







PGP Glass Decarbonization- Net Zero 2050



Why Decarbonization Matters for PGP Glass

1. At PGP Glass, sustainability is central to our business strategy.
2. Glass is one of the most sustainable packaging materials – infinitely recyclable, safe, and circular. Decarbonizing our operations strengthens this advantage and ensures glass remains the preferred choice for our customers.
3. By reducing our carbon footprint, we not only address climate change but also lead the global shift towards sustainable packaging in Cosmetics, Perfumery, Food & Beverage, and Pharmaceuticals.

Decarbonization enables us to:

-  Strengthen competitiveness in markets
-  Build long-term resilience against energy volatility and future carbon costs.
-  Collaborate with customers who are setting climate targets and expect sustainable suppliers.
-  Contribute to India's and global Net Zero goals, reinforcing our leadership as a responsible manufacturer.

This is not just compliance. **It is PGP Glass's commitment to innovation, responsibility, and value creation for all stakeholders.**

PGP Glass Commitment to SBTi (Science Based Targets Initiative)

Overall Net-Zero Target: _____

PGP Glass Private Limited commits to reach net-zero greenhouse gas emissions across the value chain by FY2050.

Near-Term Targets: _____

PGP Glass Private Limited commits to reduce absolute scope 1 and 2 GHG emissions 50.4% by FY2032 from a FY2023 base year.*

PGP Glass Private Limited also commits to reduce absolute scope 3 GHG emissions 50.4% within the same timeframe.*

Long-Term Targets: _____

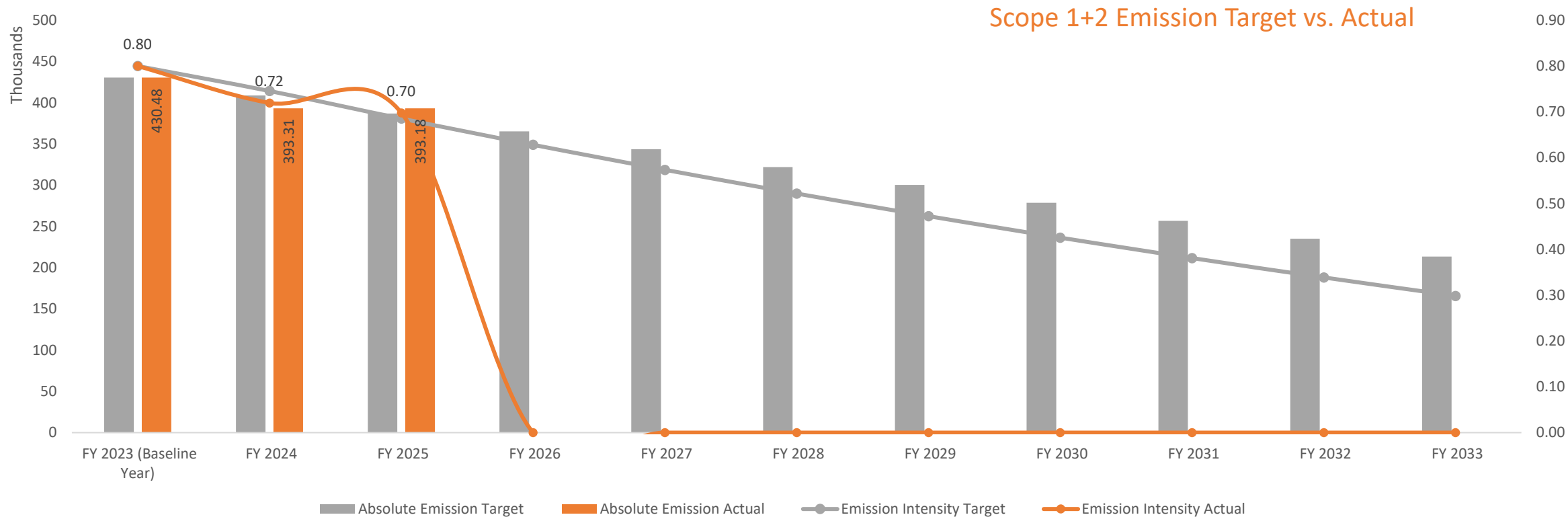
PGP Glass Private Limited commits to reduce absolute scope 1 and 2 emissions 90% by FY2050 from a FY2023 base year.*

PGP Glass Private Limited also commits to reduce absolute scope 3 emissions 90% within the same timeframe.*

*The target boundary includes land-related emissions and removals from bioenergy feedstocks.

