

HARYANA GOVERNMENT

Haryana Solar Power Policy, 2016

Sl. No.	Description	Summary
1.	Title and Enforcement	<ul style="list-style-type: none"> • Haryana Solar Power Policy, 2016-Notification No. 19/4/2016-5 Power dated 14th March, 2016 • Policy to come into operation with effect from the date of its notification and remain in force till a new Policy is notified. • State Government may undertake review of this policy as and when the need arises
2.	Objective	<ul style="list-style-type: none"> • To promote generation of green and clean power in the State using solar energy. • To create conditions conducive to the participation of private and public sector as well as PPP in promoting and setting up Solar Energy based power projects(SPP) in the State. • Productive use of wastelands / non – agricultural lands • Employment generation and skill up gradation of youth. • To put in place an appropriate investment climate that would leverage the benefits of Clean Development Mechanism (CDM) and result in lower Green House Gas (GHG) emissions. • Decentralization and diversification of the energy portfolio and to increase the share of renewable solar power. • Co-creation of Solar centres of Excellence and pools of technical professionals which would work towards applied research and commercialization of indigenous and cutting edge technologies involving applications of solar energy generation and appliances. • Spreading of environmental consciousness among all citizens of the State especially the youth and school going children.
3.	Definitions	Applicable as per Policy
4.	Solar Renewable Energy Purchase Obligation (RPO)	<ul style="list-style-type: none"> • HERC has prescribed the Solar RPO of 3% by the year 2021-22. • MNRE is planning to raise solar RPO targets for obligated entities (including distribution companies) to 8% from the current level of 3%. For Haryana State, this will translate to installed capacity of 3200 MW solar power by the year 2021-22. <p>To achieve the solar RPO, following initiatives to be taken by the Govt.:</p> <ul style="list-style-type: none"> • Installation of ground mounted MW scale solar power plants. • Installation of solar power plants by the Haryana Power Generation Corporations on its land. • Development of solar parks through Saur Urja Nigam Haryana Ltd. (SUN Haryana). • Installation of solar power plants under schemes of MNRE like VGF, unemployed youth/ farmers scheme and purchase of power under bundling scheme of National Vidyut Vyapar Nigam Ltd. (NVVNL)/NTPC. • Installation of solar power plants on canal banks. • Rooftop grid connected solar power plants through net metering. • Rooftop grid connected SPPs on cluster of Govt. /PSU buildings. <p>CERC/HERC to recognize the entire cost incurred toward the purchase of solar power in the ARR order issued from time to time.</p>
5.	Ground Mounted Power Projects	<p>MW Scale Power Plants</p> <ul style="list-style-type: none"> • Haryana Power Purchase Centre (HPPC) to invite bids through open competitive bidding tenders for setting up SPPs by Independent power producers (IPPs) • IPPs to meet with all the requirements, as per the State Grid Code • IPPs to connect SPPs with the nearest Transmission/Distribution Licensee Sub-Station • HPPC to float tenders for inviting bids for purchase of solar power. Each bid to comprise of power to be purchased for fulfilling RPO plus 20% additional power for allocation to generators of 1MW to 2 MW capacity. • HPPC to purchase solar power over and above the RPO obligation subject to a limit of 200 MW.

