

आजादी का अमृत महोत्सव (India@75) कार्यक्रम के दौरान दिनांक 09.08.2021 को केन्द्रीय मृदा एवं सामग्री अनुसंधानशाला में "ऊर्जा के नवीकरणीय स्रोत: उपलब्धियां और आगे का रास्ता" के विषय पर श्री पी सेंथिल, वैज्ञानिक 'बी' द्वारा ऑनलाइन भाषण दिया गया। [#आजादीकाअमृतमहोत्सव](#)

4-Aug-21 Renewable Energy Sources

Growth of Electricity Sector

Sl. No.	Year	Capacity GW	Village Electrified	Per capita kWh
1	1947	1.3	NA	16
2	1969	13	73,739	98
3	1997	86	4,98,836	465
4	2020	370	5,97,464	1208

Renewable Sources of Energy - Achievements and Way Ahead by Shri P. Senthil, Scientist 'B', CSMRS S-20210809

Data extracted from Plan wise Electricity growth, CEA.

आजादी का अमृत महोत्सव

RENEWABLE SOURCE OF ENERGY – ACHIEVEMENTS AND WAY AHEAD

Lecture series on Celebrating 75 Years of Independence

Presentation by **Senthil P; Scientist B**



6. SOLAR 42 GW now

- Sun light is converted into electricity using Solar Cells
(Remember when & where u've seen solar cell?)
- National Solar Mission 2010
 - 20 GW by 2022 later target revised to 100 GW.
 - 2030: 450 GW Renewable capacity (250 GW Solar)
- Considering the allotted Projects,
100 GW target achieved by 2022.



SUMMARY...

- Tariff of Solar and Wind plants is < 3 Rs. / kwh. 100% FDI
- India gets - technology & finance - developed countries.
- With enormous potential, RES can grow rapidly.
- Reduction of Co2 & Global Warming – commendable contribution by India

Type	Achieved / Targeted (GW)	Potential (GW)
Solar	42 / 100	750
Wind	39 / 60	300
Hydro	46 /--	145
Biomass	10 / 10	40
Small hydro	4.8 / 5	20