

**Fall in demand of electricity consumption**

1744. SHRIMATI WANSUK SYIEM: Will the Minister of POWER be pleased to state:

(a) whether the power generation in the country fell 12.7 per cent year-on-year, in October recording a third straight month when power generated was less than the corresponding year-ago month;

(b) whether Government would attribute the fall in demand to extended monsoons this year since electricity cannot be stored and generation being the most robust indicator of consumption of trends; and

(c) whether the lower generation in October could also be due to an all-time low Plant Load Factor (PLF) of 51.1 percent of coal plants stressed for adequate demand and coal supply issues?

THE MINISTER OF STATE OF THE MINISTRY OF POWER (SHRI RAJ KUMAR SINGH): (a) to (c) Yes, Sir. The details of growth in generation during three months *i.e.* August to October 2019 are given in the Statement (*See* below). The electricity generated was 0.4% higher in August 2019 with respect to August 2018. There was reduction of around 2.9% and 12.88% during September 2019 and October 2019 respectively with respect to the same months last year. The lower generation was mainly due to favourable weather condition due to prolonged rainy season and good rainfall which led to reduction in demand in Agriculture sector and reduction in cooling requirement in domestic and commercial sectors.

During the current year 2019-20 (upto October, 2019), there has been 16% growth in generation from Hydro and around 22% growth in hydro power imported from Bhutan. There has also been 27% growth in generation from Nuclear power plants and 24% growth in generation from Solar. The share of green power *i.e.* generation from Non-fossil Fuel has been around 27.3%. Thus, the reduction in overall generation was not attributable to the lower plant load factor (PLF) of thermal generation rather we have been able to change the energy mix in order to reduce our Carbon footprint.

***Statement******Generation Performance during August to October, 2019***

Period	Generation during 2019-20 (MU)	Generation during 2018-19 (MU)	Growth (%)
August	106,200	105,793	0.39
September	105,195	108,328	-2.89
October	98,887	113,507	-12.88
April-October	757,946	749,314	1.15

**Patents filed by Indian Scientific Organisations**

1745. DR. SASMIT PATRA: Will the Minister of SCIENCE AND TECHNOLOGY be pleased to state:

(a) the number of patents that have been filed by Indian Scientific Organisations/Institutions and how many have been granted over the past ten years, year-wise and organisation/institution-wise;

(b) the number of scientists/researchers who have been employed by Indian Scientific Organisations/Institutions presently and the total expenditure towards them, year-wise and organisation/ institution-wise; and

(c) the plans to improve the scientific research and development in India with special focus on innovation?

THE MINISTER OF SCIENCE AND TECHNOLOGY (DR. HARSH VARDHAN):

(a) The details on the number of patents that have been filed by Indian Scientific Organisations/ Institutions and how may have been granted over the past ten years, year-wise and organization/institution-wise are given in Statement-I (*See below*). (SOURCE : Controller General of Patent Design and Trade Marks, Mumbai).

(b) The number of Scientists/researchers who have been presently employed by the autonomous institutions of the three constituent Scientific Departments of the Ministry of Science and Technology *i.e.* Department of Science and Technology (DST), Department of Scientific and Industrial Research (DSIR) and Department of Bio-