

# Haryana Solar Policy - 2016

## HIGHLIGHTS

<b>Nodal Agency</b>	Haryana Renewable Energy Development Agency (HAREDA)
<b>Applicable Technologies</b>	<ul style="list-style-type: none"> <li>• Solar PV</li> <li>• Solar powered agricultural pump-sets</li> <li>• Canal-top solar PV</li> <li>• Solar thermal</li> <li>• Solar steam systems</li> </ul>
<b>Targets under Policy</b>	<ul style="list-style-type: none"> <li>• 8% (3200 MW) RPO target set by MNRE</li> <li>• 1600 MW rooftop solar shall be added by the year 2021-22</li> </ul>
<b>Price Preference</b>	To IPPs setting up solar plants in the state.
<b>Exemption from duties/taxes/ charges/losses</b>	All electricity taxes andcess, electricity duty, wheeling charges, cross subsidy charges, T&D charges and surcharges will be totally waived for ground-mounted and rooftop solar projects.
<b>REC</b>	Developer shall be eligible as per CERC regulations.
<b>Industrial Status</b>	The incentives available to industrial units under the industrial policy from time to time, shall also be available to the solar power producers/units. (Should it be shifted under other provisions?)
<b>Eligibility Conditions</b>	Any individual/company/firm/group of companies or joint venture/consortium of maximum 4 partners with leading partner having minimum 51% shareholding.

### **Evacuation Arrangement**

- It shall be done by user as per regulations of HERC for rooftop projects.
- The State transmission utility or the Transmission/Distribution Licensee shall bear the cost of Extra High Voltage (EHV)/ High Voltage (HV) transmission lineup to a distance of 10 km. from the inter-connection point.
- In case the distance between the inter connection point and point of grid connectivity is more than 10
- kms then the cost of transmission line for the distance beyond the 10 kms shall be borne equally between the Independent Power Producer and the licensee.
- However for canal based solar power projects, the transmission lines shall be provided by the utilities, free of cost, irrespective of the distance of the project from the substation.

## **OTHER PROVISIONS**

The state encourages solar grid-connected power plants. It shall provide necessary land for MW scale projects and lease govt. owned rooftops.

### **Ground mounted power projects**

- Capacity Reservation - HPPC will float tenders from time to time inviting bids for solar power purchase. Each bid shall comprise the power required to be purchased for fulfilling the RPO plus 20% additional power for allocation to small generators of 1MW to 2 MW capacity.
- HPPC will purchase solar power over and above the RPO obligation subject to a 200 MW limit.
- A price preference of 2% will be given to solar power generators of 1MW to 2 MW capacity setting up plants in the state..
- Solar power projects on canal tops/banks-Shadow-free sites available on canal banks shall be identified in consultation with the Irrigation Department, Haryana.
- The bidder shall be selected through open competitive bidding by a separate tender floated by Haryana Power Purchase Centre (HPPC). The entire power from the solar plant shall be purchased by HPPC, if need be, to meet their RPO, at the tariff so discovered.
- Such projects shall be provided with all the benefits given to ground mounted MW-scale power projects including free evacuation facility irrespective of the distance. IPPs, who have already set up small hydro projects on canals shall be motivated to set up solar power projects on the canal tops/banks allocated to them.
- Panchayat land on lease/rent basis - The state govt. shall facilitate the lease/sub-lease of panchayat land at reasonable rates through SUN Haryana (Saur Urja Nigam Haryana) or directly through the panchayat (as per prevailing govt. policy) for setting up of solar power projects for a minimum period of 30 years.
- Solar power projects will be out of the preview of the government's Land Ceiling Act.

## **Rooftop power projects**

- Installation of 1kWp to 1 MWp grid-connected, and up to 50 kWp off-grid solar rooftop power plants, on industries, public and private institutes, schools, colleges, commercial & social institutions/establishments, charitable trust bhawans, hospitals and residential buildings, etc., shall be promoted for captive use/net meter as per state govt. regulations.
- Cluster of rooftops on public/private buildings - IPPs can develop grid-connected rooftop solar power plants of capacities ranging from 250 kWp to 1 MW, on a cluster of public/private buildings on the last lowest tariff discovered and conveyed by HPPC. Energy from the plants shall be purchased by the HPPC, or any entity of Haryana Govt., within four years from the date of notification of this policy. Alternatively, the developer can also supply/provide the power for captive use where the system is installed, along with net meter, and can sell the remaining power to HPPC/any entity of the Haryana Govt. on the last lowest tariff discovered and conveyed by HPPC, or to third party as per HERC regulations. No permission is required from the building plan sanctioning authority for setting up of rooftop solar plants and such plants can avail of RPO/REC benefits.
- Evacuation arrangement - Evacuation, including metering, shall be performed by the user as per the technical specifications, guidelines and regulation issued by HERC. However, if dedicated transmission lines are required, they shall be as per procedure for ground-mounted power plants.
- Procedure - All statutory clearances and approvals shall be provided through a single window facility, in a time bound manner, within a 60 day period, after the submission of complete application with necessary enclosures, fees/charges including LOI. Clearance to the single window authorities will be given within 45 days.
- All requisite help will be provided by HAREDA to the selected developer for bank loan as per RBI and GoI guidelines.
- Decentralized and off-grid applications - The state will provide financial assistance for installation of decentralized and off-grid solar applications, including hybrid systems, as per MNRE guidelines, for meeting various electrical and thermal energy requirements for domestic and commercial use.
- HAREDA shall promote the industrial application of steam in process industries such as textile/food industry, and the use of solar steam systems to meet community cooking energy needs in residential institutions/industrial canteens/hotels/barracks/mid-day meal programs/hospitals, etc.

