



Seawater to drinking water,
Gold, Uranium etc.

Sea water treatment and processing plant

40" container



Sea water purification
RO reverse osmosis, ie
the membrane filtration technique.

Sea water filtration molecular level.

RO Container Unit:

- RO filters
- Transmission and high-pressure pumps
- The differential pressure generators
- The main drive control electronics
- Remote control / monitoring
- The filter membranes automatic Cleaning System





20" container

The pre-filter unit Seawater

The membrane consists of collection the four categories, which are intended for the separation of particles of different sizes fed into the liquid.

The container includes filters:

- Reverse osmosis (0,00001 μm)
- Nanofiltration (0,001 μm)
- Ultrafiltration (0,1 μm)
- Microfiltration (10 μm)

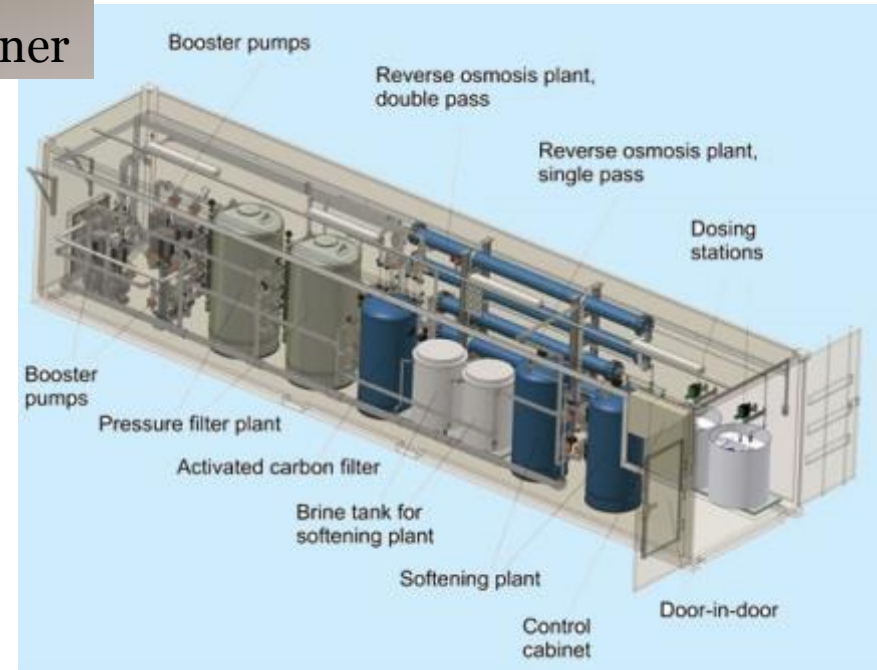




The pre-filter unit Waste water / gray water

- Pre-clarification
- Solid particle separation
- Aeration
- Sand filters
- Activated carbon filters

