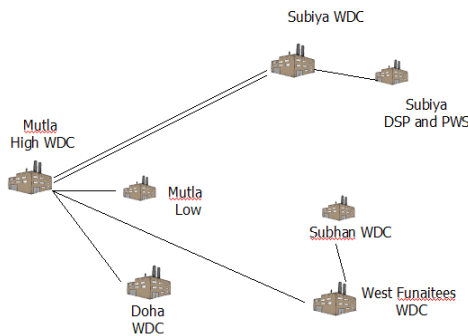




# Subiya Water Management Applications

- System** : Subiya
- Location** : Kuwait
- Scope** : Water Management
- End User** : Ministry of Energy
- Installation Date** : November 2009
- Pipe Length** : 600km +
- Fluid** : Desalinated and Brackish Water

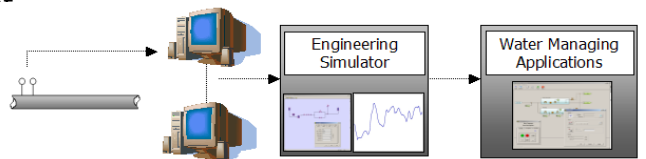


## Simulator Scope

The scope of supply includes for a fully configured simulator that models the desalinated and brackish water supplies in both offline and online mode. This includes the complete pipeline and the reservoir storage capability. The model consists of over 600km of pipework with over 200 valves, 20 reservoirs, 20 pumps, 4 surge vessels and the control scheme.

## System Benefits

The engineering simulator can be used for undertaking detailed studies on the network include steady state calculations, detailed surge studies and water distribution prediction. The surge studies can fully consider the complete interactive behaviour between the equipment, the pipelines and the control schemes. The water manager+ applications use information determined by the simulator in online mode (i.e. when connected to the instruments installed along the pipe length).



These applications continually totalise the water within the network and the storage facilities. The water distribution and the storage capability is then estimated and managed up to 30 days in advance based on a range of different supply and demand profiles. Automated survival time calculations provide the operator with advanced warning of future critical conditions (such as low pressure or tank emptying) and the expected time at which these critical conditions will occur.

For more information about our products and services, please contact us at

[info@sim-soft.co.uk](mailto:info@sim-soft.co.uk)

Phone +44 (0) 113 281 9038

Simulation Software Limited.  
Mill House  
Hawksworth Road  
Horsforth  
Leeds  
LS18 4JP

[www.sim-soft.co.uk](http://www.sim-soft.co.uk)

