ENERinTOWN Case Study

Energy use in the Nenagh Waste Water Treatment Plant

Client

North Tipperary County Council

Overall objective

Implementing low cost measures to optimize the use and cost of electricity to facilitate waste water treatment at a lower cost.

Object data

The Waste water treatment plant in Nenagh is a combined effluent treatment plant that treats waste water and rainwater. Its energy consumption is driven by biological loading and water throughput.

Initial Situation

Realisation model

Energy training was delivered to the caretaker of the station and then a brainstorming session was organized between the caretaker, some water services engineers and some energy experts. Once the data was available this was invaluable.

Measures to implement

No measures are currently implemented, as time ran out during the project, but the energy management action plan has a few key items on it:

- Installation of power factor correction equipment
- Installation of VSD level control on low lift pumps
- Installation of sensors, flowmeters and sub metering as part of the energy benchmarking project
- Installation of High Efficiency motors on replacement.
- Review of pumping efficiencies from other parts of town.

Contact

Paul Kenny
Tipperary Energy Agency
Craft Granary
Church St,
Cahir,
Co. Tipperary.
+353 52 43090
pkenny@tea.ie