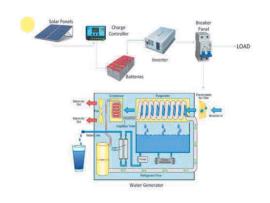


#### TransPacific Energy Renewable Technologies

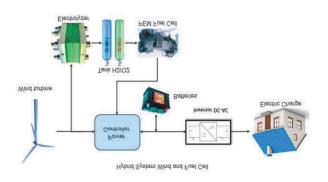
- PV Solar Panels
- PV-Thermal Solar
- CSP Solar Integrated ORC
- Geothermal Energy
- Biomass Energy
- Hybrid System for Remote Areas
- Solar Clean Water Generators
- Solar Lights
- Desalination by PV-Thermal
- Fuel Cell driven by Solar and Wind Energy for Hydrogen Production and Storage



### TransPacific Energy Renewable Energy Technologies











Photovoltaics - Technology



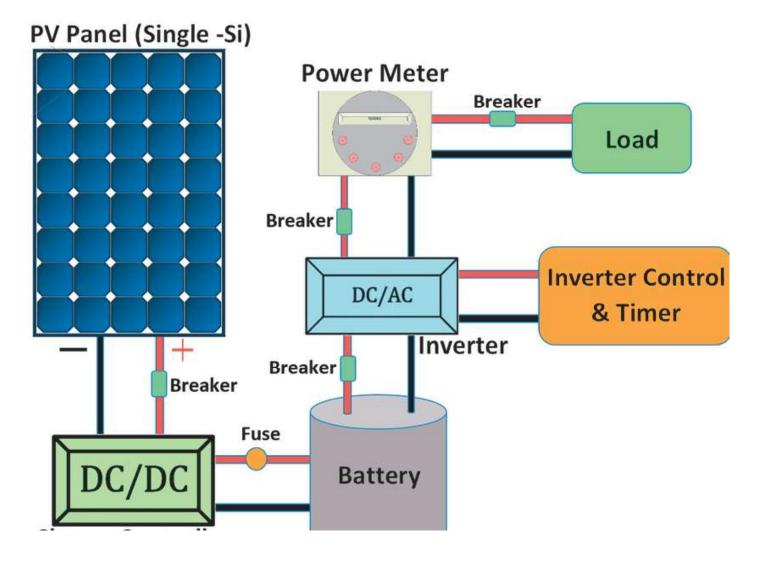


#### TransPacific Energy Solar Technology

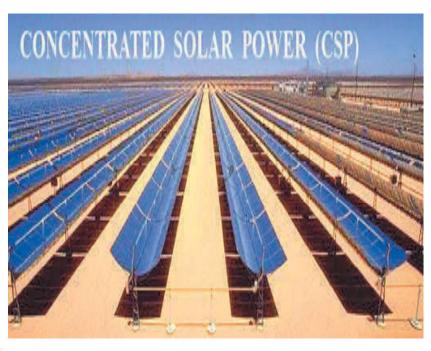
Photovoltaics - Technology

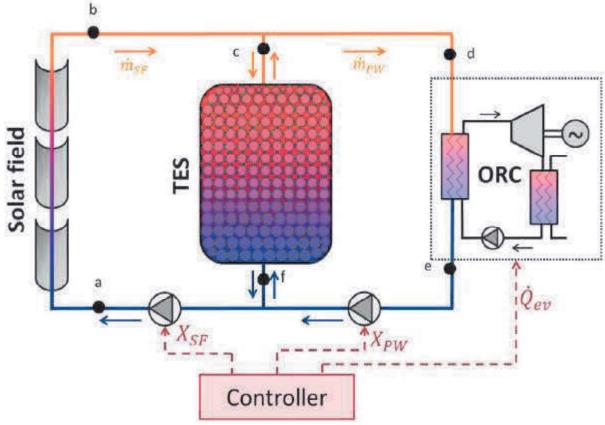


Using the sun to generate electricity



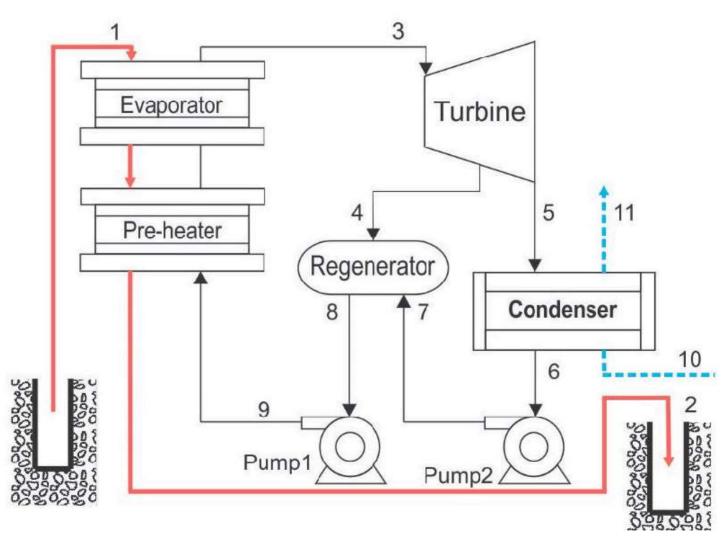
#### **CSP Integrated ORC Technology**





# TransPacific Energy Geothermal Technology

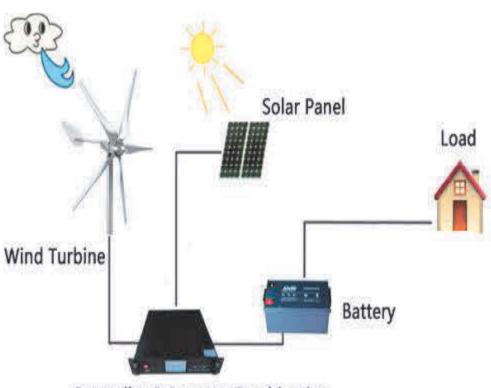




# Biomass Energy Power Generation

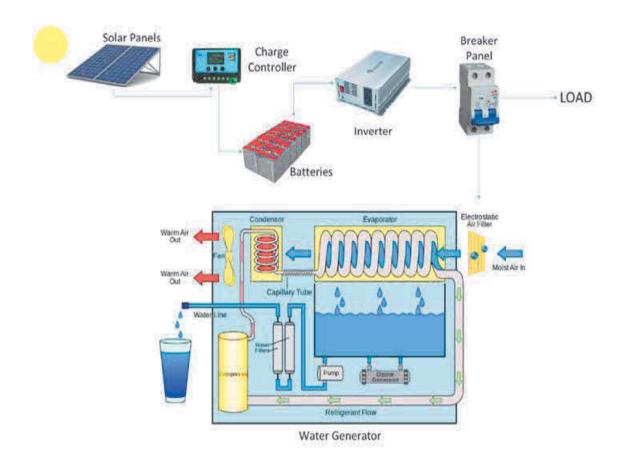


#### **TransPacific Energy Hybrid Technology**



Controller & Inverter Combination

## TransPacific Energy Solar Water Generator

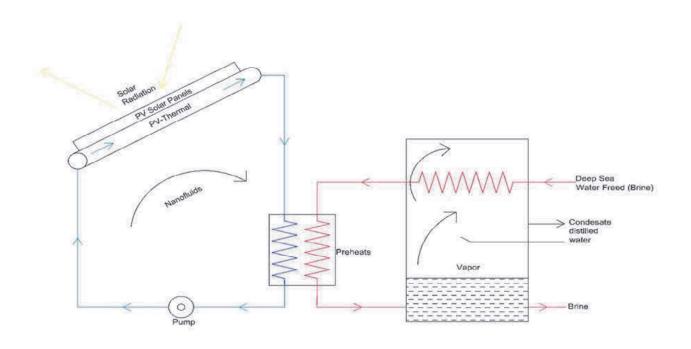


#### **TransPacific Energy Solar Lights**



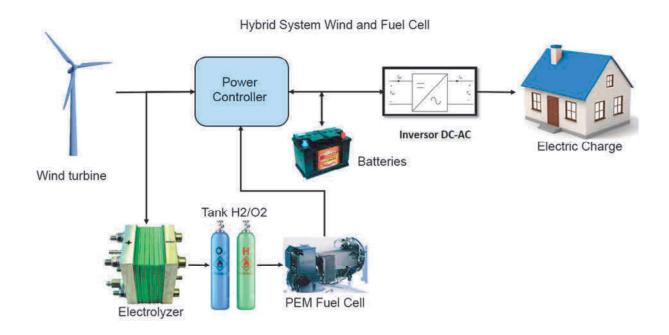


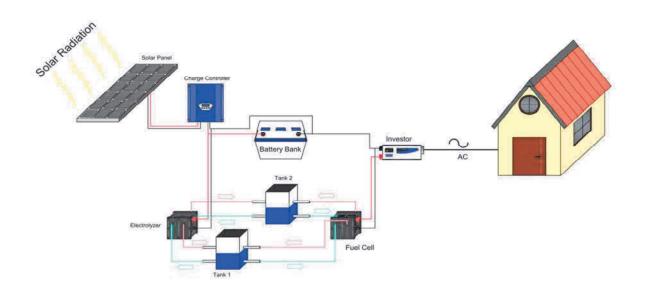
