

**GOVERNMENT OF INDIA  
MINISTRY OF COMMUNICATIONS  
DEPARTMENT OF TELECOMMUNICATIONS**

**RAJYA SABHA  
UNSTARRED QUESTION NO. 376  
TO BE ANSWERED ON 4<sup>TH</sup> FEBRUARY, 2022**

**ROLE OF 5G FOR MORE EFFICIENCY**

**376 SHRI N.R. ELANGO:**

Will the Minister of Communications be pleased to state:

- (a) whether Government agrees with the view that by enabling the deployment of sophisticated AI and IoT networks at scale, 5G would make electrical grids more efficient, drive significant reductions in greenhouse emissions as well as enable and optimise the integration of greater amounts of renewable energy;
- (b) if so, the initiatives that are proposed to be taken by Government in this regard; and
- (c) if not, the reasons therefor?

ANSWER

**MINISTER OF STATE FOR COMMUNICATIONS  
(SHRI DEVUSINH CHAUHAN)**

- (a) 5G Technologies along with other Information and Communications Technologies (ICTs) including AI & IoT are reported to offer relevant usecases beneficial in different sectors, including electric grids.
- (b) Initiatives taken by Government in this regard:
  - i. 5G technology trials have already begun in the country.
  - ii. Department of Telecommunications (DoT)-funded indigenous 5G test bed has been developed for enabling testing of 5G usecases in an ongoing manner.
  - iii. DoT hosted a national 5G hackathon, to catalyse Indian Startup and Innovation ecosystem in 5G use cases.
  - iv. Giving fillip to usecases development using 5G technology and other ICTs, DoT has constituted an Inter-Ministerial Committee on 23<sup>rd</sup> November 2021, comprising representatives of key vertical Ministries including Ministry of Power. A white paper on 5G usecases has been developed and circulated to Ministries and Departments for wider dissemination.
  - v. The above initiatives have enabled Ministries/Departments, Academia and Industry including start-ups in the development of relevant use cases using 5G technologies.
- (c) Not applicable in view of (b) above.

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