

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
RAJYA SABHA
UNSTARRED QUESTION NO. 1097
ANSWERED ON 09.12.2025

HARNESSING OF GEOTHERMAL ENERGY

1097. SHRI PRAMOD TIWARI

Will the MINISTER OF NEW & RENEWABLE ENERGY be pleased to state:

- (a) whether Government is exploring technology partnerships with a number of countries to develop the country's geothermal energy sector;
- (b) if so, the details thereof;
- (c) the estimated potential of geothermal energy in the country;
- (d) whether the Geological Survey of India has mapped a number of hot springs across the country;
- (e) if so, the details thereof including the road map chalked out for their exploration and development; and
- (f) the efforts being made to utilise geothermal energy from the existing oil and gas wells?

ANSWER

THE MINISTER OF STATE FOR NEW & RENEWABLE ENERGY AND POWER

(SHRI SHRIPAD YESSO NAIK)

(a) & (b) Yes. The recently issued 'National Policy on Geothermal Energy' (notified on 15th September 2025), encourages bilateral and multilateral technology partnerships, knowledge transfer, and joint R&D to leverage international expertise and proven Geothermal Technologies for Indian conditions.

Ministry of New and Renewable Energy has cooperation mechanism with Australia, Iceland, Saudi Arabia and United States of America in the geothermal energy sector.

(c) Based on the Geothermal Atlas (2022) issued by Geological Survey of India (GSI), India's estimated theoretical geothermal resource potential is approximately 10,600 MW.

(d) & (e) The Geological Survey of India (GSI) has mapped and documented 381 no. of hot springs across India. Based on the studies, 42 geothermal manifestations have been identified as promising areas for harnessing geothermal power and direct heat applications. These 42 sites have been mentioned in the 'National Policy on Geothermal Energy' notified by MNRE as potential sites for further exploration and development.

(f) The National Policy on Geothermal Energy explicitly recognises the potential for repurposing abandoned oil & gas wells for geothermal energy recovery. The Policy provides for technical guidance, pilot demonstrations, and regulatory facilitation to enable conversion of suitable wells to geothermal production in oilfields. As a part of pilot initiative, an R&D project has been sanctioned to IIT Madras for exploration of Geothermal Energy in abandoned Oil wells.
