Environmental Stewardship (continued)



Monitor

Monitoring our energy consumption helps us identify patterns and irregularities, validate energy savings, and make informed decisions on areas of intervention. Regular monitoring also aids in extrapolating

current energy consumption trends to infer and forecast future energy demand, set energy reduction targets, and assess the effectiveness of implemented energy-saving initiatives.

This section highlights our annual energy consumption trends over the past four years. A steady decline in the proportion of non-renewable sources in our energy mix also characterises our overall decrease in energy intensity.

Energy Consumption (in GJ) ⁴⁸	FY20	FY21	FY22	FY23
Total energy from non-renewable sources	3,249,576	2,984,789	3,020,730	2,936,517
Total energy from renewable sources	925,374	1,308,767	1,383,094	1,376,682
Total energy consumption	4,174,950	4,293,557	4,403,824	4,313,199
Energy intensity (GJ/revenue in ₹ Million)49	18.67	18.67	16.81	15.04

48GRI 302-1, 49GRI 302-3



Energy Mix FY23 (in %)

78







R R FY20 FY21 FY22 FY23

Total Energy from Renewable Sources
 Total Energy from Non-renewable Sources

Non-renewable Energy Mix FY23 (in %)



Minimise and Decarbonise

We have been progressively integrating renewable energy within operations to reduce dependence on fossil fuels and decrease greenhouse gas emissions. In FY23, we invested ~₹2,143 Million in clean energy and energy-efficient projects.

We have successfully reduced our consumption of high-speed diesel (HSD), furnace oil, and coal by transitioning to biomass fuel, a carbon-neutral energy source.

Environmental Stewardship (continued)

In FY23, we have implemented focused energy efficiency measures⁵⁰. Some of these are enumerated below:



Emissions Management

Scope 1 GHG Emissions⁵¹

We periodically monitor and report on the emissions of direct fuels consumed (HSD, furnace oil, petrol, CNG, LPG, LDO, and coal) in our operations. Our Scope 1 emissions demonstrate a declining trend over the past four years, both in absolute and intensity terms.



Scope 1 Emissions (tCO₂)



Emission Intensity for Scope 1 [tCO₂/revenue (in ₹ Mn)]



The emissions from using biomass in our operations have been classified as biogenic emissions, accounting for a total of $57,577 \text{ tCO}_{2}e$ in FY23.

⁵⁰GRI 302-4 and 305-5, ⁵¹GRI 305-1 and 305-4