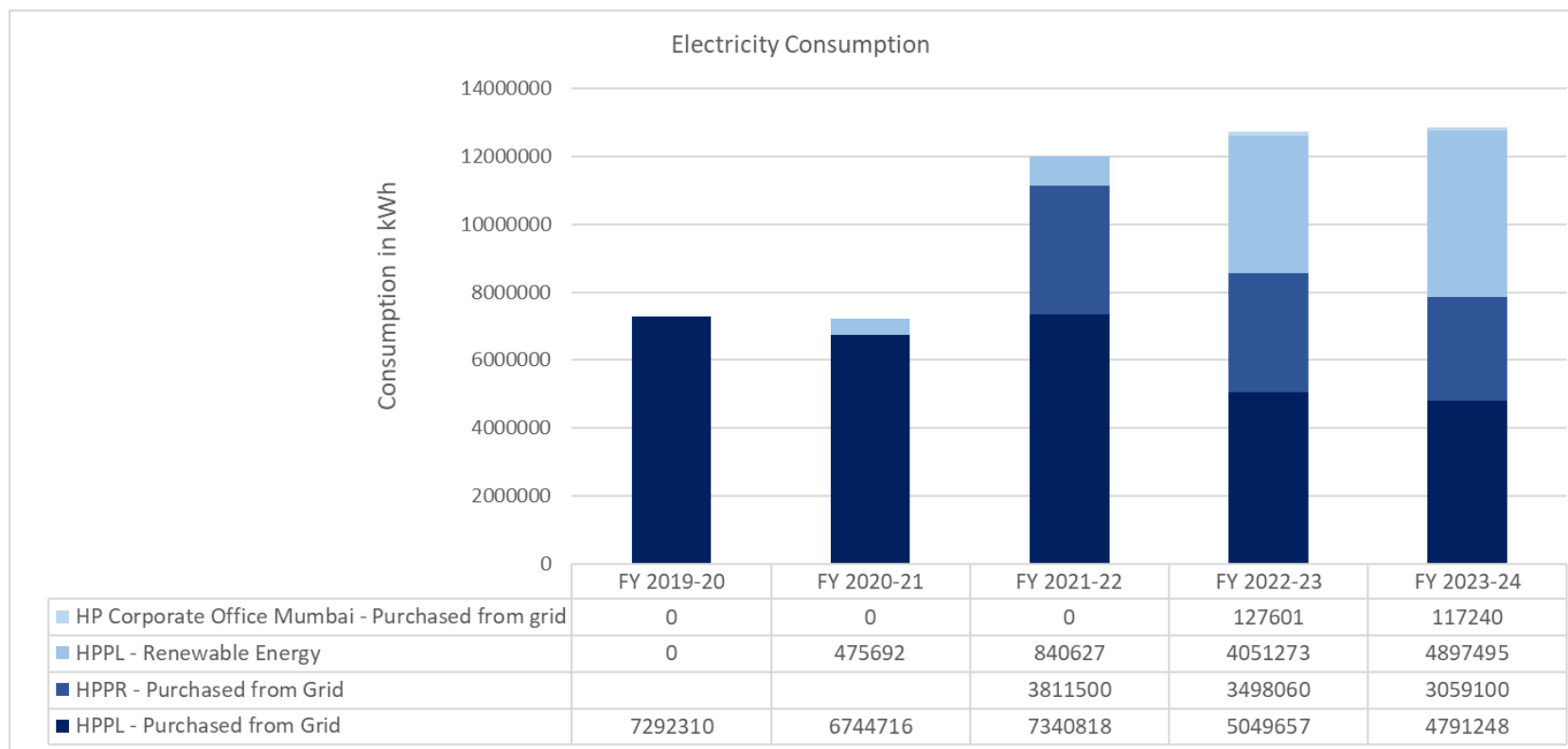


# Energy Consumption



- HP Puerto Rico is included since FY 2021-22, impacting electricity and propane.

# Electricity Consumption – Included in Scope 2 Calculation



- HP started to consume renewable electricity in its Navi Mumbai plant in FY20-21
- In FY23/24, 38% of electricity consumed by HP comes from renewable sources
- HP Corporate Office in Wadala started the operations in April/2022
- HP Puerto Rico is included since FY 2021-22

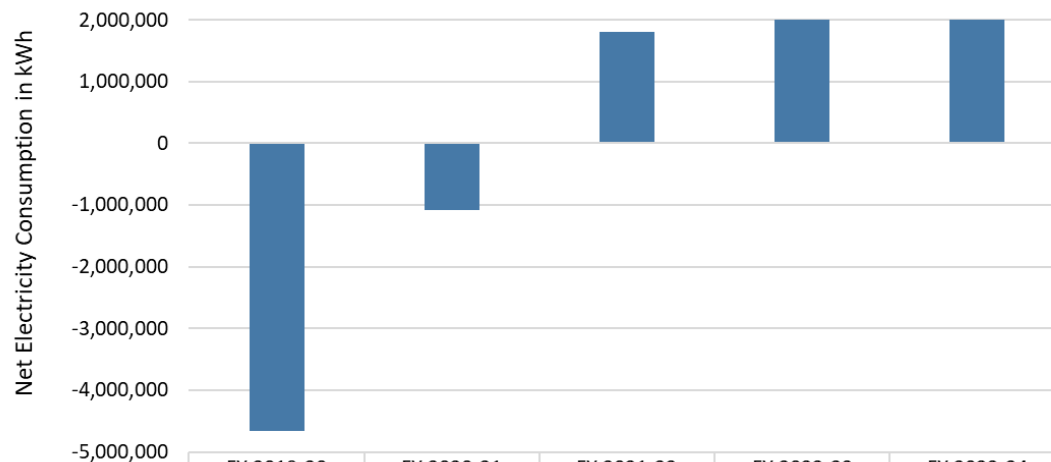
# Electricity Generation Plants owned by HP

