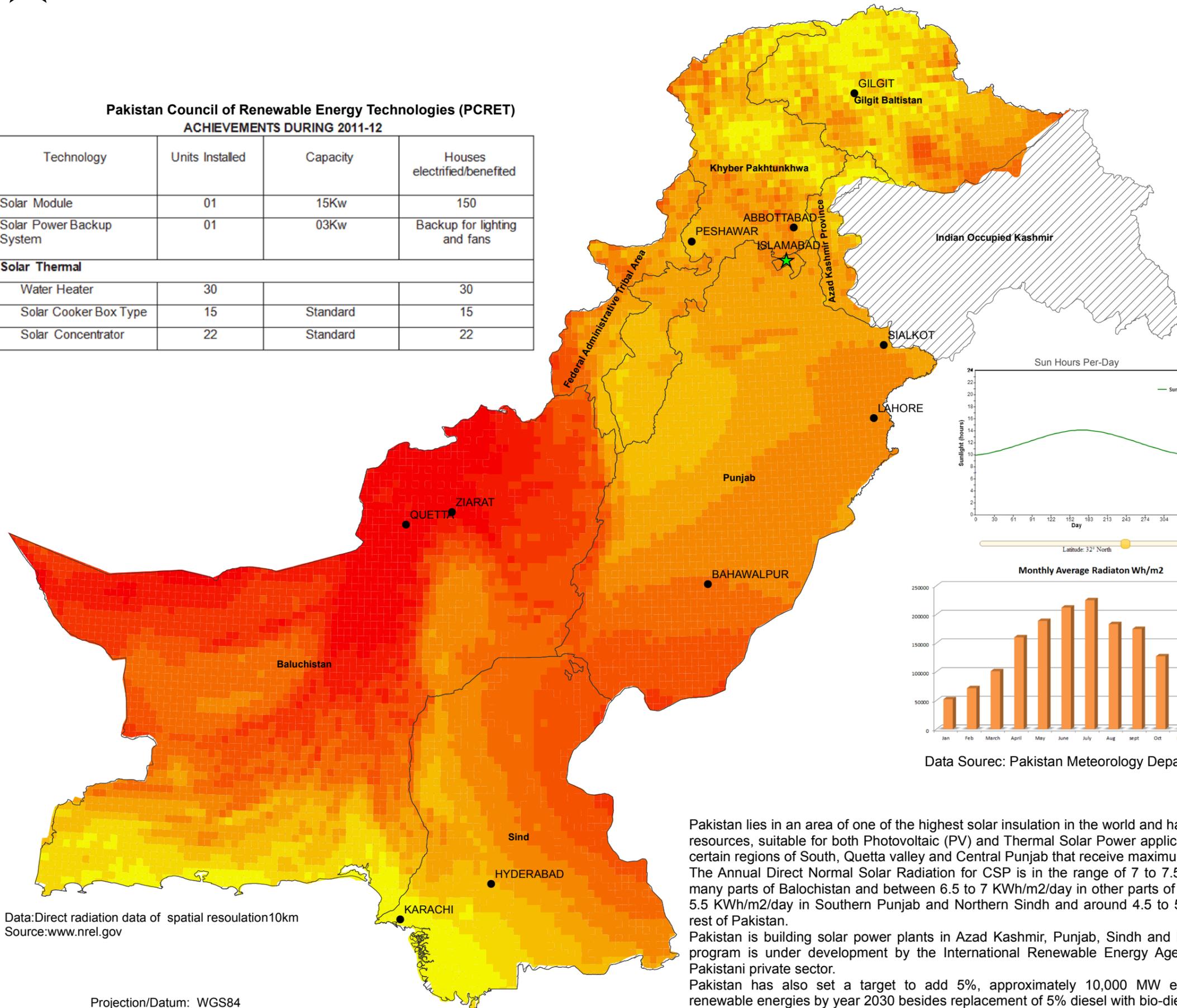




Solar Radiation Map-Pakistan

Pakistan Council of Renewable Energy Technologies (PCRET) ACHIEVEMENTS DURING 2011-12

