

SIEMENS and OSAI for the circular economy

The best of industrial automation technologies in the recovery of precious metals

Location: Parella (TO), Italia

Highlights:

- Siemens digital technology at the service of recycling
- Simatic ET200 SP Energy Meter, Energy Manager and Siemens Industrial Edge for monitoring and optimizing energy consumption



OSAI GREEN TECH

It is a division of the Osai Group, led by Osai Automation Systems S.p.A. Società Benefit, a company specializing in industrial automation. It is the spearhead of the Osai Group in the sustainable technology sector, founded in 2022 with the specific mission of providing automation at the service of the recycling industry.

With a strong commitment to research and development, it continues to improve the efficiency, speed, and sustainability of the recycling process with highly reliable products.

Solution/Portfolio

The RE4M (RECYCLING FOR MANUFACTURING) system is an innovative solution that puts the latest technologies and automation of industry 4.0 at the service of recycling, a modular plant that aims to extract, select and recover precious metals such as gold, palladium, silver and copper, from WEEE electronic boards.

Siemens has provided automation and intelligent electromechanical products – from HMI, PLC to drives and networking devices – all integrated into the TIA Portal framework. It has also selected devices and software capable of detecting and measuring data on energy consumption inside the machine, such as Simatic ET200 SP Energy Meter, a multimeter integrated inside the PLC. Another essential element in the implementation of the project was Energy Manager, an app from the portfolio of industrial applications that allows you to monitor consumption in real time and identify any anomalies within the system. The use of the Siemens Industrial Edge platform has also proved to be an indispensable support in terms of energy saving and optimization.

Benefits

The collaboration between Siemens and Osai GreenTech has shown that automation and digitalization can make a real difference in making the world of recycling more and more efficient.

"The goal of our collaboration has been fully achieved: to have a single interface for all automation and electromechanical components, as well as the possibility of energy monitoring and optimization through digital solutions"

Fabrizio Clemente, Project Manager OSAI



SIEMENS