

## GOVERNMENT OF GUJARAT

### Gujarat Solar Power Policy - 2015

Sl. No.	Description	Summary								
1.	<b>Title</b>	'Gujarat Solar Power Policy-2015'. Govt. of Gujarat, Energy & Petrochemical Department, GR No. SLR-11 – 2015- dated 13 <sup>th</sup> August 2015								
2.	<b>Operative Period</b>	<ul style="list-style-type: none"> <li>• Policy to come into effect from date of its notification and remain in operation up to 31<sup>st</sup> March, 2020</li> <li>• Solar Power Generators (SPGs) installed and commissioned during the Operative Period shall become eligible for the benefits and incentives declared under this Policy, for a period of 25 years from their date of commissioning or for the lifespan of the SPGs, whichever is earlier.</li> </ul>								
3.	<b>Objective</b>	<ul style="list-style-type: none"> <li>• To promote green and clean power and to reduce the State's carbon emission;</li> <li>• To reduce dependency on fossil fuels for energy security and sustainability;</li> <li>• To help reduce the cost of renewable energy generation;</li> <li>• To promote investment, employment generation and skill enhancement in the renewable energy sector;</li> <li>• To promote productive use of barren and uncultivable lands;</li> <li>• To encourage growth of local manufacturing facilities in line with the 'Make in India' programme</li> <li>• To promote research, development and innovation in renewable energy..</li> </ul>								
4.	<b>Abbreviations &amp; Definitions</b>	As per Policy								
5.	<b>Installed Capacity</b>	<ul style="list-style-type: none"> <li>• Minimum size of a MW-scale project - 1 MW</li> <li>• kW - scale project - 1 kW.</li> </ul>								
6.	<b>Eligible Entities</b>	Any company/Body corporate/Association or body of individuals, whether incorporated or not, or artificial juridical person shall be eligible for setting up of SPGs, either for the purpose of captive use and/ or for selling of electricity to the Distribution Licensee/ Third Party whether or not under the renewable energy certificate (REC) mechanism in accordance with the Electricity Act-2003								
7.	<b>Eligible Entity for Rooftop Solar PV Systems with Net Metering</b>	<p>In addition to the general eligibility defined above(item-6), the Eligible Entity for the rooftop solar PV systems with net metering shall:</p> <ul style="list-style-type: none"> <li>• Own the possession of the premises including the rooftop or terrace &amp; the rooftop solar PV system;</li> <li>• Be a Consumer of the local DISCOM, and connected to DISCOM's Grid;</li> <li>• Consume all the electricity generated from the rooftop solar PV system at the same premise.</li> </ul> <p style="text-align: center;"><b>For Residential Consumers and Government Buildings</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="width: 50%;">Capacity</td> <td>Up to a maximum of 50% of Consumer's sanctioned load.</td> </tr> <tr> <td>Tariff</td> <td> <ul style="list-style-type: none"> <li>• In case of net import; Consumer's existing tariff shall apply</li> <li>• In case of net export: Any surplus energy generated to be purchased by the concerned DISCOM at APPC rate of the year in which the SPG is commissioned</li> </ul> </td> </tr> <tr> <td>Metering</td> <td> <ul style="list-style-type: none"> <li>• As per Central Electricity Authority (Installation &amp; Operation of Meters) Amendment Regulations, 2014 as amended</li> <li>• Bi-directional meter of same accuracy class as the Consumer's meter existing before SPG installation shall be used</li> </ul> </td> </tr> <tr> <td>Transmission Charges &amp; Transmission Loss</td> <td>Not Applicable</td> </tr> </tbody> </table>	Capacity	Up to a maximum of 50% of Consumer's sanctioned load.	Tariff	<ul style="list-style-type: none"> <li>• In case of net import; Consumer's existing tariff shall apply</li> <li>• In case of net export: Any surplus energy generated to be purchased by the concerned DISCOM at APPC rate of the year in which the SPG is commissioned</li> </ul>	Metering	<ul style="list-style-type: none"> <li>• As per Central Electricity Authority (Installation &amp; Operation of Meters) Amendment Regulations, 2014 as amended</li> <li>• Bi-directional meter of same accuracy class as the Consumer's meter existing before SPG installation shall be used</li> </ul>	Transmission Charges & Transmission Loss	Not Applicable