# TransPacific Energy Desalination With PV-Thermal





# Fuel Cell driven by Solar and Wind Energy for Hydrogen Production





#### **CPV** and Hydrogen Production Concentrated Solar Electrolysis Power Stack Collector sunlight Heat Exchanger **Solar Energy** Hydrogen as Fuel, **Electrical** Oxygen for Ozone Generation for Load **Compact CPV Unit**

#### CPV Module

- **1.** Optics e.g. Lens, Reflector, Homogeniser
- 2. Solar Cell, Highest efficiency Multi-junction Solar Cell (MJC)

#### Two-Axis Solar Tracker

- 1. Optical Tracing
- 2. Passive Tracking
- 3. Control Circuit
- **4.** Mechanical Structure and Driving Assembly

To eliminate the installation limitation of conventional gigantic CPV system, at rooftop of residential and commercial buildings in urban region, for common consumers.

# Electricity Hydrogen Generation/Utilization Electrolyser and Fuel Cell Hydrogen Supply Back to Fuel Cell

**Hydrogen Storage** 

#### **Application & Core Benefits**

- Technology: CPV Hydrogen Plant is more efficient than any other existing Renewable Technologies.
- The overall energy efficiency of the Solar Hydrogen Plant is 28%.
- Economical: The lowest LCOH cost (1.38/kg H2) in the Hydrogen industry (SMR \$2.08/kg)
- It can produce Electricity Levelized Cost of Electricity (LCOE) \$0.021/kWh