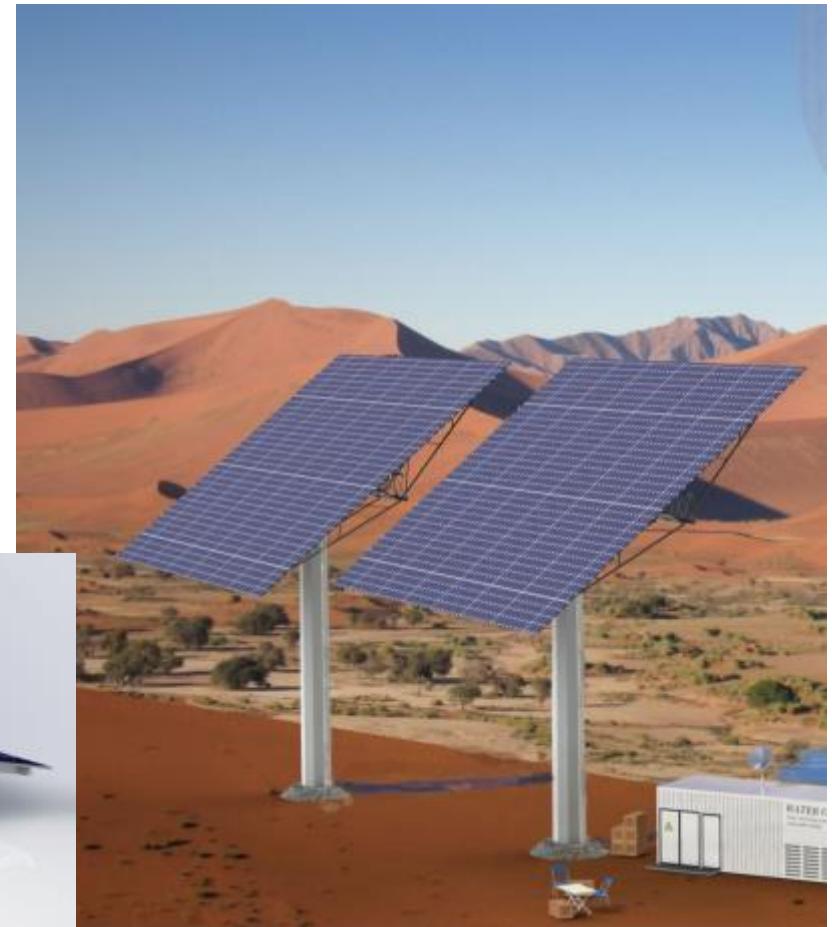
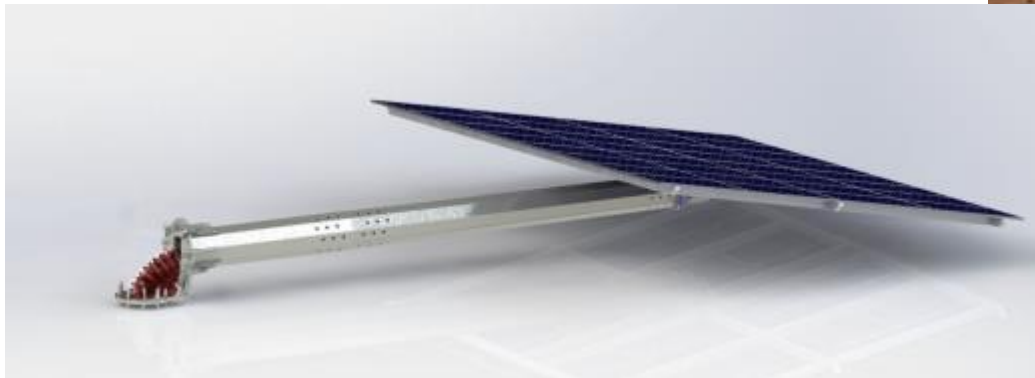
- Centrifuge (extractor filters)
- Reverse osmosis (0,00001 μm)
- Nanofiltration (0,001 μm)
- Ultrafiltration (0,1 μm)
- Microfiltration (10 μm)



Energy production

Solar Energy Tower

- Power 22 kW
- Solar tracking 360°
- Mast hydraulic lifting
- Storm protection
- Pneumatic automatic cleaning
- High-strength tower



Solar Energy Tower "tandem"

- Power 100-200 kW
- Solar tracking 270° tilt
- Mast hydraulic lifting
- Storm protection
- Pneumatic automatic cleaning
- High-strength tower



The battery bank / electronic container



Include:

- Renewable energy control units
- Charging units
- battery bank
- Cooled device area

Capacity 20 000 – 60 000 Ah

Battery options:

- AGM lead-acid batteries
- Nickel-cadmium battery (Ni-Cd)
- Nickel-metal hybrid (Ni-MH)
- Lithium iron phosphate (Li-)
- Zinc-air



20" container

Further processing plant

Leaking sea water fractions:

- Gold
- Uranium
- Natriumglorid
- Sodium
- Chlorine
- Sulfur
- Potassium
- Calcium
- Magnesium
- Sulphate
- Bromide
- Boric acid



Evaporation of NaCl Sodium chloride



Sodium chloride production from concentrated sea water

Energy self-sustained drinking water and mineral production plant

- 1 - Wind Energy tower 500 kW, 3 pcs
- 2 - Processing plant
- 3 - Filtration Unit
- 4 - RO-Unit 100 million liters drinking water / year, 2 pcs
- 5 - The battery bank / electronic containers
- 6 - Solar Energy towers 22 kW, 12 pcs
- 7 - NaCl evaporation field
- 8 - Tandem Solar Towers 100 kW, 6 pcs
- 9 - Sea