		<ul style="list-style-type: none"> • A price preference of 2% to be given to the generators of 1MW to 2 MW who set up their plants within Haryana as compared with the solar power plants who supply power from the plants located outside the state. <p>Development of Solar Parks</p> <ul style="list-style-type: none"> • Solar Parks to be set up in the State to meet Solar RPO and boost economy • A Joint Venture company has been formed by HSIIDC and HPGCL named SUN Haryana which will aggregate lands in various parts of the State for setting up Solar Parks/Solar Power Plants through Private Power Producers. <p>Solar Power Projects set up on Canal tops/banks</p> <ul style="list-style-type: none"> • Setting up of MW scale Solar Power Plants on canals tops/banks to be encouraged and shadow free space available on canal banks identified in consultation with Irrigation Department, Haryana. • Bidder to be selected through open competitive bidding by a separate tender by HPPC. • Entire power from the SPP to be purchased by HPPC, if need be, to meet their RPO, at the tariff so discovered. • State to provide all the benefits as for Ground Mounted MW scale Power Projects including free evacuation facility irrespective of the distance • IPPs having small hydro projects on the canals, shall also be motivated to set up SPPs on the canal tops/banks allocated to them. <p>Panchayat Land on Lease /Rent basis</p> <p>Government of Haryana to facilitate the lease/sub-lease of Panchayat land at reasonable rates through SUN Haryana or directly through Panchayat for setting up of SPPs for minimum period of 30 years</p> <p>Procedure for setting up MW scale Grid connected Power Project</p> <ul style="list-style-type: none"> • HPPC to invite bids through open competitive bidding process and issue letter of intent (LOI) to the project developer(s)/power producer(s), • HPPC to communicate rates of purchase to the Renewable Energy Department/HAREDA after the finalization of every tender. • After issue of LOI developer(s)/ producer(s) to submit the proposal to HPPC for all clearances. • After issue of clearances, HPPC to sign PPA with the IPPs/developer(s). • SPP to be out of the preview of the Land Ceiling Act of the government.
<p>6.</p>	<p>Rooftop Power Projects</p>	<ul style="list-style-type: none"> • Rooftop Grid connected / off-grid solar power projects • State to promote installation of 1kWp to 1 MWp capacity Grid connected & up to 50 kWp capacity off-grid SPPs on the roofs of Industries, public and private Institutes, schools, colleges, commercial & Social institutions/ establishments, Charitable Trust Bhawans, Hospitals and residential buildings for their captive use/net meter as per the State Govt. Regulations. • State Government to provide capital /generation subsidy/ incentives. • A total capacity of 1600 MW rooftop solar power plants shall be added by the year 2021-22. <p>Cluster of rooftops of public / private buildings</p> <ul style="list-style-type: none"> • Offers shall be invited by Renewable Energy Department, Haryana/HAREDA from IPPs for development of grid connected rooftop SPPs, of capacity of 250 kWp to 1 MW, on a cluster of public private buildings on the last lowest tariff discovered and conveyed by HPPC. • Entire power produced by developer who set up plants within four years from the date of notification of this policy to be purchased by the HPPC/ any entity of Haryana Govt. • Developer may also supply/provide power for captive use of the premises where the system is installed along with net meter and sell the remaining power to HPPC/any entity of Haryana Govt. on the last lowest tariff discovered or to third party as per HERC regulations. • All maximum and extra benefits possible to be extended to Roof Top SPPs. • No permission is required from the building plan sanctioning authority for setting up of rooftop solar power plants. • Rooftop Solar Power Plants to be eligible for RPO/REC benefits

