SOLAR POWER SYSTEM

It is estimated that the solar potential in Nigeria ranges between 4.0 -6.5 kWh/m2/day or an average of 5 peak sun hour per day. The northern parts of Nigeria with latitude 10oN have been identified as having potential for solar power plants. The absence of large bodies of water for cooling and attendant cost could limit the adoption of this technology. 1% of the Nigerian land mass has the potential to generate 500GW of electricity in the following solar power sub sectors.

The Solar Power System is a function of the following sub-sector choices with levels (1-4) selection:

- **Grid Solar Photo Voltaic (PV) For Electricity**
  Choice levels 1 2 3 4
- **Stand Alone Solar Photo Voltaic (PV) For Electricity**
  Choice levels 1 2 3 4
- **Concentrated Solar Power**
  Choice levels 1 2 3 4