

Water

What is Water for? Supplying Industry, Houses and Job Creation

Did you know?

The Greater Dublin Water Supply Area (GDWSA)

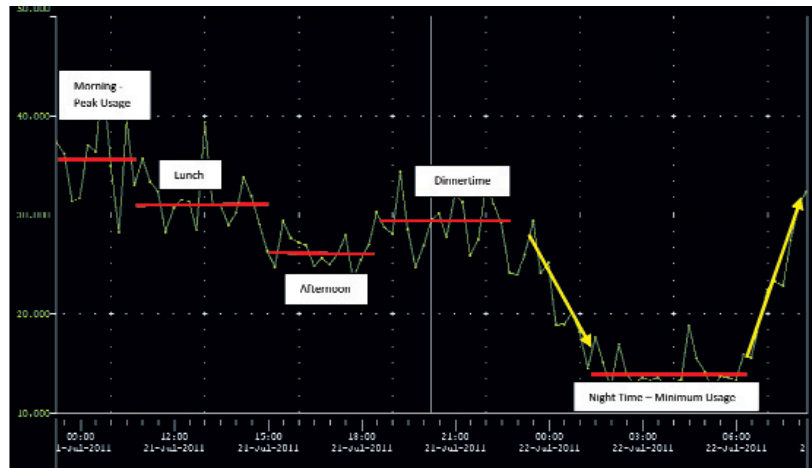
- Covers 7 Local Authority Jurisdictions
- Serves a population of 1.35 million
- Produces 520 Million Litres of Water Each Day (enough water to fill Croke Park From Pitch to Roof level) from four sources - see illustration (right)
- Operates and Maintains 8 million metres of water main
- Directly employs 260 staff
- Indirectly supports hundreds of construction jobs through large capital investment projects
- Consistently achieves 99.999% compliance with EU drinking water standards



520 Million Litres of Water produced each day



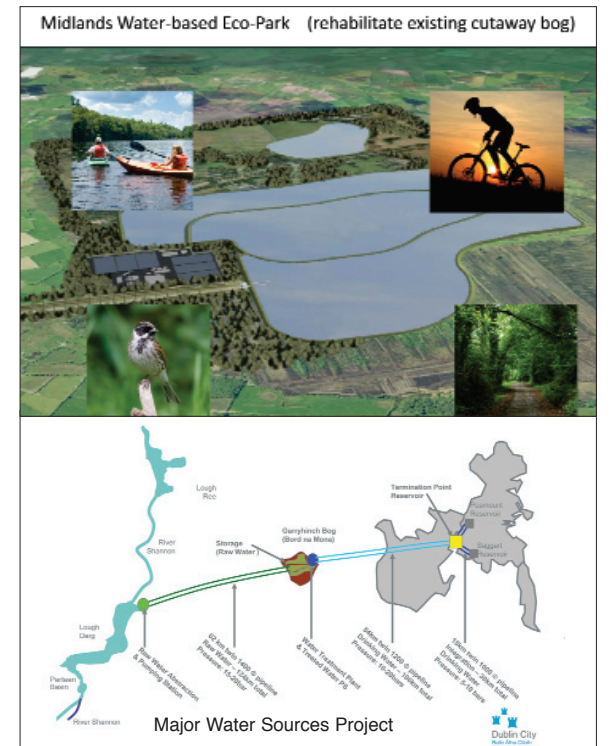
Aerial view of Ballymore Water Treatment Plant



Graph of Water Usage over 24 hours in Typical Residential Area



Water Services Staff: (l-r) Davey Gray, James Geraghty and Colm Cannon at Bannow Road Depot



Water Conservation

Dublin Region Water Conservation Project (1994 – 2000), which resulted in:

- New Monitoring, Control and Data Systems.
- Metering and telemetry systems.
- 530 District Meter Areas (DMAs)
- A regional GIS system was established.
- Regional hydraulic models were constructed.
- Pressure management in selected areas.
- Burst Record Database.
- Establishment of trained leakage control teams.
- Reduction in Unaccounted for Water (UFW) from 42% to 28% or 64 million litres of water per day.

Further reductions could not be made until Dublin's old Victorian watermains were replaced. This paved the way for the Dublin Region Watermains Rehabilitation Project.

Dublin Region Watermains Rehabilitation Project (2002 to present)

- 80,000 metres of ancient Victorian watermains have been rehabilitated.
- 9.6 Million further litres of water per day have been saved.
- Detailed design has been completed for a further 150,000 metres of watermain rehabilitation.
- New pressure management systems are being rolled out.



Dublin Region Watermains Rehabilitation Project

Supply and Distribution

- Extension to Ballymore Eustace, increasing sustainable production from 250 to 320 million litres per day.
- Covered Reservoir at Varray Water treatment plant.
- North Fringe Distribution Project including:
 - 13,000m of 600 /450/250 /200mm diameter ductile iron watermain.
 - 300m of 560mm diameter high performance polyethylene watermain.
 - Sillogue Water Tower, 5 million litres storage (see photo below)



Sillogue Water Tower beside M50

The Future

Smart Metering

The smart meter communicates the recorded water readings both to the supplier and the consumer, allowing the supplier to build demand profiles and better manage the resource, and the consumer to control their usage and reduce waste and bills.