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		Type 1 Consumer	Banking of energy allowed within one billing cycle peak charges applicable for consumption during peak hours
		Type 2 Consumer	Energy generated to be adjusted against consumption in a 15-minute time block. Surplus energy generated and exported during a 15-minute time block to be purchased by the DISCOM (i) for Type 2 (a) at the APPC rate, (ii) for Type 2(b) at 85% of APPC rate. APPC rate of the year to be in which the SPG is commissioned
		Electricity Duty	Exempted
		Cross Subsidy & Additional surcharge	Exempted
		R P O	Type 1 Consumer : Energy generated from SPG to be credited towards meeting the DISCOM's RPO Type 2(a) Consumer : Energy generated and consumed by the during a 15-minute time block to be credited towards meeting Consumer's RPO. Surplus solar energy exported during the 15-minute time block and purchased by the DISCOM shall be credited towards meeting the DISCOM's RPO. Type 2(b) Consumer : Solar energy generated in 15 time block to be considered for getting RE Certificate
		REC	Type 1 Consumer: Not Applicable Type 2(a) Consumer: Solar energy consumed by consumer during the 15-minute time block to be credited towards meeting consumer's RPO. Type 2(b) Consumer: SPG may avail RE certificate for entire net generation.
		C D M	100% to be retained by the Consumer/ Generator
<b>8.</b>	<b>Solar Projects for Captive Consumption</b>	Solar projects set up for captive use, both directly or under the REC mechanism	
		Capacity	Up to a maximum of 50% of the contract demand of the Consumer
		Tariff	<ul style="list-style-type: none"> <li>• Not applicable for self consumption.</li> <li>• Any surplus solar energy not consumed as per Energy Accounting shall be purchased</li> </ul> (a) APPC rate of the year in which the SPG is commissioned if the renewable attribute on solar energy is given to DISCOM. (b) 85% of APPC rate of the year in which the SPG is commissioned if renewable attribute is not given to the DISCOM.
		Metering	Using ABT-compliant meter, at receiving end of STU substation / 11 kV system of DISCOM
		Demand Cut	Exemption from demand cut up to 50% of the installed capacity
		Transmission Charges & Transmission Loss	As applicable to normal Open Access Consumer determined by GERC as amended.
		Wheeling Charges & Loss	<ul style="list-style-type: none"> <li>• For the project not registered under REC - 50% of Wheeling charges/loss applicable to normal Open-Access Consumer determined by GERC</li> <li>• For the project registered under REC- Wheeling charges /loss applicable to normal Open- Access Consumer. determined by GERC</li> </ul>

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10.	<b>Solar Projects under REC Mechanism with Sale of Power to DISCOMs at APPC</b>	<p>Developers to apply for accreditation to the State Nodal Agency and thereafter to the Central Agency for registration and issuance of certificates under the REC mechanism. The administrative procedure, as decided by the Central Electricity Regulatory Commission (CERC), and as amended, to be followed. Power generated may be purchased through long term PPA by DISCOMs at APPC rate of the year in which the SPG is commissioned.</p> <table border="1" data-bbox="578 373 1455 1104"> <tr> <td>Capacity</td> <td>As determined by DISCOMs, based on their energy requirement. Minimum project size to be 250 kW, or as specified by REC Regulations.</td> </tr> <tr> <td>Tariff</td> <td>APPC rate of the year in which the SPG is commissioned.</td> </tr> <tr> <td>Metering</td> <td>Using ABT-compliant meter, at receiving end of STU substation /11 kV system of DISCOM</td> </tr> <tr> <td>Demand Cut</td> <td>Not applicable</td> </tr> <tr> <td>Transmission Charges &amp; Transmission Loss</td> <td>As applicable to normal Open Access Consumer determined by GERC as amended.