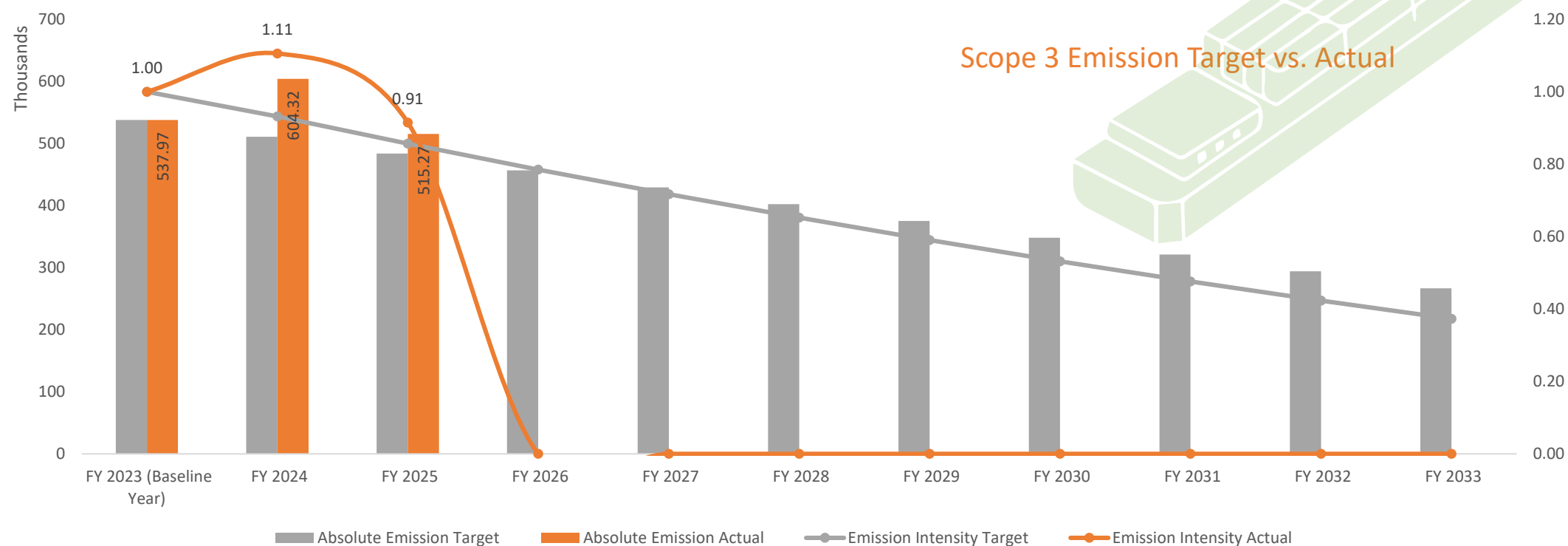
Scope 1 & Scope 2 Coverage

1. Scope 1: All fuel-based emissions happening at site
2. Scope 2: Purchased electricity



Scope 3 Coverage

1. Purchased Goods and Services, Capital Goods and Services, Fuel and energy related activities, Upstream T&D, Operational Waste, Business Travel, Employee Commute, Downstream T&D, Processing of sold product, End of life treatment



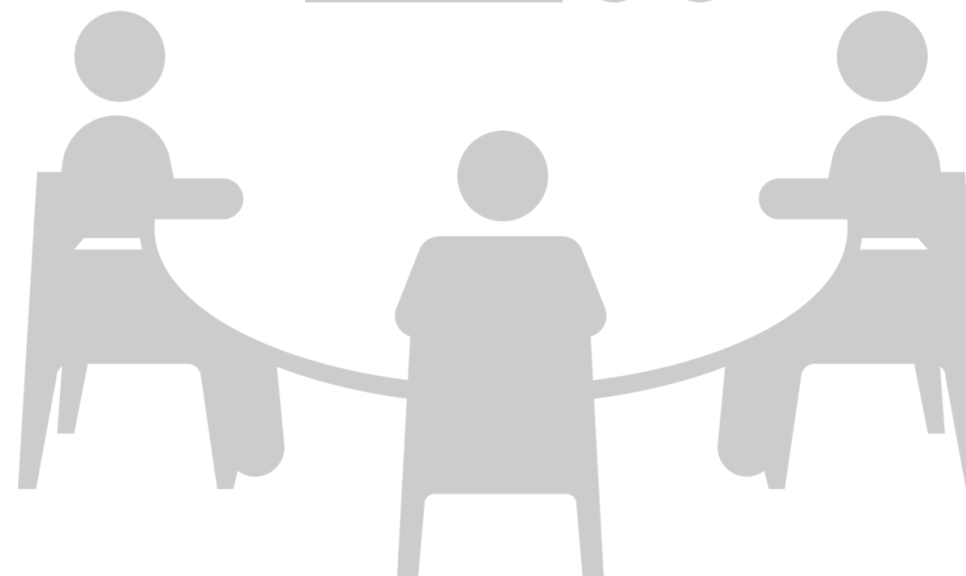
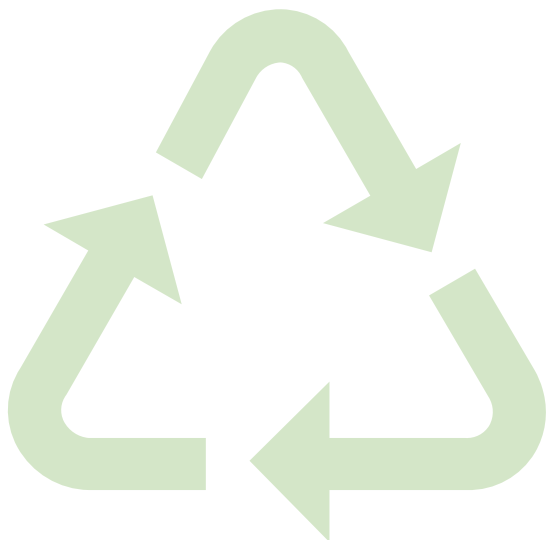
Near-term Levers (to FY33)