- From 2004, Hindustan Platinum has been investing in Renewable Energy, having currently five generation plants.
- Out of the five generation plants, two are currently providing electricity to HP plant in Navi Mumbai and three supply electricity to the Grid

Hindustan Platinum - Electricity Generation Plants					
Sr.No.	Type of Energy	Capacity of Plant	Site Address	Plant Make	Commissioning
1	Solar	2.50 MW	Survey Nos. 1222/1223/1218,Village Dhabla Sondhiya,Jaisinpura Teh: BarodDist: Shajapur, MP	Shan Solar/Ujaas 240wp	30.09.2013
2	Solar	1.25 MW	Survey No. 53 to 57, 59 to 61Village Rojhani/Rojhana, Tehsil Barod,Dist: Shajapur, MP	Renesola 250wp	30.09.2013
3	Wind Mill (Captive Use at HPPL)	3.30 MW (1650MW X 2 WTG's)	R - 22, Gat No. 297, at Revangaon (bhud) Village, Khanapur Taluka, Sangli District 415307 Maharashtra	Vestas	10.03.2004
4	Wind Mill	1.2 MW (0.60MW X 2 WTG's)	AMARSAGAR_Temdarai, Rajastan (2 Hectare)	Enercon Now known as Windworld (E40x2)	10.03.2004
5	Solar U3 (Captive Use at HPPL)	238kwp	C122, TTC Industrial Area, Pawane, Navi Mumbai 400703, Maharashtra	Minus CO2	01.01.2023

# Electricity Matrix - HPPL

Electricity Consumption

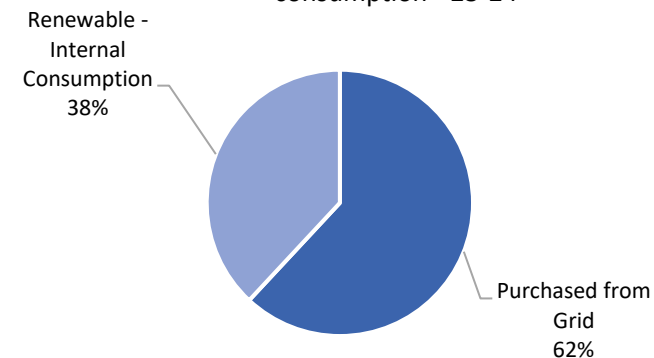


	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24
Net Electricity Consumption (HPPL+ Corporate+HPPR)	-4,656,188	-1,082,695	1,806,293	3,664,297	2,350,310
Purchased from Grid	7,292,310	6,744,716	11,152,318	8,675,318	7,967,588
Renewable - Internal Consumption	0	475,692	840,627	4,051,273	4,897,495
Renewable - Sold to the grid	11,948,498	7,827,411	9,346,025	5,011,021	5,617,278

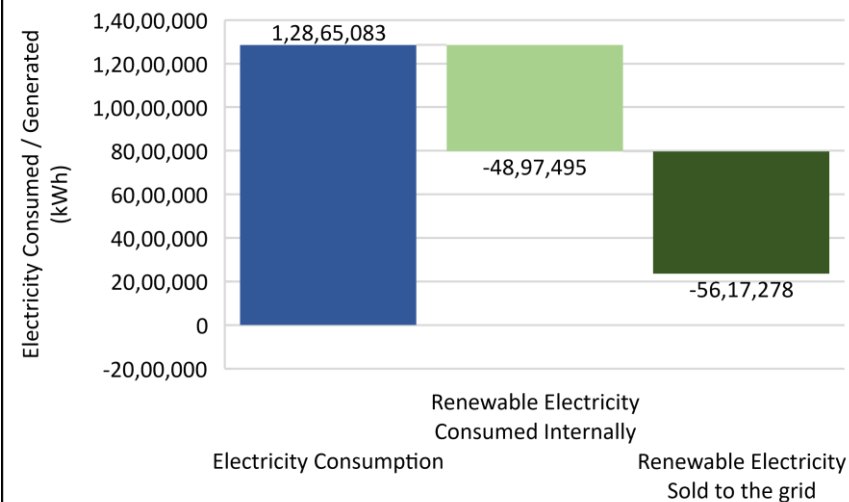
Net Electricity Consumption = Electricity Purchase from the Grid – Renewable Electricity Sold to the grid

