SEEING THROUGH

Sustainability & Environment February 2020 | PGL.02.20.e12

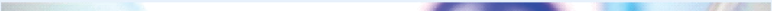
Welcome

In our glass-container manufacturing and decoration processes, our constant aim is to create value through three vital pillars of Sustainability – Economic, Social, and Environmental. Over the years, we have made significant transformations in strengthening our core infrastructure and processes to accomplish our Sustainability Goals.

At Piramal Glass, we not only meet our global regulatory requirements but also make significant contributions towards building a globally sustainable ecosystem by deploying green initiatives. A reflection of this are the multiple projects that we have implemented across our facilities, which we would like to share through this newsletter.

Vijay Shah
Vice Chairman, Piramal Glass

Piramal Glass has an Integrated Sustainability Strategy with its Business Strategy



FRESH
CLEAN
TRANSPARENT
AND COLOURFUL
ISO 14001
ENVIRONMENTAL MANAGEMENT SYSTEM
Believers in Glass
GLASS MAKING | PACKAGE RIGHT PACKAGE HEALTHY | EARTH LOVES GLASS | TYPES OF GLASSES | CREATIVITY UNLEASHED | EVENTS |

Glass is a sustainable, fully recyclable material, which provides great environmental benefits such as contributing to mitigating climate change and saving precious natural resources. It is highly appreciated in many applications for its inert nature and contributions to safeguarding people's well-being. A vital element in our sustainability strategy is to use raw material, energy and other resources responsibly. We have successfully reduced energy usage, cut carbon emissions and footprint, increased the amount of recycled glass, and created a safer and greener ecosystem. As an ISO 14001 organization, we constantly invest in the field of environmental preservation. We take responsibility for the environment around us by constantly cultivating our green footprint. For our commitment to the global environment, we have tied up with 'Believers in Glass', the social movement that highlights the benefits of using glass and the health hazards pertaining to the usage of plastic.

Renewable Power Source as Viable Means to Reduce Carbon Emissions

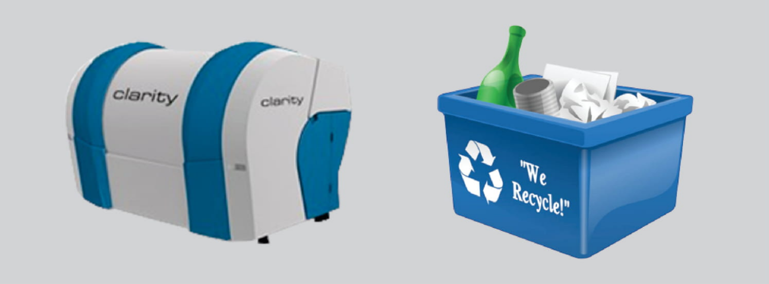
As part of our sustainability strategy, we have added renewable power sources in our energy consumption portfolio. We have successfully installed Solar Roof-Top system of 4.4 MW at our

are planning to install more Solar Roof-Top systems and large-scale Solar-Farms. We have also successfully installed four Wind-Power systems generating 8.4 MW in India. At both the locations, India facilities and of 3.0 MW at our Sri Lanka facility. Solar Energy generation is not only contributing to green power generation but also helping us in rationalizing the energy cost. In the near future, we we have exploited renewable energy to the maximum permissible level as per local regulatory norms and legislation.

Energy Conservation & Energy Efficiency Initiatives

All our furnaces are equipped to handle dual fuel systems and designed to create better efficiency and minimum emissions. To make the furnaces more energy efficient, few of them are equipped with an Electric Boosting system along with Natural Gas. Natural gas is preferred for combustion since it has very less content of Sulphur, burns more cleanly than other fossil fuels, and emits lower levels of harmful emissions. As a preferred energy source, our furnaces use Natural Gas for more than 90 percent of the time.

