

# 13. SOLAR ROOFTOP IN NDMC BUILDINGS – NDMC

*“70% of total energy derived from renewable sources by 2025”*

– Aspiration of the city, as expressed in the Smart City Proposal (SCP) for NDMC

## CONTEXT

Delhi is the capital city of India and one of most populous cities of the world with a population of 21.75 million according to 2011 census. NDMC is the municipal council for the central Delhi area, which also substantially, houses the central government/ ministries. NDMC covers an area of 43.7 square kilometer. Apart from being the central government hub, NDMC area also has one of the most significant Central Business District (CBD) of the city.

One of the major components of Smart City initiative, which NDMC is part of, is to reduce the dependence of cities on non-renewable energy resources and shift toward use of renewable energy resources. Solar energy and energy efficient and green buildings have been prescribed as a focus for Smart Cities' energy requirement management.



Solar Rooftop installed on a NDMC School building

## THE INTERVENTION

### Project description

NDMC has recently started implementing solar rooftops for harnessing solar power in municipal buildings; grid-connected roof top solar power has been installations on multiple government/ public buildings in NDMC area.

### Key outputs/ outcomes

Solar power installations of aggregate capacity of 1,495 kWp have been installed on 28 different government buildings in NDMC area.

### Impacts

Following were the immediate impacts upon installation of solar rooftops:

- Reduced the dependency on conventional source of power.
- Reduced carbon emission contributing to reduced environmental pollution.
- Cost cutting for government office with respect to power bills.

### Support and mobilized resources

The total cost incurred for installing the solar power capacity was INR 93,908,425. The funding is through a mix of RESCO and Capex model. According to the policy, the project has also received 30 percent capital subsidy from the Ministry of New and Renewable Energy.

