

**GOVERNMENT OF INDIA
DEFENCE
LOK SABHA**

UNSTARRED QUESTION NO:7186
ANSWERED ON:21.05.2012
ENERGY EFFICIENCY IN CANTONMENTS
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Will the Minister of DEFENCE be pleased to state:

- (a) whether the armed forces have taken a major initiative towards adopting energy efficiency and conservation in operations and cantonment complexes;
- (b) if so, the details thereof, State-wise including Haryana;
- (c) the aims and objectives of such initiative; and
- (d) the funds allocated to each State in this regard?

Answer

MINISTER OF DEFENCE (SHRI A.K. ANTONY)

(a) & (b): An integrated energy efficiency improvement programme has been launched by Defence Services since 2007. The details / initiatives are as per Appendix-I.

(c) The aims and objectives of such initiative are as under:-

- (i) To enhance Energy Security of the nation;
- (ii) Implementation of Energy Conservation Building Code (ECBC) norms;
- (iii) Reduce consumption of power in existing buildings and machineries;
- (iv) Ensuring better quality of life for troops and sailors in far-flung areas;
- (v) Use of renewable energy sources to reduce dependence on conventional methods of power generation using fossil fuels;
- (vi) Energy audits to reduce wastage and losses in consumption.

(d) The expenditure on energy efficient products is met out of funds allocated to defence works for construction and maintenance & operation of defence assets in different Commands. No separate allotment is made to States as functioning is regulated by different services and respective Command in each service viz. Army, Air Force & Navy.

APPENDIX-I REFERRED IN THE REPLY GIVEN IN PARTS (a) & (b) OF LOK SABHA UNSTARRED QUESTION NO. 7186 FOR ANSWER ON 21.5.2012

Details / initiatives being taken for adoption of energy efficiency products as under:-

(a) Road Map for adoption of Energy Efficiency and Conservation: An Inter Services Working Group (ISWG) has been formed to formulate policy directions and monitor use of new and renewable energy sources in Defence Sector.

(b) Solar Photo Voltaic Plant: 1.5 MW Solar Photo Voltaic plant is proposed at four locations as under:-

(aa) Leh - 400 KW

(bb) Karu - 400 KW

(cc) Partapur - 400 KW

(dd) Khumbathang - 300 KW

(c) Utilisation of Energy Conservation Products / Technologies: Following initiatives have been taken:-

(i) Energy Audits are being carried out for defence buildings specially those consuming large chunk of energy.

(ii) Use of composite fluorescent lamp (CFL).

(iii) Use of solar water heaters.

(iv) Use of solar streetlights.

(v) Rainwater harvesting is increasingly being incorporated in defence buildings.

(vi) Inclusion of following new products in defence works:-

(aa) Solar cooking systems.

(bb) Solar powered traffic lights.

(cc) Solar space heating.

(dd) Solar drying systems.

(d) Reduction in use of Ozone Depleting Substances (ODS): Chloro Fluoro Carbon (CFC) based refrigeration and air-conditioning equipments are being phased out. Once unserviceable and due for replacement, these are being replaced with Hydro Chloro Fluoro Carbon (HCFC) based equipments.

(e) Green Building: Green Building features are being adopted in various construction projects.