



# Dubai Electricity and Water

## Real-Time AQUIS System

United Emirates

### Dubai

Dubai is one of the fastest growing cities, especially the requirements for new and exclusive hotels fosters a number of unique projects, unseen before in this world.



*Burj Al Arab Hotel - Dubai, looking like the spinnaker of a ship*

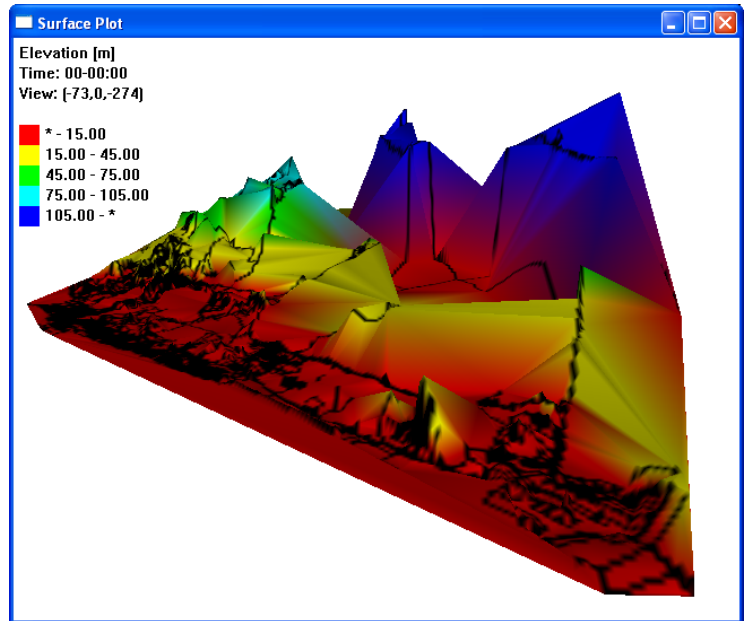
### Objective with the Project

- To get the latest technology in model based Water Management System, including
  - Optimisation of Operation
  - Control of Water Quality
  - Leakage (NRW) Management
  - Capacity Analysis
- GIS and SCADA connectivity

## CUSTOMER CASE

### Network Description

Water consumption:	535,000 m <sup>3</sup> /day
Km of main pipes:	4000+
No. of inhabitants:	700,000+
No. of consumer points:	196,525
Maximum size of pipe:	1200 mm
Minimum Size of Pipe:	100 mm
Number of reservoirs:	8
Number of pump stations:	8



### AQUIS Applications

- AQUIS Hydraulic 20,000
- AQUIS Leak Detection (NLM/IFM)
- AQUIS Model Manager
- AQUIS Water Quality
- AQUIS Surge
- AQUIS Load Forecaster
- AQUIS Real-Time

### System Integrator

7T has been the system integrator and a sub-contractor to the main contractor Cegelec in Frankfurt, providing the overall SCADA system.

Palm Island – one of the largest construction projects in the world.