

Solar Power Capacity Requirement (FY12-FY22)

As per the National Tariff Policy, it is envisaged that the targets for Solar RPO shall be 0.25% by 2012-13 extending to 3% by 2022. The Jawaharlal Nehru National Solar Mission has been the first step towards achieving these targets.

The following table illustrates the Solar RPO requirement by 2022 on the basis of expected demand in India.

Solar Power Capacity Requirement by 2022

Year	Energy Demand (MU)*	Solar RPO (%)	Solar Energy Requirement (MU) for RPO compliance	Solar Capacity Requirement for RPO compliance (MW)
	(A)	(B)	(A)X(B)	
2011-12	953,919	0.25%	2,385	1,433
2012-13	1,022,287	0.25%	2,556	1,536
2013-14	1,095,555	0.50%	5,478	3,291
2014-15	1,174,074	0.75%	8,806	5,291
2015-16	1,258,221	1.00%	12,582	7,560
2016-17	1,348,399	1.25%	16,855	10,127
2017-18	1,443,326	1.75%	25,258	15,176
2018-19	1,544,936	2.25%	34,761	20,885
2019-20	1,653,700	2.50%	41,343	24,839
2020-21	1,770,120	2.75%	48,678	29,247
2021-22	1,894,736	3.00%	56,842	34,152

*Note: *Based on the National Electricity Plan for Generation January 2012*

Assumptions:

Average CUF for Solar Power Technologies to be 19%

Key Inference:

To achieve 3% RPO compliance by 2022, we would need ~34,000MW of solar capacity

To be able to achieve such capacity additions, states have come up with Renewable Purchase Obligations ,with yearly targets , based on Model regulation by FOR.