GOVERNMENT OF INDIA
MINISTRY OF POWER
RAJYA SABHA
UNSTARRED QUESTION NO.1110
ANSWERED ON 26.07.2022

ELECTRICITY GENERATION FROM VARIOUS SOURCES

1110 DR. ASHOK KUMAR MITTAL:

Will the Minister of **POWER**
be pleased to state:

(a) the details of the percentage of electricity generated from various sources such as coal, hydel, thermal and renewable energy in the last three years;

(b) whether use of electricity generated from coal increases pollution, if so, the details thereof;

(c) whether Government is contemplating to take any step to minimize pollution; and

(d) if so, the details thereof and if not, the reasons therefor?

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) : The details of the percentage of electricity generated from sources such as Thermal, Nuclear, Hydro and Renewable sources in the country during the last three years and current year (up to June, 2022) are given at **Annexure.**

(b) to (d) : The flue gases from combustion of the coal in the power plants contain carbon dioxide and water vapor, as well as other gases such as nitrogen oxides (NOx), sulfur oxides (SOx), mercury, and particulate matter.

Ministry of Environment, Forest and Climate Change (MoEF&CC) vide gazette notification dated 07.12.2015 has introduced environmental standards including SO_2, NOx and Mercury etc. for coal-based TPPs under amendment to the Environment (Protection) Rules 1986. Further, MoEF&CC vide gazette notification dated 31.03.2021 categorized thermal power plants in three categories having different timelines along with the penalty for non-compliance.

The Pollution Control Boards take necessary action against non-compliant plants.

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ANNEXURE

ANNEXURE REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 1110 ANSWERED IN THE RAJYA SABHA ON 26.07.2022

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The details of the percentage of electricity generated from sources such as Thermal (coal, lignite, gas etc.), Nuclear, Hydro and Renewable sources in the country during the last three years and current year (up to June, 2022)

Category	**Fuel**	**2019-20**		**2020-21**		**2021-22**		**2022-23 (up to June)***	
		Generation (MU)	**% of share**	**Generation (MU)**	**% of share**	**Generation (MU)**	**% of share**	**Generation (MU)**	**% of share**
THERMAL	COAL	961218.2	69.2	950937.6	68.8	1041487.4	69.8	307947.5	71.4
	LIGNITE	32978.8	2.4	30505.7	2.2	37094.0	2.5	10130.1	2.4
	NATURAL GAS	48442.6	3.5	50944.0	3.7	36015.7	2.4	7515.5	1.7
	DIESEL	108.2	0.0	126.3	0.0	117.2	0.0	31.8	0.0
Total THERMAL		1042747.9	75.1	1032513.5	74.7	1114714.4	74.7	325625.0	75.5
NUCLEAR		46472.5	3.3	43029.1	3.1	47112.1	3.2	10860.1	2.5
HYDRO		155769.1	11.2	150299.5	10.9	151627.3	10.2	38271.5	8.9
Renewable (other than large hydro)		138337.0	10.0	147247.5	10.7	170912.3	11.5	54587.6	12.7

*** Tentative**

Note: Gross Generation from Renewable sources (Wind, Solar, Biomass, bagasses, Small Hydro and Others)

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