



DISTILLED WATER PRODUCTION WITH 0.45 KWH PER M³

project teaser
22.11.2018

This document specifies a Desalination Greenhouse for the investors consideration. The IBTS, or Integrated Biotectural System was invented by German construction engineer Nicol-André Berdellé in 2007 and developed to marketability until 2018.

The IBTS is a versatile concept for large scale application in hot, arid deserts. It also is a specific type of new Greenhouse based on low investment modules – 2M \$US for 3 hectares for the planned demonstration site.

10km² match the landuse & water production of industrial desalination plants with **500.000m³ per day** of distillate. **Investment cost is 25%** of industrial plants.

- tent-shaped greenhouse turning the air inside into a potent water-source - harvested with a new condensator type - **0,45 kWh per m³** of distilled water - 4x better than the most efficient desalination technology to date
- multiple types of evaporation and condensation processes integrated with local climate outside and a design climate inside the greenhouse
- self-repairing roof designed to withstand duststorms and high UV degradation
- autonomous utility based on a smart combination of technologies and multiple engineering disciplines - windmill waterpumps, concentrated solar power, biogas
- food production based on mangroove ecosystem, agriculture and forestry - organic aquaculture-fish for the price of harvesting & processing, 240 t per year
- staff-housing and residences are part of the water- and energy scheme, yielding revenue from real-estate sale

"The IBTS is a cellular, living organism, reclaiming the desert without harmful side-effects"

