



## Energy

The process of cement manufacturing is highly energy-intensive. Hence, it is crucial to implement state-of-the-art energy management practices and effective efficiency measures to contribute to a low-carbon economy, minimising the impact on climate change. SGC has been a pioneer in embracing newer and innovative technologies with the goal of enhancing efficiency.



### Key highlights of FY2024

**1,52,11,513** GJ  
**Total energy consumption**

**74.71** kWh/tonnes  
**Energy intensity**

**5,90,611** MT  
**Total fuel consumption**  
(including Alternate fuel)

**52,584** MWh  
**Green energy consumption**

**4,07,940** MWh  
**Non-renewable energy consumption**

**23.96** MW  
**Clean energy capacity**

**49,248** MWh  
**Waste heat recovered**

### Key initiatives

- **1.35 MW** and **130 KW solar plants** are in operation at our Mattampally and Bayyavaram locations, respectively
- Implemented **WHRS of 8.80 MW** at Mattampally and 5.30 MW at Jeerabad
- A **80 KW solar roof panel** is operational at our corporate office
- At the Mattampally unit, we have **improved green energy generation** by adding a damper to optimise hot gas utilisation in the bypass duct
- **Feasibility study** for the establishment of 10 MW solar and 30 MWh battery facility in Gudipadu plant

### Action plan

- Reduce energy intensity through implementation of energy efficient processes and upgradation of equipment
- Minimise energy losses and maximise waste energy recovery
- Implement systems for monitoring energy generation and usage
- Add additional solar power plants
- Install WHRS power plants for all kilns