Solar Energy Potential in Governmental Schools in the Gaza Strip

Governmental Schools by Priority

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

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 KwP 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

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