

Case Study - Recycling Sorting Plant



Our Solution

The recycling plant of the municipality of Elefsina, General Recycling SA, required a complete system to manage the incoming waste materials. Leon Engineering has managed to provide its solution for the complete automation of all its functional areas.

With the Leon Engineering solution the truck driver performs the unloading process in an automatic mode, by interacting with the system components, as such: the truck driver goes to the weighbridge entry where he identifies himself by using the touch panel terminal or his RFID card and gets registered in the system.

After checking with positioning sensors that the truck is in the correct position, traffic lights notify him to proceed onto the weighbridge where he performs the weighing operation. The procedure concludes with the truck exiting the weighbridge and the system registering the weight, while the truck driver can pick up by the kiosk the weighing ticket.

Leon Engineering has provided all the necessary tools and equipments for the complete automation of the entry/exit gates and weighbridge and all the necessary software tools for waste management and business analysis (weighbridge management software, statistical analysis applications etc).

Leon Engineering System Installations on Recycling Plants around Greece:

Aspropyrgos Recycling Sorting Plant (RSP) – General Recycle SA

Elefsina Recycling Sorting Plant (RSP) – Alpha Green SA

Fyli Recycling Sorting Plant (RSP) – EPANA

The installed solution consists of:

- One unattended 18m weighbridge with a capacity of 70Tn
- Vehicle number plate recognition system
- Surveillance Camera
- Touch panel terminal for the truck drivers
- Access traffic lights and Traffic Barriers
- LEWIS weighbridge management software
- RFID card reader
- Application software

Benefits:

- Self service operations 24/7
- Computerised weighing management
- Waste control and automatic determination of the total quantity
- Real time weighing sequence supervision for increased security



*** Touch panel**

