

GOVERNMENT OF INDIA
MINISTRY OF PETROLEUM & NATURAL GAS
RAJYA SABHA
UNSTARRED QUESTION NO. - 1255
ANSWERED ON- 10/03/2025

RENEWABLE ENERGY PROJECTS UNDER ONGC

1255. SHRI GOLLA BABURAO:

SHRI AYODHYA RAMI REDDY ALLA:

Will the Minister of PETROLEUM AND NATURAL GAS be pleased to state:

- (a) the details of progress made by ONGC Energy Centre (OEC) regarding harnessing geothermal energy at Puga and Chumathang geothermal sites of Ladakh;
- (b) the details of progress made by ONGC in terms of utilizing geothermal energy at the Gandhar oil field of ONGC Ankleshwar Asset, Gujarat;
- (c) the particulars of the progress made by ONGC on utilizing kinetic hydropower to meet country's growing energy needs;
- (d) whether the ONGC has a blueprint for investing and harnessing geothermal and ocean energy in line with the goal of reducing carbon emissions by 50 per cent by 2030; and
- (e) if so, the details thereof?

ANSWER

THE MINISTER OF STATE IN THE MINISTRY OF PETROLEUM AND NATURAL GAS
(SHRI SURESH GOPI)

- (a) ONGC Energy Centre (OEC) has taken up Geothermal Field Development project at Ladakh. The project has been divided into three phases namely Pilot, Demonstration & Commercialization. The Geothermal Drilling Campaign of drilling one well under the Pilot phase has been taken up. Drilling operations have subsequently been suspended on October 10, 2024 due to inclement weather conditions.
- (b) OEC has identified a few suitable abandoned oil and gas wells in the Gandhar region of Cambay Basin for geothermal energy development. Two wells have been shortlisted as a producer-injector combination wells. Geothermal testing in one of the wells has confirmed its suitability as an injector.
- (c) An R&D project by OEC was taken up in collaboration with Indian Institute of Technology, Roorkee to develop a prototype of Wave Energy Converter for efficient conversion of wave energy to electrical energy. Based on the results achieved, the patent

titled “Trapezoidal with Fin as Float Design of Point Absorber Wave Energy Converter” was granted in 2023 by the Controller of Patents to OEC Trust and IIT, Roorkee.

(d) & (e) ONGC has developed a roadmap to achieve net zero operational emissions by 2038 which, inter-alia, includes green hydrogen, Compressed BioGas and Carbon Capture Utilization and Storage, etc. ONGC has not developed a blue print for investing in harnessing geothermal and ocean energy.
