



DISTILLED WATER PRODUCTION WITH 0.45 KWH PER M³

project teaser
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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 2008 and developed to marketability until 2014.

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 - 1,2 million \$US for 3 hectares for the planned demonstration site.

10km², or 100 modules match the water production of an industrial desalination plant with 500.000m³ per day. **Investment cost** are **25% of industrial** plants.

a solution mosaic

- tent-shaped building turning the air inside the Greenhouse into a potent water-source, harvested with a new condensator type - **0,45 kWh/m³** of distilled water - this is 10% of the current efficiency world-record
- autonomous utility based on a smart combination of technologies and multiple engineering disciplines - windmill waterpumps, concentrated solar power, biogas from onsite production (water treatment and crop residue) - low tech & low risk
- farming system based on eco-systems or "multi-trophic" aquaculture, as well as agriculture and forestry > organic aquaculture-fish for the price of harvesting & processing only, 240 tons per year
- staff-housing and residences are part of the water- and energy scheme, yielding revenue from utility and real-estate management, or sale

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

