

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
RAJYA SABHA
UNSTARRED QUESTION NO. 1096
ANSWERED ON 12/12/2023

R & D IN RENEWABLE ENERGY

1096. SHRI SANT BALBIR SINGH

Will the Minister of New & Renewable Energy be pleased to state:

- (a) the initiatives taken by Government for Research and Development (R&D) in the field of renewable energy at the global level;
- (b) whether Government has signed any agreements with national and international institutions/countries to promote research or studies to enhance renewable energy potential in the country;
- (c) if so, the details thereof during the last three years and the current year; and
- (d) the comparison of the country's R&D with other countries of the world?

ANSWER

THE MINISTER OF NEW & RENEWABLE ENERGY AND POWER

(SHRI R.K. SINGH)

(a) The Ministry of New and Renewable Energy is implementing 'Renewable Energy Research and Technology Development Programme' through various research institutions and industry to develop indigenous technologies and manufacturing for widespread applications of new and renewable energy in efficient and cost-effective manner, including international collaboration for joint technology development and demonstration.

It provides up to 100% financial support to government/non-profit research organizations and up to 70% to industry, startups, private institutes, entrepreneurs, and manufacturing units.

(b) & (c) The details of the MoU/Agreement/ Joint Declaration of Intent (JDI)/ Letter of Intent ((LoI) signed by Ministry of New and Renewable Energy, Govt. of India with National and International institutions/countries to promote research or studies in the field of renewable energy during the last three years and the current year are given in **ANNEXURE**.

(d) The research for technology development and demonstration in the country in various areas of new and renewable energy such as solar thermal systems, solar photovoltaic systems, biogas systems, waste to energy systems, wind energy systems, hybrid systems, hydrogen and fuels cells, geothermal, including cutting edge technologies such as pervoskites solar cell, organic solar cells and storage technologies etc. is being carried out at international benchmark level.

Annexure referred to reply to part (b) & (c) of Rajya Sabha Unstarred Question No. 1096 for 12.12.2023 regarding R & D IN RENEWABLE ENERGY

The List of MoU/Agreement/JDI/LoI signed by Ministry of New and Renewable Energy, Govt. of India with National and International institutions/countries to promote research or studies in the field of renewable energy during the last three years and the current year

S. No.	Country	Brief objective(s)	Year of Signing/ Location of Signing	Date of Expiry /Validity
1	MNRE-IRENA	Strategic Partnership Agreement between the Ministry of New and Renewable Energy (MNRE), Government of India and International Renewable Energy Agency (IRENA)	14 th Jan. 2022 At New Delhi/Abu Dhabi	Valid till terminated
2	France	To establish the basis for Cooperation in the Area of Renewable Energy	28 th January, 2021 At New Delhi	27 th January, 2026
3	Australia	Letter of Intent ((LoI) between Ministry of New and Renewable Energy Govt. Of India and Department of Climate Change, Energy, the Environment and Water (DCCEEW), Government of Australia on New and Renewable Energy Technology	15 th February, 2022 At New Delhi	-
4	Germany	Joint Declaration of Intent (JDI) between the Ministry of New and Renewable Energy (MNRE) of the Republic of India and the Ministry for Economic Affairs and Climate Action (BMWK) of the Federal Republic of Germany on Indo-German Green Hydrogen Task force	02 nd May, 2022 At Berlin/New Delhi	01 st May, 2024
5	Germany	Joint Declaration of Intent (JDI) between the Ministry of New and Renewable Energy (MNRE) and the Federal Ministry for Economic Cooperation and Development of the Federal Republic of Germany on Indo-German Development Cooperation regarding Renewable Energy Partnership	02 nd May, 2022 At Berlin	-
6	UAE	To promote discussion and Cooperation between the Parties in the Potential Areas of Cooperation in the Spectrum of Green Hydrogen Development and Investments in India and the UAE	13 th January, 2023 At Abu Dhabi, UAE	Valid for three years & automatically renewed for successive periods
7	Saudi Arabia	To set up a framework for cooperation between the two parties in the field of renewable energy	10 th September, 2023 At New Delhi	Valid till five years & shall be automatically renewed for similar period