



# Smart Renewables

OPERA for Water

OPERA for Water is a cloud-based, IoT-powered intelligent platform which enables operational excellence to water utilities. It integrates the silos of the data spread across water supply and distribution to provide operation analytics and meaningful business insights to various stakeholders.



A Larsen & Toubro  
Group Company



## Challenges

- Expanding geography of network and growing demand for water
- Scarce water resources
- Aging infrastructure and poor visibility on asset health
- Increasing operations and maintenance expenses
- Stringent regulatory SLAs for quality, pressure and non-revenue water



## LTI Solution

- Cloud-based scalable solution to suit all stakeholders, e.g. utility operators, regulators, OEMs, contractors
- Operation performance scenarios specific to water supply management
- Integration with sensors at pump stations, treatment plants, storage tanks, pipelines, bulk and domestic water meters
- Map integration to bring locational analysis across water supply network
- Big data analytics to detect probability of leakage based on patterns of water consumption
- Asset Performance Management for predictive maintenance of pumps



## Business Benefits

- 30-40% improvement in SLA compliance, eg. water pressure in line, quality, non-revenue water
- Energy & Chemical consumption analysis leads to 5-10% cost control
- Role-based KPIs and operation scenarios provide actionable insights to meet individual KRAs
- Proactive prevention of pump failures and avoid outage
- Multi-dimensional analysis provides single version of truth
- Locational analysis significantly reduces time, effort and money to find any faults across the water network

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