		<p>Power Evacuation</p> <ul style="list-style-type: none"> For Rooftop grid connected SPV system, installed for captive use/ sale of power to power utilities/third party sale through open access, all arrangements for power evacuation to be done by the user as per the technical specifications, guidelines and regulation issued by HERC. However, if dedicated transmission line is required then it shall be as per procedure of ground mounted power plants. <p>Procedure for setting up Rooftop solar power projects</p> <ul style="list-style-type: none"> Rooftop solar power projects (MW scale as well as small projects) including net metering to be implemented by Renewable Energy Department. Once the proposal has been approved (LOI issued), IPPs/developer(s) to enter into PPA with HPPC for the sale of power to it. In case of any dispute either party can approach Secretary, renewable Energy Department /his nominee for a decision in the matter. All the statutory clearances and approvals to be provided to the IPP through a single window facility, within 60 days after the submission of complete application along with fees/charges including LOI etc. Renewable Energy Department/ HAREDA along with concerned Department to function as single window authority on behalf of Govt. of Haryana Renewable Energy Department/HAREDA to provide help to selected eligible project developer for getting the loan sanctioned from the banks Application fee <p>There shall be no processing fee for Roof top grid connected solar power plant installed for captive use, under net-metering regulations,.</p> <p>Decentralized and Off Grid Solar Applications</p> <p>State to promote installation of decentralized and off-grid solar applications, including hybrid systems, as per guidelines issued by MNRE, for domestic and commercial use by providing financial assistance.</p>
7.	Incentives	
7.1	Status	Must Run Status and Operational Projects
7.2	Power Evacuation	<ul style="list-style-type: none"> All expenses for power evacuation, transmission, distribution line and synchronizing equipment to be as per HERC orders on Renewable energy Tariff & other issues, as modified from time to time. State transmission utility/Transmission/Distribution Licensee to bear cost of EHV/HV transmission line up to 10 km from the inter-connection point, beyond 10 km, cost to be borne equally between IPP and the licensee. For canal based SPP, transmission lines to be provided by the utilities, free of cost, irrespective of the distance of the project from the substation. Cost of any augmentation required after the interconnection point to be borne by the concerned Transmission/Distribution Licensee.
7.3	Other Charges	<ul style="list-style-type: none"> Exemption of Electricity Duty & Electricity Taxes & Cess, Wheeling, Transmission & distribution, cross subsidy charges, surcharges and Reactive Power Charges. All electricity taxes & cess, electricity duty, wheeling charges, cross subsidy charges, Transmission & distribution charges and surcharges to be totally waived off for Ground mounted and Roof Top Solar Power Projects.
7.4	Status of Industry	All new MW scale solar generating projects to be treated as "Industry" in terms of Industrial Policy of the State and all the incentives available to industrial units under the industrial policy to be available to the solar power producers/units.
7.5	Price Preference	Price preference to be given to IPPs who set up the SPPs Plants in the State
7.6	Land use, External Development(EDC) scrutiny fee and infrastructure development	<ul style="list-style-type: none"> MW scale project shall not require any change of Land Use approval from Town & Country Planning Department. Project to be exempted from EDC, scrutiny fee and infrastructure development charges but in case of special service, EDC charges to be charged on pro-rata basis. Details of such projects to be intimated to the Town & Country Planning Department. After expiry of PPA or when plant ceases to operate on the land, land use to revert to the original status of land

7.7	Environment Clearance	SPP do not require any clearance from the Haryana Pollution Control Board.
7.8	Stamp Duty for lease of land for projects	MW scale Projects to get 100% exemption from payment of fee and stamp duty charges for registration of rent/lease deed for the land required for setting up of these projects
8.	Banking	<ul style="list-style-type: none"> • Banking allowed for a period of one year by the Licensee/ Utilities • IPP to pay difference of Unscheduled Interchange charges (UI charges) at the time of injection and at the time of drawl. • Withdrawal of banked power not allowed during peak and Time of Day (TOD) hours. • If the banked energy is not utilized within a period of twelve months from the date of power banked, it will automatically lapse and no charges to be paid in lieu of such power
9.	Renewable Energy Certificate	Solar Power Plant Generator to be eligible to avail the Renewable Energy Certificates as per regulations of CERC
10	Clearance from Forest Department	In case of Forest Department clearance, the same to be facilitated by single window authority clearance agency of the Renewable Energy Department.
11.	Use of unutilized space	Developers of ground mounted MW scale SPPs may use the space in between the installed solar panels for commercial floriculture / horticulture related activities provided it does not affect generation and follows the safety and security measures as required for the installed equipments
12.	Metering	<ul style="list-style-type: none"> • Metering equipments for the power generation & its sale to be installed at site by the unit at their own cost as per specification of Power Utilities of State/ HERC Grid Code/ CEA (Installation and Operation of meters) Regulations, 2006 and its subsequent amendments. • Testing of equipment to be carried out by Power utilities at the User's cost. • Power utilities to develop necessary infrastructure at locations where more than one project is installed. • Metering& the allied equipment to be installed in the following manner : <ul style="list-style-type: none"> – Main meter at the interconnection point to be provided by the IPP and Check meter by the Nigam/DISCOM. – Main Meter at the substation of the Nigam to be provided by the Nigam /DISCOM and Check meter by the company. • Metering of the power produced to be done at Nigam /DISCOM substation
13.	Power Purchase Agreement(PPA)	<ul style="list-style-type: none"> • PPA to be signed between IPP and HPPC for 25 years. • After 25 years, PPA can be renegotiated between the producer and utilities/ license
14.	Earnest Money Deposit(EMD)	<ul style="list-style-type: none"> • For grid connected solar power projects for sale of power, application to be accompanied with EMD of Rs.2.00 lacs per MW in the shape of demand draft, to be refunded after signing of PPA. • If the bidder / developer fail /refuse to deposit the security deposit or fails/ refuse to sign the PPA within the stipulated time, EMD to be forfeited.
15.	Minimum Equity	<ul style="list-style-type: none"> • Grid connected solar project developer(s) to provide information about the Promoters and their shareholding in the company, along with the bid document, indicating the leading shareholder. • Developer may be individual/company/firm/group of companies or a Joint venture/ Consortium of maximum 4 partners having minimum 51% share holding of leading partner. • No change in the leading shareholder in the Company developing SPP allowed from the date of submitting the application till one year of execution of the project • Not applicable to SPPs developed by the public limited companies. • Any change may be undertaken only with information to RE Department/ HAREDA or HPPC,
16.	Plant & Machinery	Only new plant and machinery shall be allowed.