Hindustan Platinum Group Generated 81% of the total Electricity Consumption in our Renewable Plants

Electricity Consumption and Generated for internal consumption - 23-24



Electricity Matrix 23/24



# Summary

- HP has invested in Renewable Energy for the last 20 years
- HP has 5 Renewable Energy Plants (2 Windmill plants and 3 Solar plants)
- HP generates from renewable sources 81% of the consumed electricity
- Comparing FY23-24 with baseline year of FY19-20, the company's revenue grew 173% and the scope 1 and 2 emissions increased 9%. The increase on emissions, specially on scope 2 emissions, is impacted by the acquisition of a manufacturing plant in Puerto Rico. The first year of reporting for Hindustan Platinum Puerto Rico is FY21-22
- HP emissions from FY23-24 are at the same level as the emissions from FY22-23, despite of the 62% growth of the company's revenue
- In 23/24, HP achieved one of our main sustainability goals: HP achieved a Reduction of 60% in the Scope 1 and Scope 2 Emission Intensity against our target of 50% reduction in comparison with FY 2019/20 figures (Baseline year).

# Next Steps - Scope 1 & 2 - Emissions

- HP has committed to set near- and long-term company-wide emission reductions in line with science-based net-zero with the SBTi.
- Hindustan Platinum has responded to the SBTi's urgent call for corporate climate action by committing to align with 1.5°C and net-zero through the Business Ambition for 1.5°C campaign.
- Currently Hindustan Platinum has the following targets, which will be redefined in 24/25:
  - Scope 1 Absolute Emissions – Reduction of at least 10% by 29/30 in comparison with 21/22 Emissions
  - Scope 2 Absolute Emissions – Reduction of at least 15% by 29/30 in comparison with 21/22 Emissions
  - Scope 1 and 2 Intensity – Reduction of at least 50% by 24/25 in comparison with 19/20 Intensity



DRIVING AMBITIOUS CORPORATE CLIMATE ACTION



Target dashboard

Hindustan Platinum

FILTERS

DOWNLOAD XLS

COMPANY/FINANCIAL INSTITUTION	TARGETS			ORGANIZATION TYPE	
	NEAR TERM	LONG TERM	NET-ZERO		
Hindustan Platinum Pvt. Ltd India, Asia	COMMITTED	-	COMMITTED	Company	View less

Date published/updated

2024

Sector

Chemicals

Target summary

Near term: Committed

Net zero: Committed

# Emission Factors

- The emission factors that were used for calculations at Hindustan Platinum India are:

Fuel	UoM	Value	Source
Diesel	Kg CO2e/Litres	2.56	DEFRA
Petrol	Kg CO2e/Litres	2.16	DEFRA

Fuel	UoM	Value	Source
Purchased Electricity (FY 2022-23)	Kg CO2e/kWh	0.71	CEA
Purchased Electricity (Before 2022)	Kg CO2e/kWh	0.79	CEA

Gas	UoM	GWP	Source
LPG	KgCO2e/ton	2939.28	DEFRA
Natural Gas	KgCO2e/m3	2.02	DEFRA

- The emission factors that were used for calculations at Hindustan Platinum Puerto Rico are

## Emission Factors

### Hindustan Platinum Puerto Rico

#### For Fuel and Electricity

Fuel	UoM	Value	Source
Diesel	Kg CO2e/Litres	2.70	USEPA
Propane/LPG	Kg CO2e/Ton	3043.94	USEPA
Purchased Electricity (FY 2023-24)	Kg CO2e/kWh	0.72	USEPA
Purchased Electricity (FY 2022-23)	Kg CO2e/kWh	0.71	USEPA
Purchased Electricity (Before 2022)	Kg CO2e/kWh	0.73	USEPA

#### Sources:

CEA – Central Electricity Authority – India

DEFRA - Department for Energy Security & Net Zero – UK

USEPA - United States Environmental Protection Agency

# GHG Emissions - Details

Category	Emission Sources	Data Collected
Stationery Fuel emissions	<ul style="list-style-type: none"><li>- Stationery fuel in Diesel Generator sets</li><li>- Natural Gas consumption</li><li>- LPG consumption In Kitchen</li><li>- Propane Gas Consumption</li></ul>	<ul style="list-style-type: none"><li>- Consumption of Diesel in Diesel Generators Sets</li><li>- Consumption of Natural Gas</li><li>- Total No. of cylinders procured for LPG consumption</li><li>- Consumption of Propane</li></ul>
Mobile Fuel emissions	<ul style="list-style-type: none"><li>- Fuel consumption by company owned vehicles</li></ul>	<ul style="list-style-type: none"><li>- Consumption of petrol by company owned vehicles</li></ul>
Fugitive Emissions	<ul style="list-style-type: none"><li>- Leaks in refrigerant systems</li></ul>	<ul style="list-style-type: none"><li>- Top up of the refrigerants and fire extinguishers</li></ul>
Purchased electricity	<ul style="list-style-type: none"><li>- Electricity usage</li></ul>	<ul style="list-style-type: none"><li>- Consumption of grid electricity</li></ul>





Hindustan Platinum

# Thank you

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