Technology	Units Installed	Capacity	Houses electrified/benefited
Solar Module	01	15Kw	150
Solar Power Backup System	01	03Kw	Backup for lighting and fans
Solar Thermal			
Water Heater	30		30
Solar Cooker Box Type	15	Standard	15
Solar Concentrator	22	Standard	22

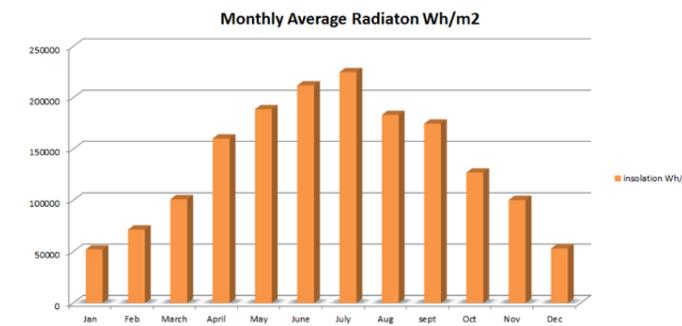
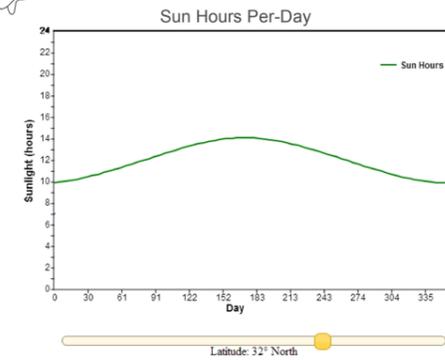
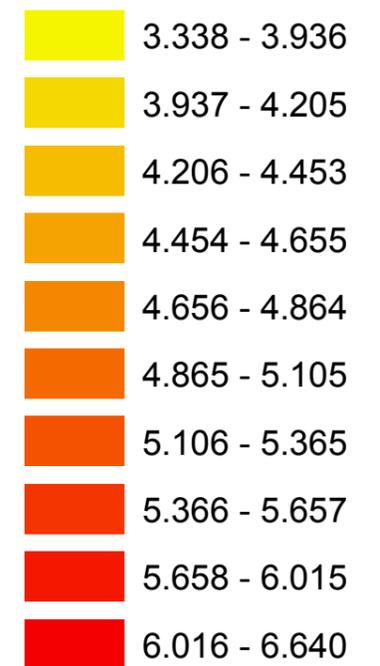


Legend

- ★ Capital
- Major Cities
- Province/Region Boundary

Annual Direct Radiation

KWh/m²/day



Data Source: Pakistan Meteorology Department

Data: Direct radiation data of spatial resolution 10km
Source: www.nrel.gov

Projection/Datum: WGS84



Pakistan lies in an area of one of the highest solar insolation in the world and has immense solar resources, suitable for both Photovoltaic (PV) and Thermal Solar Power applications. There are certain regions of South, Quetta valley and Central Punjab that receive maximum solar radiation. The Annual Direct Normal Solar Radiation for CSP is in the range of 7 to 7.5 KWh/m²/day in many parts of Balochistan and between 6.5 to 7 KWh/m²/day in other parts of Balochistan. 5 to 5.5 KWh/m²/day in Southern Punjab and Northern Sindh and around 4.5 to 5 KWh/m²/day in rest of Pakistan.

Pakistan is building solar power plants in Azad Kashmir, Punjab, Sindh and Balochistan. The program is under development by the International Renewable Energy Agency, China, and Pakistani private sector.

Pakistan has also set a target to add 5%, approximately 10,000 MW electricity through renewable energies by year 2030 besides replacement of 5% diesel with bio-diesel by year 2015 and 10% by 2025



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