

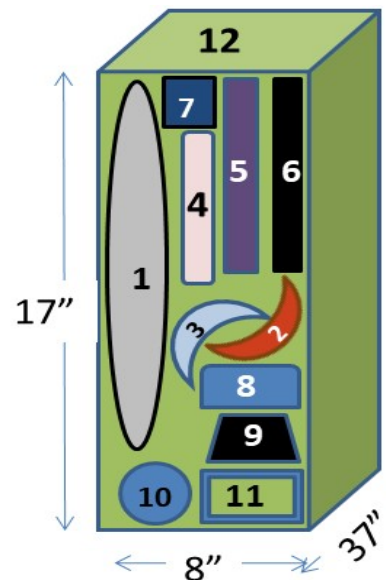


Solar Energy Concentration for Advanced Distillation (SECAD) System



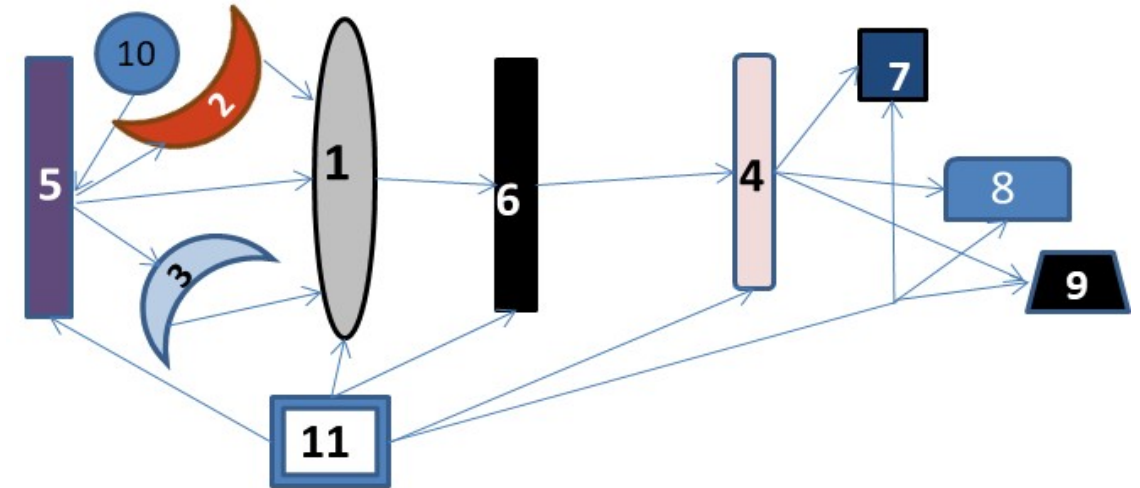
Desirable Features:

- 1) Total cost of system: **\$2500/KW**
- 2) The shippable package by IATA Baggage Standard
- 3) Foldable Simpler Assembly Design and Scalable
- 4) Nearly maintenance-free
- 5) Heat storage capable for off-sun hours
- 6) Safety and energy is managed by smart electronics



Component #	Description
1	Composite Trough Mirrors
2	Composite Seawater Pre-heater
3	Chiller for Steam and Water
4	Composite Convection Controller
5	Structure Assembly Components
6	Distiller Energy Collector
7	Small Solar Panel
8	Electronics for Data Communication
9	Energy and Data Storage
10	Roller Wheel System
11	Assembly Tools and Connectors
12	SECAD in Portable Box

Simple Assemble and Setup Method:



NREL reported LCOE of Trough system: **\$6450/KW**
 The Return on Investment (ROI): **30 Years**

SECAD's LCOE: \$2500/KW
Also The ROI: 7 Years Only!