

Health, Safety and the Environment are the keywords of the new Radici Plastics Suzhou site

Facts&Figures

RadiciGroup designed the new site in China taking into consideration the qualified criteria of the international LEED (Leadership in Energy and Environmental Design) standard and the Chinese GBL-2 Star standard. These are two systems that indicate the guidelines for building in a sustainable way and that take into account various aspects such as construction sites with a reduced impact on the surrounding environment, efficient management of water, energy, materials and resources, quality of the interior environments.

Below are the most significant aspects of the new RadiciGroup area in China.

Environment

Energy:

- **Rooftop distributed PV panels** for a total capacity of around 1.45MWp, with an expected average annual power generation of around 1,315,000 kWh. This will improve the electricity generation mix and reduce indirect CO₂ emissions (Scope 2). Besides producing electricity, the PV system will also heat water for domestic use. (LEED*)
- **Building monitoring system:** to increase energy efficiency and guarantee excellent indoor environmental quality. (LEED*)

Water:

- **Rainwater recycling system:** rainwater from the roofs will be filtered, stored and reused for external cleaning, watering and toilet cistern refill. (LEED*)
- **Zero Liquid Discharge system:** efficient use of process water and zero discharge of effluents.
- **Optimized and more automatized logistic processes** will further reduce pellet spills, in line with our commitment to Zero Powder and Pellet Loss (OCS – Operation Clean Sweep).

Air:

- **High efficiency environmental protection equipment** for the aspiration and treatment of dust and vapours, achieving high abatement rates of volatile organic compounds (VOCs) and hazardous air pollutants (HAPs).

Waste:

- **Reduction of hazardous waste** production (sludge) thanks to a new dry vacuum system.



Health and Safety

The mechanical handling of goods and related risks will be reduced thanks to:

- The installation of raw material silos directly connected to the production lines.
- The installation of elevators to lift the raw materials to the feeding platform.
- An optimized logistics layout.

Manual work will be reduced thanks to further automation in the packaging process.

Workers' exposure to dust will be further reduced thanks to further automation of offline powder dosing systems.

**Aspects considered by LEED standards*

Figures

36.000 mq: total area (building + internal roads + green areas + parking)

27.000 mq: built area (walkable areas)

18.000 mq: base area covered

17.000 mq: a production area and related offices + R&D

3: floors of the building

15: columns for charging electric cars

120: overall staff

1: nursery.

