

Semiconductor water and wastewater treatment

De Nora's extensive process knowledge enables us to be a reliable partner in meeting your fab's water and wastewater challenges.



DE NORA
Dare. Develop. Deliver.

Key offering



Ultrapure water (UPW) system

- Production of UPW – the quality of UPW is dependent on the source and specification required.
 - Pretreatment
 - Make-up
 - Polishing
 - Hot and cold loops



Recycling, reuse or reclaim

- Recycling of separated streams
 - Last rinse
 - Low-polluted water streams (fluoride, metals, IPA, ammonia, TMAH)
 - Backgrinding
- Rainwater treatment
- Reclamation of heavy metals



Wastewater management

- Separation of waste streams and associated drains, transfer pipes, lifting stations, chemical distribution and concentrate waste collection systems.
- Safety measures such as ventilation, exhaust systems and alarm systems (for hydrogen and cyanide)
- Electrical, monitoring, control and automation works.



Wastewater treatment

Treatment for various waste streams such as:

- Acid Waste Neutralisation (AWN)
- Hydrofluoric (HF) acid
- Chemical-mechanical polishing (CMP) waste
- Heavy metal waste (Cu-CMP)
- Cyanide
- Ammonia / ammonium
- Isopropanol (IPA)
- Tetramethylammonium hydroxide (TMAH)

Capabilities



Concept development

- Engineering support for solution finding and scoping
- Pilot systems
- Project financing / BOO / BOOT /BOOM

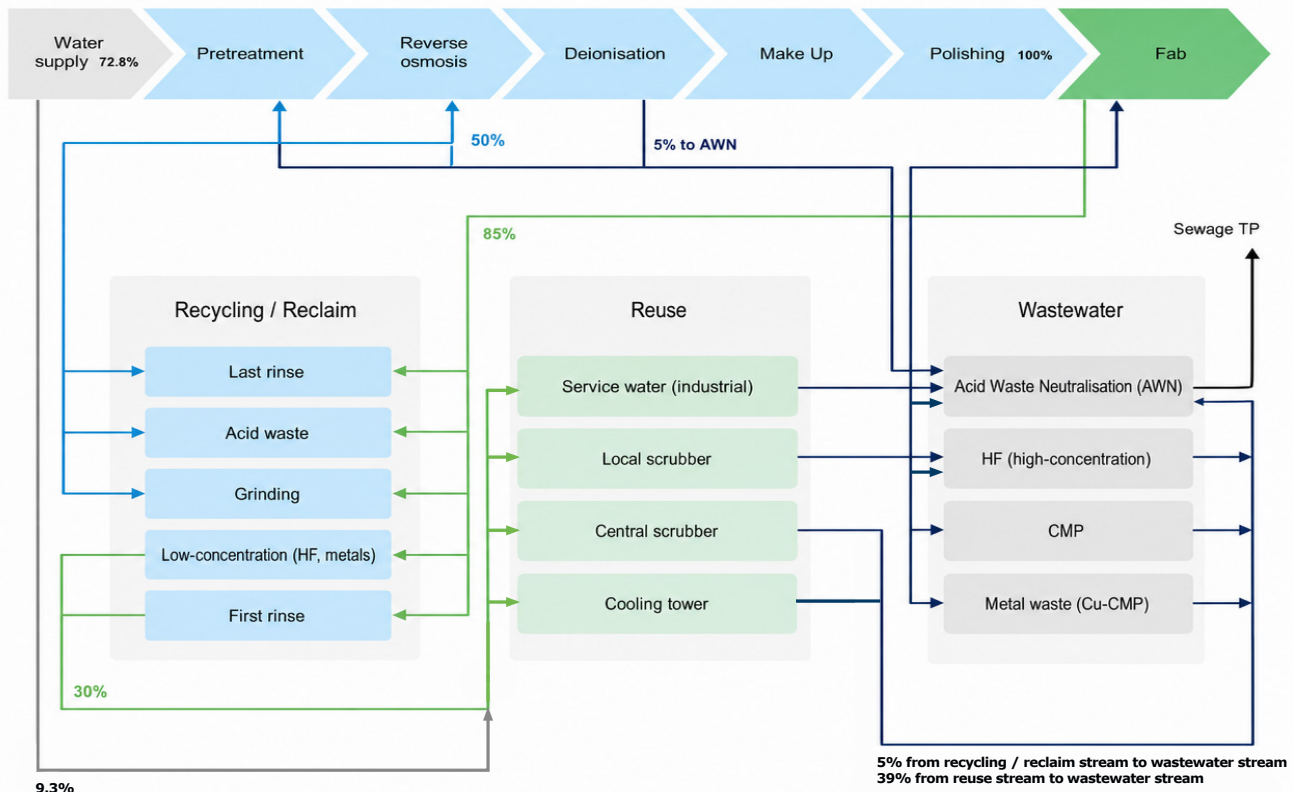


Engineering and design

- Water system complete process design
- Wastewater system complete process design
- Complete system detailed design
- Plant layout, general arrangement and sectional drawings
- Piping isometric design
- Individual equipment skid design
- 3D modelling
- PLC and SCADA programming

Water treatment and recycling processes

For illustrative purposes only. The data and figures presented are not intended to represent actual values.



A full suite of offerings encompassing **your project needs.**



Project management

- Project management and scheduling
- Financial controlling of projects
- Procurement planning
- Sourcing



Fabrication and site installation

- Detailed design and fabrication
- Pre-fabrication and assembly
- Quality control and inspection
- Site installation
- Testing and commissioning



Service and support

- Operation and maintenance 24/7/365
- Spare parts and chemicals
- Plant performance and consumables optimisation
- Modification and improvement of existing system
- Plant upgrades
- Rental mobile solution
- Training

Contact us

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Get in touch

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Discover more



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