

- **Thermal distillation - desalination**
 - System design and the development of new types of stills, coupled with solar collectors and the modelling (simulation and experimental validation) of the systems developed.
 - Design of new, more efficient desalination units based on the humidification-dehumidification principle, use of micro-porous membranes.
 - Hybrid systems aiming at improvements of overall process efficiency through integration in a multi-source, multi-use environment.