

Non-Revenue Water (NRW) Reduction Strategic Plans

Area of Expertise

A NRW Reduction Strategic Plan sets the baseline, assesses various options for intervention, sets medium- and long-term targets and determines budget and institutional requirements for a Water Utility. The Strategic Plan is often incorporated in a long-term capital improvement program and identifies present and future needs and direction for improving the efficiency of a water distribution system.

The JOAT Group of Companies has developed a unique software model to produce WC/WDM and NRW Reduction Plans for water utilities in short period of time and with very high confidence levels. The objective of the preparation of the Non-Revenue Water (NRW) Strategic Plan is to provide both a strategic and operational framework to the Water Utility to implement it's NRW reduction interventions over a period of time.

Our propriety interactive predictive model has been developed a ndsummarizes the recommended intervention strategy, anticipates the impact of intervention on Non-Revenue Water, and economically evaluates all recommended interventions. The interactive predictive model allows flexibility to the Client in determining the output from any number of scenarios per system and overall perspective.

The following NRW reduction scenarios can be modeled:

- System Input Reduction modelling (budget-dependent)
- Billing Improvement modelling (budget-dependent)
- NRW Target establishment, determining target NRW % by volume and budget requirements
- Maximum achievable NRW % by volume
- NRW target establishment by cost:benefit ratios