17.	Initiatives by the State Government	
17.1	Mandatory installation of SPP	State Govt. Notification dated 03.09.2014 For Mandatory Installation of SPPs for various categories buildings/Areas in Haryana
17.2	Net Metering Facility	<ul style="list-style-type: none"> • Grid connected rooftop solar photovoltaic systems of capacity equivalent to the sanctioned load can be installed for the captive use, for which the net-metering facility to be provided HERC Regulations. • Electricity generated from such systems to be cumulatively adjusted at 90% of the electricity consumption during the financial year
17.3	Lease of Government buildings/Land	<ul style="list-style-type: none"> • Rooftop space available in the Government organization, institutions, buildings or vacant land can also be provided on lease/rent to the IPP/RESCO developer for setting up of SPPs. • Lease/rent rate to be decided by a Committee of Deputy Commissioner of concerned district, PWD Dept. and Dept owning the building. • Developer can also supply power for the captive use of the premises where the system is installed along with net meter and sell the remaining power to HPPC on the minimum last tariff discovered and conveyed by HPPC or to third party as per the HERC Regulations.
17.4	Agriculture Solar Pump sets	<ul style="list-style-type: none"> • State in collaboration with the Central Government /MNRE to promote the installation of Agricultural Solar Powered Pump sets through subsidy support (if applicable) to meet water/ irrigation energy needs. • Surplus power generation may be bought by the HPPC at APPC rate • Solar energy generated and exported to be credited towards meeting the RPO of the DISCOM.
18.	Guidelines	
18.1	Technical Requirements	IPPs/Off grid power producer/user of SPV devices to strictly adhere to the national/ international standards specified by MNRE, and relevant IEC/ BIS standards and / or applicable standards as specified by the CEA/BEE and HERC Regulations 2010 as amended
18.2	Other schemes of MNRE, Govt. of India	Setting up of SPP to be promoted under various programmes implemented under Jawahar Lal Nehru National Solar Mission like Viability Gap Funding (VGF), scheme for unemployed youth/ farmers, bundling scheme of National Vidyut Vyapar Nigam Ltd/ National Thermal Power Corporation and rooftop solar power plants programme.
18.3	Nodal Agency	<ul style="list-style-type: none"> • Renewable Energy Department (RED) is the nodal agency for the implementation of this Policy on behalf of the Govt. of Haryana. • All developers to submit monthly reports i.e energy generated, revenue earned, power factor and plant load factor achieved, reasons for non-achievement of full generation and any other information so called for by RED/HAREDA so as to maintain and update data bank on generation in the state and for of monitoring of generation under RPO Regulations.
18.4	Amendments/ Relaxation/ Interpretations	Vested with the Government