LennTech
Water Treatment Solutions

Water Treatment in Agriculture and Horticulture
Water usage in agriculture and horticulture industry is mainly done through irrigation process.

With global agricultural production increase and consequently increase of water demand there has been more and more need to look for water recycling options in order to decrease the water consumption at source.

Lenntech provides sustainable complete solutions for water treatment in agriculture and horticulture industry considering a wide range of technologies and strategies.

APPLICATIONS
- Water recycling
- Irrigation
- Disinfection and biofilm

OUR SOLUTIONS
- Coarse and fine filtration
- Desalination
- Remineralization
- Disinfection

OUR ADVANTAGES
- Engineered and custom designed solutions for unique water and equipment needs
- Turn-key solutions including design, engineering, manufacturing, automation, installation, maintenance and training
- State-of-art technologies for effective water and wastewater reuse
- Full team of engineers for best on-line assistance and on-site service and support
- Worldwide operation and assistance with all language capabilities to support local projects
OUR TECHNOLOGIES

Water recycling

Farmers and growers have been increasingly looking to recycled water as a way to consistently meet their irrigation demands while facing the growth of water scarcity and pollution concerns.

Wastewater (municipal or industrial) recycling allows the consumption reduction of water from natural sources as well as it contributes for the reduction of effluent discharges in the environment.

Reclaimed water can be treated in three different levels: primary treatment (removal of large amounts of solids and organics), secondary (biological) treatment and tertiary treatment (filtration and desalination).

Lenntech custom made water recycling systems include a wide range of technologies, from coarse and fine filtration - multimedia filters, bag filtration, cartridge filtration - to desalination equipment – nano filtration, reverse osmosis. As final steps, pathological contaminants are removed through the usage of UV radiation or ozone disinfection, as well as if necessary, SAR index will be corrected through the usage of remineralization filters.
**Irrigation**

Water recycling for irrigation is not always possible or sustainable in some locations, being the growers using water from natural sources.

Preferred natural sources are river water, well water and sea water. Even not being hardly charged of heavy contaminants, very often these waters can contain a high concentration of suspended and dissolved solids, being way beyond the quality required for irrigation water.

Lenntech can provide a wide range of technologies to reach the quality required for irrigation, from suspended solids removal – multimedia filters and ultra filtration – to reduction of salinity – nano filtration, reverse osmosis. Lenntech provides turn-key solutions, skid mounted, or containerized. The client will have a ready to use solution, with the best local support.

**Disinfection and biofilm control**

Biofilm can be the most underrated threat to successful agriculture and horticulture production. Biofilm can form within a few days and the perfect conditions can be created for irrigated crops infection.

Lenntech can provide the state-of-art disinfection technologies, with the highest quality equipment – chlorine dioxide generator, ozone generator, chemical disinfection, ultra-violet radiation.
Lenntech is currently active in more than 130 countries worldwide, providing ultimate water treatment solutions for all sorts of applications, from domestic equipment to industrial turnkey plants.

Lenntech performs as an organization that strains itself at all time to secure quality, business continuity, continuous improvement, sustainability, satisfied clients, safe working conditions and prevention of pollution. All according to legislation and regulations.

Lenntech works on management system of continuous improvement in the field of quality, safety, health and environment. In addition this management system meets the ISO 9001:2008, the ISO 14001:2004, the OHSAS 18001:2007 and VCA* 5.1 requirements so that the implementation of the system can be verified and confirmed by independent parties.