About us

- Over 30 years of water treatment experience
- End to end engineering water solutions
- Over 100 projects world wide
- Experienced and qualified team
- World wide on-line systems monitoring and support
- Customer and solution oriented
Our Activities

- Greenhouses
- Drinking Water Treatment
- Wastewater Treatment
- Wastewater Reclamation
- Irrigation
- Consultancy Services
- Desalination
- Distribution Pipelines
- Pump Stations
Dripping & Sprinklers Irrigation

Dripping Irrigation
Design and commissioning projects using all leading manufacturers equipment

Sprinklers irrigation
• Overhead & Undertree Sprinklers
• Micro Sprinklers
• Misters & Foggers
Pivot Center & Lateral Move
Distribution Pipelines

- **Purpose**: supply drinking water, reclaim water and sewage
- **The design based on our experience and advanced software such Civil Engineering in order to optimize pipe routing and energy saving**
Greenhouses

Plastic Films:

- Regular and special films for many years using
- Special sheets which transfer different wavelengths for various corps and other applications

Construction:

- Simple setup
- Durability in harsh conditions
Pump Stations

- Transfer and/or elevating either drinking water, waste water and reclaim water
- Planning based on extensive experience for ease of operation and maintenance
Okiana also does water reclamation treatment including water transfer.

The process in high level:

1. **Primary Treatment**
2. **Secondary Treatment**
   - biological, oxidation & Disinfection
3. **Tertiary Treatment**
   - Chemicals for sedimentation, Filtration & Disinfection
4. **Desalination**
   - (for industry purposes) or Irrigation
Reservoirs Design

Purposes:

• Storm water accumulation
• Reclaim water storage for irrigation
• Well water storage for agriculture
• Waste water treatment
Typical process:

1. **Screening**
2. **Sedimentation**
   (usually with help of chemicals)
3. **Filtration**
4. **Pretreatment for further composite processes**
   (like desalination, irrigation and etc.)
Water Treatment Technologies

Process leading treatments:

- **Ultrafiltration (UF)** – very high level of filtration (up to 0.002 microns)
- **Reverse Osmosis (RO)** – Desalination process
- **Advanced Oxidation** – for dismantle hard molecules for cracking
- **Electro De-Ionization (EDI)** – Automatic Electro Dialysis process for using and regenerate Ion Exchange
Water Treatment
...and Finally
Desalination (RO)

For the following purposes:

• Irrigation Purpose

• Drinking water

• Industry: Power Station, Colling Tower, Process
  Examp. Power Station, Dairies, Food, Microelectronics, Pharmaceutical, Refineries

• Health: Hospitals, Dialysis
RO for Blueberries - Peru
RO in Industry
Desalination Sys. For Power Stations
RO for Diary
Energy recovery for Sea Water RO

- The desalination of sea water consumes very high energy.
- Advanced systems are in use in order to recover the energy and do the desalination process efficiently.
Projects- Example
The process consists of a physical separation with biological treatment allows liquid effluents to be used as irrigation water for corps and solids wastes as fertilizer.
- The anaerobic digesters accumulate the biogas generated during the fermentation.
- The cogeneration of electricity and heat with biogas produced generates electrical power.
Contact

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