

PATAN WIND POWER PROJECT (50 MW) (UNDER OPERATION)

The Wind Power Project located in Distt. Patan, Gujarat having an installed capacity of 50 MW which comprises 25 nos. Wind Turbine Generators (WTGs), installed in four villages namely Amrapur, Ved, Vahedpura and Anwarpura that are approximately 200km from Ahmedabad and 120km from Mehsana and each of 2 MW capacity. The overview of the project is as under:

S.N.	Particular	
1.	Name of Site / Distt. / State	Village Amrapur, Ved, Vahedpura and Anwarpura, Dist. Patan, Gujarat
2.	Project Capacity (MW)	50 MW (25 x 2MW)
3.	WTG Model	G97 – 2.0 MW
a	WTG rating (kw)	2000
b	Hub Height (m)	90
c	Rotor Diameter (m)	97
4.	Type of Land	Revenue
5.	Pooling Sub-Station near Wind Farm	Existing 220/33KV SS at Amarapur
6.	GETCO Sub-Station	Tharad SS approx 90km from PSS.

COMMISSIONING OF PROJECT:

The Project was commissioned on 29.06.2016, ahead of the schedule.

The project has been registered with IREDA for availing of Generation Based Incentive (GBI) @ Rs.0.50 / kwh with a cap of Rs. 1 Cr. per MW. The project will receive a total GBI of Rs. 50 Cr. under this scheme of MNRE. 2463

The expected Annual Generation from the project is 110.50 MU with 25.22% capacity factor. The Power Purchase Agreement (PPA) for the project has been signed with Gujarat Urja Vikas Nigam Limited (GUVNL) at a fixed tariff of Rs. 4.15 / unit for 25 years of life of the project.

GENERATION:

Details of generation from Patan Wind Power Project are as under:

S. N.	Year	Generation (in MU)	CUF (%)
1	2016-17	59.041	17.59 %
2	2017-18	90.22	20.60 %
3	2018-19	108.32	24.73%
4	2019-20	104.07	23.70%
5	2020-21	75.64	17.27%
6	2021-22	77.74	17.75%
7	2022-23	77.71	17.74%
8	2023-2024	76.84	17.49%
Total		669.58	18.31%

The details of generation from Patan Wind Power Project for the current financial year 2023-24 are as under:

S.N.	Month	Target (in MU)	Generation (in MU)	CUF (%)
1	Apr'23 to Jun'23	26.00	26.35	24.13%
2	Jul'23 to Sep'23	21.00	21.41	19.39%
3	Oct'23 to Dec'23	14.00	12.05	10.91%
4	Jan'24	7.00	4.21	11.31%
5	Feb'24	4.16	6.03	17.33%
6	Mar'24	5.00	6.79	18.25%
Total (up to Mar'24)		77.16	76.84	17.49%

Cumulative generation during FY 2023-24 upto Mar'24 is 76.84 MU against the target of 77.16 MU and CUF achieved is 17.49%.