Recycling Improves Sustainability, both Ecologically and Economically

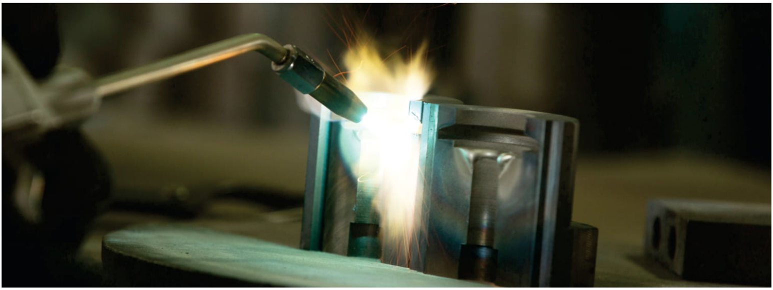


We regularly invest in the right infrastructure and processes to collect, sort, distribute, and recycle used glass, to scale up the sustainability. Reusing used glass has vastly improved the environmental balance of our glass production. Recycling has helped us reduce our emission footprint and waste production. We are maximizing the intake of cullet in our furnaces. For the production of clear and amber glass, we can use up to 60 percent of the used glass. For us, the quality of the used glass material, that is collected, and how it is processed is of utmost importance. We have enhanced our Cullet-Sorting capabilities by installing a fully automatic high speed, optical camera-based, cullet sorting equipment from Binder+Co Austria called Clarity. It completely filters cullet sourced from open market from any impurities and sort according to colour, even in the smallest from 1 mm onwards.

Post-Consumer Recycled (PCR) Glass Campaign

To increase the quantity of glass to be recycled, we have launched a Post-Consumer Recycled (PCR) glass campaign to support glass recycling by local consumers. Majority of PCR glass waste does not get re-melted back to glass and this creates problems for both the environment as well as local authorities. Hence, we designed this campaign, to collect PCR glass from end-consumers through dedicated collection bins placed at various strategic locations.

Sustainability Made Easy with Lightweight, Thin Glass



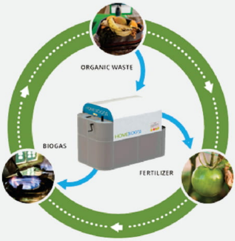
At Piramal Glass, with new production techniques and in-house expertise, it is becoming more & more feasible for us to manufacture thin-walled, lightweight glass containers. Lightweight glass containers reduce energy and raw material consumption, thereby saving resources. Our glass technology and expertise ensure that our glass containers weigh significantly less while remaining as strong and stable as their heavier predecessors do.

Water Conservation Initiatives

Through rainwater harvesting, we regularly recharge the groundwater. The water levels have

saved more than 70 cu m/day of raw water. We are working towards a Zero Discharge Plant. We have increased by over 30,000 cu m/year and on the other hand, the levels of Total Dissolved Solids have reduced. We have defined multiple surface rainwater harvesting points across our facilities, including five rainwater-harvesting points at our Kosamba, Gujarat, India facility. By efficient recycling and reusing of Effluent Treatment Plant treated water and Sewage Treatment Plant treated water, we have reduced groundwater drawal and Reverse Osmosis (RO) systems in all our facilities. We are supplying RO-water not only to our employees and employees' quarters but also to the local population in the nearby villages. We have also installed RO-systems in the nearby schools and villages for their usage. We have started to use RO-reject water in our Batch Mixer (for Batch Preparation) on a trial basis and we are planning to save up to 10 cu m/day of RO-reject water.

Waste Reduction Initiatives by Piramal Glass



Piramal Glass is amongst the pioneers in the glass packaging industry to re-use food waste by converting it into fuel for preparing food and garden fertilizers within factory premises. At our Jambusar, Gujarat, India facility, all food waste are disposed back rather than being dumping outside. Food waste disposal system, whereby biodegradable food wastes are moved to a commercially available Bio-digester in order to generate methane gas. This gas is then used as fuel for making food and the secondary output, which is a liquid fertilizer, is used for gardening purposes within the factory premises.

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