1. **Energy efficiency** in furnaces and forming
2. Waste **heat recovery** systems
3. Onsite & offsite **renewable energy** (solar, wind, green PPAs)
4. Optimized **cullet** use (recycled glass) to reduce energy demand
5. Lean operations: reducing **water** & packaging footprint
6. Alternate **Fuels** trails



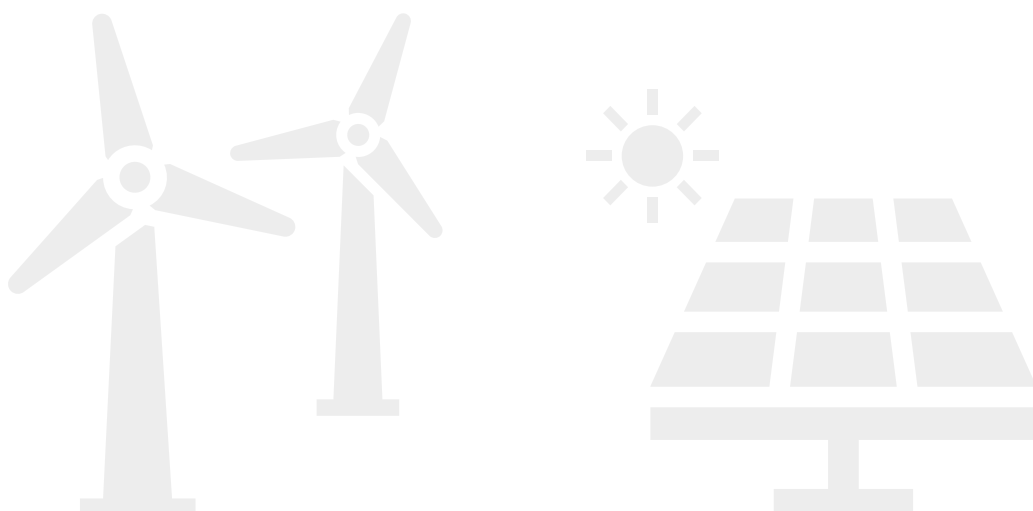
Scope 3 & Circularity

1. **Sustainable** sourcing of raw **materials**
2. On sites **audits** of the suppliers to help them improve their **efficiency**
3. Supplier engagement programs to align on **decarbonization** goals
4. Closed-loop **recycling** with customers and municipalities
5. Packaging innovation to **reduce plastic** and cardboard use



Mid-term Transition (2033–2040)

1. **Electrification** of lehrs and forehearths
2. Pilot **hydrogen** and **biogas** co-firing
3. Carbon Capture, Utilization & Storage (**CCUS**) pilot programs
4. Continued scaling of **renewable** electricity
5. Expansion of **digital** monitoring systems
6. Discontinue Air Conditioner



Long-term Net Zero (2040–2050)

1. Full transition to **electric furnaces**
2. Large-scale **CCUS** implementation
3. **Zero-emission logistics** (EV fleets, green shipping)
4. Alternative **raw materials** with lower carbon footprint
5. Smart factories with **AI-driven** optimization



Enablers & Governance

1. Renewable **energy procurement** and RE100-aligned PPAs
2. **ISO-certified** monitoring and reporting systems
3. **Green finance** and carbon markets to support investments
4. Partnerships with **tech providers** and academia
5. **Transparent** stakeholder communication



What Stakeholders Can Expect

1. Progressive milestones toward 2033 and 2050 targets
2. Low-carbon product portfolio for Cosmetics, F&B, and Pharma sectors
3. Transparent disclosures via Sustainability Reports, CDP, and EcoVadis
4. Contribution to global climate action and resilient growth



Network India

NET ZERO
2050

Thank You