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Building Boom!

In early 20th century, 80% of the world's people lived in rural areas.

By 2010, humanity had become 50% urbanized, and the rate of urbanization is accelerating

By 2050, 70% of the world's population will be living in urban centers.

Urbanization has resulted in a **building boom!**

Modern buildings are **energy guzzlers** (for climate control, lighting, water, sanitation, telecom etc).



Unsustainable ever growing consumption of non-renewable energy

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Possible solutions

Self-reliant buildings:

Meeting energy needs through installation of small plants at roof top or in building compound.

Technology enablers:

The future is to develop smart buildings that optimize use of multiple energy sources



Green Buildings

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Possible solutions

Micro-grid/Mini-grid models :

Reliable and sustainable solutions to electrify urban communities, colonies .

Procurement of renewable energy :

Opt to procure clean and affordable from renewable power producers



Communities for Green Living

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Why Solar ?

Distributed Generation:

Can be installed anywhere and of any size

Favourable Policy incentives :

80% depreciation on installed assets and
Capital subsidy up-to 30% of Project cost

Visibility on Future Energy Prices :

- No fossil fuel price uncertainties
- No abrupt price changes by SEBs
- Price locked up for long term



Cost of energy at a sustainable low (Over 30% drop in price in last two years)

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Solar roof top: a business case

Best for:

Commercial establishment like a mall, warehouse, industrial shed, educational institutes, hospitals or even a large residential roof top

Estimate of Capacity per unit area:

- 1 KW requires 10 square meter of shadow free area
- Typical installed capacities range from 100 KW to 1000 KW



Affordable and clean energy alternate for any building

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Solar roof top: a business case continued.....

Expected Generation:

Typically a 1000 KW solar project generates about 1.5 million units of electricity in a year.

Low operating and maintenance cost:

Requires minimal maintenance and has no operating cost.

Pay Back:

Project can have the payback from 3 years to 6 years depending upon the incentives. After this period, solar energy is *virtually free!*



Go Green!

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Thank You



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