

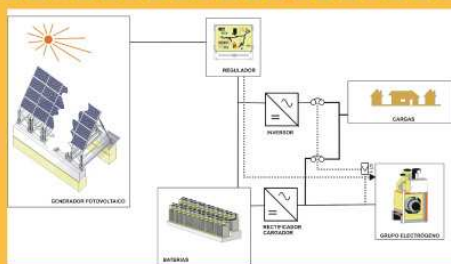
PV Rural Electrification Projects

Cases of study: Morocco and Senegal

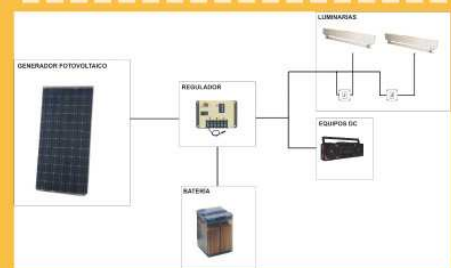
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	Morocco	Senegal		
Type:	SHS	SHS	Centralized	Centralized
Promoter:	ONE	ASER	IES-Tichka	PSNES
Power:	75 Wp	50 Wp	10 kWp	100 – 80 -10 kWp
Number:	35000	10000	2	3
Status:	On going	In operation	In operation	In operation
Operator	System Supplier	Concessionary	Local Association	Utility
Tariff:	Fixed	Fixed	Progressive f (consumption)	Fixed f (consumption)

Solar Home Systems



Centralized System



Technical Aspects

- Higher Efficiency Technology
- Higher Reliability
- Bigger Global Sizing
- Higher systems investment Cost
- Indoor distribution grid = f(dwelling size)
- Standard distribution network
- Back-up system availability
- Sizing system optimization
- Lower System investment Cost
- Ac Network = f (village topology)

O&M

- Reduced Dc Appliances Market
- High cost consumption devices
- Simple Maintenance
- Lower impact of system default
- User manages the Consumption of energy
- Wide Appliances Market
- Lower Cost Consumption Devices
- Professional Maintenance
- Higher Impact of System Default
- Charge equalization
- Better Control of System Operation
- Productive uses availability

Social Aspects

- Final User training required
 - Consumption patterns
 - Preventive Maintenance
- Standardization design mismatch user requirements
- User higher responsibility
- Less robbery incidence
- Fixed Tariff = f (system)
- Energy dispatching strategies required
- Load Control required
- High social organization required
- Surveillance required
- Tariff strategies = f (individual consumption)



10 kWp Centralized System - Ekbourtir - Morocco



10 kWp Centralized System - Herd - Morocco



SHS

