COST PERSPECTIVES OF CSP

Strategic options: solar only, hybrid or co-generation

- Solar Spain
- Hybrid Morocco
- Power & Water Egypt

Conventional intermediate load range
Base load range
Electricity Cost of CSP-Plants for different environments and applications. Costs are reduced by R&D, economies of scale and by increasing operating hours through thermal energy storage. **Solar Spain**: Solar electricity generation in Spain, Solar Share = 100%, Direct Normal Irradiation DNI = 1900 – 2200 kWh/m²y, Capacity Factor CF = 20 % - 50 %, **Hybrid Morocco**: Hybrid electricity generation in Morocco (solar share = 25 % - 75 %, DNI = 2200 – 2500 kWh/m²y, CF = 40 % - 75%), **Power & Water Egypt**: Hybrid co-generation of power and desalinated water in Egypt (solar share = 25 % - 75 %, DNI = 2500 - 2850 kWh/m²y, CF = 85 %, revenue for desalted water = 1 Euro/m³). 

**General economic assumptions**: discount rate 8 %, plant life 25 years, fuel cost 2 - 4 Euro/GJ, escalation 0.5 %/y (Source: DLR)