

# Carbon Reduction Plan

Supplier name: Piramal Pharma Ltd. (PPL)

Publication date: 18/09/24

Commitment to achieving Net Zero

PPL is committed to achieving Net Zero emissions by 2050.

Baseline Emissions Footprint

Baseline Year: 2022	
Additional Details: Piramal Pharma Limited (PPL) commits to reduce absolute Scope 1 and Scope 2 GHG emissions 42% by FY 2030 from a FY 2022 base year. PPL also commits to reduce Scope 3 emissions 25% within the same time frame. We have identified applicable scope 3 categories to reduce emissions.	
EMISSIONS	TOTAL (tCO <sub>2</sub> e)
Scope 1	56,578
Scope 2	85,844
Total	1,42,422

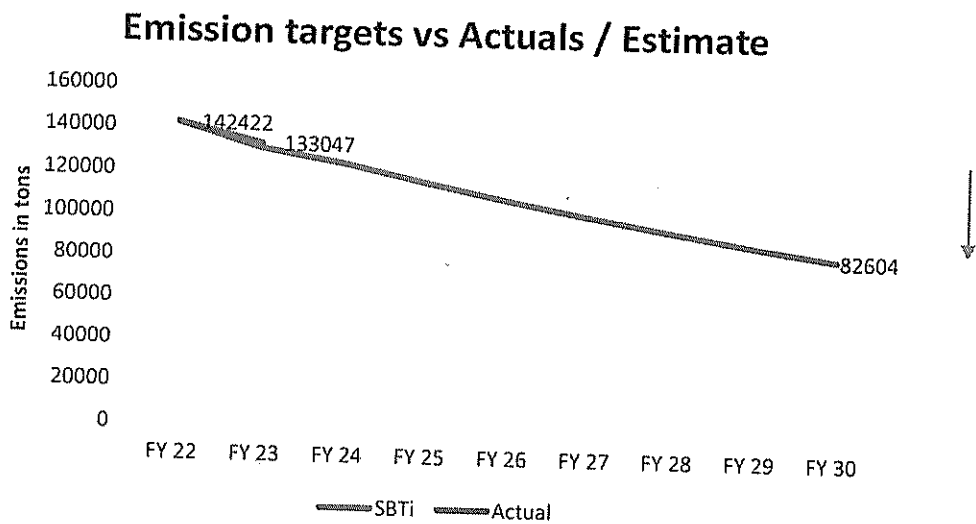
Emissions Footprint 2023

Reporting Year: 2023	
EMISSIONS	TOTAL (tCO <sub>2</sub> e)
Scope 1	55,229
Scope 2	75,494
Total	1,30,723

Emissions reduction targets

In order to continue our progress to achieving Net Zero, we have adopted SBTi standard for reducing Scope 1, Scope 2 GHG emissions 42% and also reducing scope 3 emissions 25% by 2030 from a FY 2022 base year and our targets have been approved by SBTi. We have developed the detailed decarbonization road map for each of the sites to achieve the SBTi near term target of 8 years.

Progress against this target can be seen in the graph below:



#### Carbon Reduction Projects

##### Implemented Carbon Reduction Initiatives

The following environmental management measures and projects have been completed or implemented since the 2022 baseline.

Digwal Site had the major reduction of 2,417 tCO<sub>2</sub>e emissions. Below are some of the initiatives taken by Digwal, Ennore, Pithampur, Mahad, Dahej, PDS, PPDS and Lexington sites of PPL:

- Captive Solar (Rooftop) 165 kWp
- Reduction of power units at by installation of temperature controller at Cooling tower
- Reduction of power unit at Fluidised Bed Combustion (FBC) Boiler by Variable Frequency Drive (VFD) installation
- Power savings through various initiatives/kaizens in Utility
- Motor Pump replace with Pressure Power Packaged Pumping Unit (PPPU) for condensate transfer
- Energy Efficient Water & Brine Chiller installation-solvent savings
- Elimination of Transformer No-load losses.
- Replacement of Cooling Fans, Air Compressors, Transformers, Chillers with equipment having higher energy efficiency.
- Installation of automatic condenser cleaning system in Chillers and installation of temperature controllers.
- Parking Lot LED Lighting upgrade.
- Reciprocating type air compressor to be replaced with screw compressor
- Replacement of conventional type Shell-and-Tube (S&T) economizer with Plate Heat Exchanger (PHE)
- Replacement of thermostatic expansion valve with electronic expansion valve

- Steam Condensate Recovery System
  - Reduced furnace oil consumption in boiler
  - Reduced power consumption reduction in Exhaust Blower
  - Power consumption reduction in Exhaust Blower
  - V-Belt to Flat Belt
  - Modification of Air Handling Units (AHUs) with Capacitor installations, Cooling Water Line for Air Compressor
  - VFD installations in Motors, Air Compressors
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Some of our proposed future carbon reduction projects are:

- Installation of Solar Plant at multiple sites
  - Replacing fossil fuel boiler with 2 MW NG based Combined Heat & Power (CHP) plant
  - Fuel Switch from Ultra Low Sulphur Fuel Oil (ULSFO) to Propane in the boiler
  - Using steam from Waste Heat Recovery (WHR) Plant
  - Various Energy Efficient Measures:
    - Auto Tube Cleaning System for Chilled brine plant
    - Replacing V belt to Flat belt Phase II for AHUs
    - Replacement of o-block corridor AHU & Dehumidifier with energy efficient AHU
    - Replacing Heating, Ventilation, and Air Conditioning (HVAC) system
    - Upgrading to LED lights
    - Installation of VFD to chilled brine system
    - Power consumption reduction by composite coating in cooling water pump
    - Replacement of old motor IE1 (standard efficiency) with new IE2 (high efficiency) energy efficient motor and installation of VFD for the motor
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#### Declaration and Sign Off

This Carbon Reduction Plan has been completed in accordance with PPN 06/21 and associated guidance and reporting standard for Carbon Reduction Plans.

Emissions have been reported and recorded in accordance with the published reporting standard for Carbon Reduction Plans and the GHG Reporting Protocol corporate standard 13 and uses the appropriate Government emission conversion factors for greenhouse gas company reporting.

Scope 1 and Scope 2 emissions have been reported in accordance with Streamlined Energy and Carbon Reporting (SECR) requirements, and the required subset of Scope 3 emissions have been reported in accordance with the published reporting standard for Carbon Reduction Plans and the Corporate Value Chain (Scope 3) Standard.

This Carbon Reduction Plan (CRP) has been reviewed and signed off by the board of directors (or equivalent management body).

Signed on behalf of the Supplier:



Peter DeYoung

Executive Director and CEO, Piramal Global Pharma

Date: 18/09/24