

Solar Energy Potential in Governmental Schools in the Gaza Strip

Governmental Schools by Priority

7 AFFORDABLE AND CLEAN ENERGY



Mediterranean Sea

Map Legend

- First Priority: Two-shifts school (116)
- Second Priority: One-shift secondary school (76)
- Third Priority: One-shift primary school (58)
- School needs only Energy Efficiency (EE) (41)
- Regional Roads
- City
- Camps



Jamal Abdel Naser secondary school, with 45 kWp installed PV system

Current Situation

291 school buildings serving **409** Schools in the Gaza Strip

100% school buildings fit for installation of solar PV systems

41 school buildings serving **51** schools with solar system to operate the school facilities energy.

1,530 kWp installed in **116** schools

Solar Energy Potential

250 school buildings serving **358** schools need **6.053** MWp securing the full energy needs based on 25 kWp average load for each school.

The roof tops PV capacity will be able to cover 100% of total schools' energy needs and can accommodate more PV solar systems.

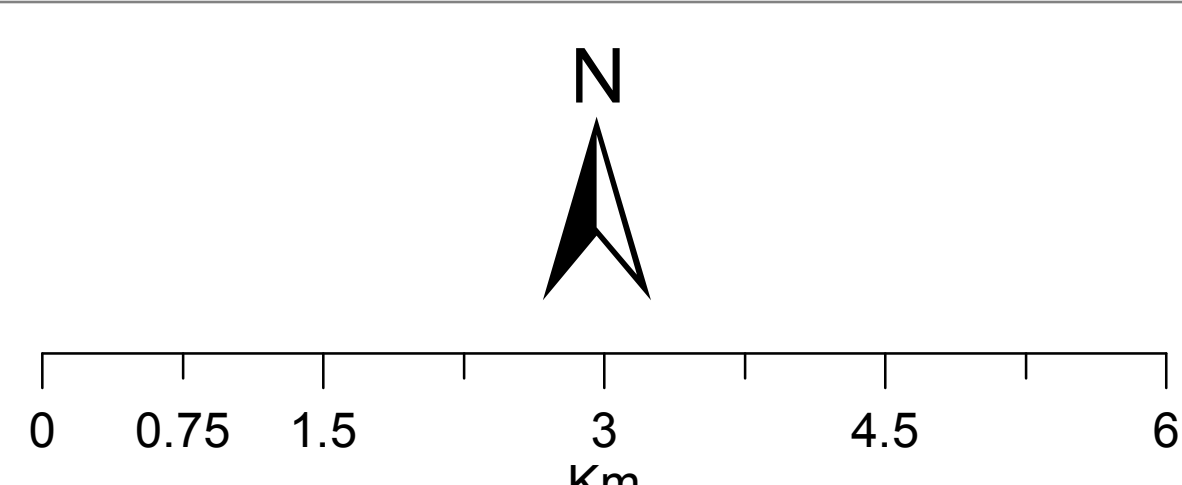
Financial Feasibility

US\$ 22.15 Million
Investment costs of solar energy in governmental schools including energy efficiency

US\$ 1.836 Million
Annual savings for governmental schools

12 years payback period for governmental schools

Disclaimer:
The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the United Nations.



Map produced by Infrastructure Team, UNDP/PAPP.

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Map Data Sources: UNDP and OCHA