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TESYS ISLAND

**CONTROL AND MONITORING
OF ALL DATA FROM 12
MOTORS IN AN EXISTING
PRODUCTION LINE**

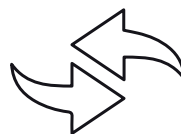




CHALLENGE

The waste processing company IVOO from Ostend wanted to achieve additional capacity for an existing ash handling line and set several requirements:

- ✓ Current measurement per motor
(total of 12 motors)
- ✓ Overview of the status of each motor
- ✓ Number of starts and stops of the motors
- ✓ Operating hours of the motors for preventive maintenance
- ✓ Remote intervention capability
- ✓ Easy maintenance and component exchange
(plug & play without software settings)



SOLUTION

The company IVOO opted for the solutions provided by the system integrator 'De Roeve,' specialized in production automation. De Roeve took charge of replacing the existing production line, including the electrical control panels, automation software, and visualization.

The choice of TeSys Island offered several advantages for the system integrator, such as the availability of TIA Portal function blocks, a wide current range of the motor modules (up to 80A), simple installation that saved on I/Os, assembly time, and wiring. Moreover, the customer's requirements were standard features of TeSys Island.



ADVANTAGES

FOR THE END USER

The customer has access to the web server (OMT), where data from the motors is visible, including status, alarm notifications, energy consumption, and other information. Additionally, for maintenance and spare parts, the customer can easily exchange motor modules without the need to reconfigure the parameters, and all this using the same type of motor module. As only short-circuit protection needs to be provided on TeSys Island, this can be done per motor group, resulting in significant cost savings for the entire installation.

FOR THE SYSTEM INTEGRATOR

The installation of the control panel is simpler, more compact, and quicker to assemble. During startup, not all parameters were correctly set, but thanks to access via the web server, physical intervention could be avoided. Also, during programming, the standard function blocks were easily applied in the TIA Portal program.

THE KEY ADVANTAGES

All motors are monitored without the need for additional wiring or components, and both data and energy measurements, operating hours, and status are available via the web server. TeSys Island can function perfectly with other PLC brands, eliminating the need to modify the automation architecture, as well as the competencies of the system integrator and end-users.

