

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
RAJYA SABHA
UNSTARRED QUESTION NO. 3165
ANSWERED ON 28.03.2023

SOLAR ENERGY IN THE COUNTRY

3165. SHRI PARIMAL NATHWANI

Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

- (a) whether Government propose to cover the main canals of major rivers with solar panels to generate Solar energy in the country, if so, the details thereof;
- (b) the details of lengths (in kilometers) of Narmada canals covered with the solar panels and connected to the grid;
- (c) the details of the current generation of renewable energy from solar panels covering Narmada canal; and
- (d) the details of canals in the country where solar energy is tapped by covering the canals?

ANSWER

THE MINISTER OF NEW & RENEWABLE ENERGY AND POWER
(SHRI R.K. SINGH)

(a) On 05.12.2014, the Ministry of New & Renewable Energy (MNRE), Government of India, had notified a scheme for 'Pilot-cum-Demonstration Project for Development of Grid Connected Solar PV Power Plants on Canal Banks and Canal top', in order to incentivize gainful utilization of the unutilized area on top of canals and also the vacant Government land along the banks of canal wherever available for setting up of solar PV power generation plants.

(b)&(c) Details provided by Sardar Sarovar Narmada Nigam Limited (SSNNL), Government of Gujarat, in respect of their canal top solar projects are at **Annexure-I**.

Further, as informed by Madhya Pradesh Urja Vikas Nigam Limited, New & Renewable Energy Department, Government of Madhya Pradesh, has no plan to cover all main canals with solar panels presently.

(d) In addition to the canal top solar projects by SSNNL mentioned at **Annexure-I**, the details of canal top solar power projects set-up by other organizations under the scheme for 'Pilot-cum-Demonstration Project for Development of Grid Connected Solar PV Power Plants on Canal Banks and Canal top' is at **Annexure-II**.

Annexure-I

Annexure-I referred in reply to parts (b) & (c) of Rajya Sabha Unstarred Question No. 3165 replied on 28.03.2023

Details of Canal Top Solar Projects of Sardar Sarovar Narmada Nigam Limited, Government of Gujarat

S. No.	Name of Canal Top Project	Length of Narmada Canal Covered
1	1 MW Sanand Branch Project	0.75 kilometers
2	10 MW Vadodara Branch Canal Project (Near Sama Village)	3.60 kilometers
3	10 MW Vadodara Branch Canal Project (Near Nimeta and Raval Village)	4.00 kilometers
Total		8.35 kilometers

S. No.	Name of Canal Top Project	Generation (from 01.04.2022 to 23.03.2023)
1	1 MW Sanand Branch Project	1.39 Million units
2	10 MW Vadodara Branch Canal Project (Near Sama Village)	10.70 Million units
3	10 MW Vadodara Branch Canal Project (Near Nimeta and Raval Village)	15.45 Million units
Total		27.54 Million units

Annexure-II

Annexure-II referred in reply to part (d) of Rajya Sabha Unstarred Question No. 3165 replied on 28.03.2023

Sl. No.	State	Implementing Agency	Project Details		Canal
			Project Type	Power Generation Capacity (MW)	
1	Andhra Pradesh	New & Renewable Energy Development Corporation of Andhra Pradesh Limited	Canal Top	1	Losari Main Canal in West Godavari District
2	Karnataka	Krishna Bhagya Jala Nigam Limited	Canal Top	10	Lead off canal of Koppal Lift Irrigation Scheme, Bagalkot
3	Kerala	Kerala State Electricity Board Limited	Canal Top	2	Barapole Canal (Barapole Hydro Project, Kannur)
4	Punjab	Punjab Energy Development Agency	Canal Top	20	2.5 MW on Ghaggar Branch Canal 2.5 MW on Sidhwan branch Canal 7.5 MW on Ghaggar link Canal 7.5 MW on Ghaggar Branch Canal
5	Uttarakhand	Uttarakhand Jal Vidyut Nigam Limited (UJVN)	Canal Top	1	Yamuna Power Channel near Dhalipur Power House, Dhalipur.