**Solar energy as power resource**

**Topic: Analyze the feasibility of shift from non renewable to renewable (solar) source of energy**

**Input Data**

* Power consumption in different countries with respect to population density.
* Expense incurred because of coal import for different countries.
* Sun light exposure (duration for which sunlight is available in a day)
* Solar panel cost. Ratio of government fund to solar panel cost for different countries.
* availability of material required for solar panel and ‘need’ of solar energy for a region/country

**Analysis**

* How profitable will it be to replace existing energy resource with solar energy.
* Where is it going to be profitable to transform energy generation systems (coal energy) to solar system.
* Commercial usage and domestic usage
* Tradeoff between installation cost and efficiency of photovoltaic solar panel and reflector solar panel.