## **Incentives and benefits**

- The STU or the Transmission/Distribution Licensee shall bear the cost of Extra High Voltage (EHV)/High Voltage (HV) transmission lines up to a distance of 10 km from the inter-connection point. In case the distance between the inter-connection point and point of grid-connectivity is more than 10 kms, then the cost of transmission line shall be borne equally by the Independent Power Producer and the licensee.
- For canal-based solar power projects, the transmission lines shall be provided by the utilities, free of cost, irrespective of the distance of the project site from the substation. The cost of any augmentation after the interconnection point in the grid system of the Transmission/Distribution Licensee shall also be borne by the concerned Transmission/Distribution Licensee.
- Haryana Vidyut Parsaran Nigam Ltd. (HVPNL)/ Dakshin Haryana BijliVitran Nigam Ltd. (DHBVN)/ Uttar Haryana BijliVitran Nigam Ltd. (UHBVN)/licensee shall permit solar power generated by eligible producers to be banked.
- The banking facility shall be allowed for a period of one year by the licensee/utilities and IPP will pay the difference of Unscheduled Interchange charges (UI charges) at the time of injection and at the time of withdrawal.
- However, withdrawal of banked energy shall not be allowed during peak hours and ToD hours.
- Projects of MW-scale shall not require any change of land use approval from Town & Country Planning Department.
- Exemptions from External Development Charges (EDC), scrutiny fee and infrastructure development charges, unless special service is required, then EDC shall be charged on pro-rata basis.
- Projects of MW-scale shall be provided 100% exemption from fee payment and stamp duty charges for registration of land rent/lease deed.
- Main meter at the interconnection point and check meter at the substation of Nigam, shall be provided by the IPP. However, Nigam/DISCOM shall provide check meter at the interconnection point and main meter at its substation. Metering of power produced shall be carried out at the Nigam/DISCOM substation. .

<p><b>Initiatives by the State Govt.</b></p>	<ul style="list-style-type: none"> <li>• Mandatory installation of solar power plants - The state govt., vide its notification dated 03.09.2014, has mandated the installation of solar power plants of 3% to 5% of the connected load for many categories of buildings.</li> <li>• Net metering - This facility shall be provided for grid-connected PV systems of capacity equivalent to the sanctioned load installed for captive use.</li> <li>• During FY 2015-16 an incentive of 25 paise per unit shall be provided in the bills, on the solar power generated from net metering arrangement. The incentive payable under these regulations shall be reviewed by the Commission, every year, along with ARR/Tariff petition for that year and the incentive payable accordingly for FY 2016-17 onwards.</li> <li>• Lease of government buildings/lands- The rooftop space available in government organizations, institutions, buildings or vacant land can also be provided on lease/rent to the Independent Power Producer/RESCO developer for setting up of solar power projects. For such sites, the lease/rent rate shall be decided by a Committee of Deputy Commissioner of the concerned district, PWD (B&amp;R) Department and the Department owning the building. The developer can also supply/provide power for captive use of the premises where the system is installed along with net meter, and can sell the remaining power to HPPC on the minimum last tariff discovered and conveyed by HPPC or to a third party as per the HERC Regulations.</li> <li>• Agricultural pump-sets - The state, in collaboration with the central government MNRE, Govt. of India, will promote the installation of agricultural solar powered pump sets through subsidy support (if applicable) to meet water/irrigation energy needs. The surplus power generation from the solar pump sets may be bought by the HPPC at APPC rate of the year. The solar energy thus generated and exported shall also be credited towards meeting the RPO of the DISCOM.</li> </ul>
<p><b>Provision for policy review</b></p>	<p>As and when the need arises</p>
<p><b>Links</b></p>	<p><a href="http://hareda.gov.in/?model=pages&amp;nid=49">http://hareda.gov.in/?model=pages&amp;nid=49</a></p>
<p><b>References</b></p>	<p><a href="http://hareda.gov.in/writereaddata/document/hareda810524221.pdf">http://hareda.gov.in/writereaddata/document/hareda810524221.pdf</a></p>