Water Losses

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**Mass Balance**

**Input**
- Receiving water from neighbor nets/ suppliers.
- Local water resources.

**Output**
- Selling water to internal customers.
  Transferring water to external nets/ customers.

Input – Output = Storage + Water loss
Disadvantages

- Economic significance.

- Waste of limited resource.

- Credibility of water supply system.

- Water quality risks.

Engineering


- Metering – modeling -
  - Total measurement -
  - Close circuit -

- Pressure – regulating -
  - Less is better -
Engineering steps
General planning.
Detailed planning.
Implementation.
Maintenance.
Software - Modeling.

Engineering steps
Software - Modeling.
Scada – Supervisory control and Data Acquisition
A.M.R. – Automatic Meter Reading
Thank you