BlueWatt is offering medium-sized municipal wastewater treatment plants a simple, 2-step process for implementing our web-based **gWATER PlantOptimiser** on your plant.

**PlantOptimiser** can optimise your plant on a daily basis using high-fidelity models of the treatment process. This enables your operations personnel to run your plant at maximum efficiency – every day.

The implementation starts with a free consultation to explain the approach and understand the scope. We then perform a plant performance audit, followed by a full implementation and training on-site.

Typical reduction in operating cost: 10–40%
ONLINE OPTIMISATION

BENEFITS

Because wastewater treatment plants are built to cater for future loads, they often operate at less than maximum efficiency.

Model-based optimisation techniques frequently identify 10-40% savings in operating – typically energy – costs simply by generating optimal setpoints for aeration controllers, sludge line recirculation flowrates and sludge extraction rates. Because plant loads change from day to day, the maximum benefit is achieved by running the optimiser whenever required.

Everyday Efficiency is a service to implement a high-fidelity optimisation model of your plant that can be run directly by your operators via a web browser. The return on investment is typically less than 1 year.

A TWO-STEP PROCESS

Following a free initial consultation to determine the scope of the audit and understand any specific challenges, we will proceed with implementation in two steps

Step 1 – audit
Here we will:
- Build a model of your plant and fit this to available data
- Determine the optimal operational efficiency attainable
- Provide a short report including:
  - estimates of potential benefits
  - a summary of data shortcomings
  - benefits of additional instrumentation
  - a costed proposal for step 2
- Present and discuss result on-site

At the end of Step 1 you can decide whether you wish to proceed with Step 2

Step 2 – full implementation
Here we will:
- Refine models based on new data
- Validate these against different operation scenarios
- Build the gWATER PlantOptimiser user interface
- Implement PlantOptimiser on-site
- Perform site acceptance testing against selected operation scenarios
- Train your plant personnel

“Our optimiser is already saving 30% on our electricity costs”

Plant Manager, Lac Leman WWTP plant

Optional tablet implementation

BENEFITS
- Reduce operating costs by 10-40%
- Reduce energy consumption
- Improve water quality
- Quickly detect sensor malfunctions and data mismatch
- Reconcile data and improve reporting
- Enhance plant information and meet KPIs
- Typically < 1 year ROI

Find out how BlueWatt can improve your wastewater process efficiency at
bluewatt-eng.com