</td> </tr> <tr> <td>Wheeling Charges &amp; Loss</td> <td>As applicable to normal Open-Access Consumer determined by GERC</td> </tr> <tr> <td>Energy Accounting</td> <td>Accounting based on 15-minute time block-basis.</td> </tr> <tr> <td>Electricity Duty</td> <td>Exempted</td> </tr> <tr> <td>Cross Subsidy &amp; Additional Surcharge</td> <td>Not Applicable</td> </tr> <tr> <td>R P O</td> <td>Not applicable as REC claimed by Solar Developer / SPG.</td> </tr> <tr> <td>REC</td> <td>To be claimed by Solar Developer / SPG.</td> </tr> <tr> <td>C D M</td> <td>As per GERC order, as amended from time to time</td> </tr> </table>	Capacity	As determined by DISCOMs, based on their energy requirement. Minimum project size to be 250 kW, or as specified by REC Regulations.	Tariff	APPC rate of the year in which the SPG is commissioned.	Metering	Using ABT-compliant meter, at receiving end of STU substation /11 kV system of DISCOM	Demand Cut	Not applicable	Transmission Charges & Transmission Loss	As applicable to normal Open Access Consumer determined by GERC as amended.	Wheeling Charges & Loss	As applicable to normal Open-Access Consumer determined by GERC	Energy Accounting	Accounting based on 15-minute time block-basis.	Electricity Duty	Exempted	Cross Subsidy & Additional Surcharge	Not Applicable	R P O	Not applicable as REC claimed by Solar Developer / SPG.	REC	To be claimed by Solar Developer / SPG.	C D M	As per GERC order, as amended from time to time
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		<p>Energy Accounting</p>	<ul style="list-style-type: none"> <li>• Sale to outside State and DISCOMS within State: Accounting based on 15-minute time block-basis.</li> <li>• Sale to consumers within State:- 'If not registered under REC mechanism: Case 1: If the Consumer does not take credit of the generated solar energy for meeting its RPO and the DISCOM is given the renewable attributes, the adjustment of energy allowed within the Consumer's billing cycle, wherein set-off given against energy consumed at any time of the billing cycle. However peak charges to be applicable for consumption during peak hours.</li> <li>Case 2 (a) : If Consumer takes renewable attribute of the solar energy consumed for meeting its RPO, energy accounting to be based on 15-minute time block-basis.</li> <li>Case-2 (b) If registered under REC mechanism: Energy accounting shall be based on 15-minute time block-basis</li> </ul>
		<p>Electricity Duty</p>	<p>Exempted</p>
		<p>Cross Subsidy &amp; Additional Surcharge</p>	<ul style="list-style-type: none"> <li>• Not Applicable if sale of power is outside State or to DISCOMS within the State.</li> <li>• Sale; to consumers within State</li> <li>• For the projects not registered under REC- 50% of surcharge as applicable to normal Open-Access Consumer determined by GERC.</li> <li>• For the projects registered under REC- as applicable to normal Open-Access Consumer determined by GERC</li> </ul>
		<p>RPO</p>	<ul style="list-style-type: none"> <li>• For sale to outside State or DISCOMS within State: As specified in the scheme.</li> <li>• Sale to consumers within State: (I) Case 1: If not registered under REC mechanism: If the Consumer does not use the generated solar energy for meeting its RPO, the generated solar energy to be credited towards meeting the DISCOM's RPO:. (II) Case 2(a) Surplus solar energy purchased by DISCOMS at APPC rate to be credited towards meeting the DISCOM's RPO.</li> <li>Case 2 (b) If registered under REC mechanism: Not applicable, as REC will be claimed..</li> </ul>
		<p>REC</p>	<ul style="list-style-type: none"> <li>• For sale to outside State or DISCOMS within State: As specified in the scheme.</li> <li>• Sale to consumers within State: • If not registered under REC mechanism - Not applicable.</li> <li>• If registered under REC mechanism : REC shall be claimed by the Developer / SPG</li> </ul>
		<p>C D M</p>	<ul style="list-style-type: none"> <li>• For sale to outside State or DISCOMS within State: As specified in the scheme.</li> <li>• Sale to consumers within State: As per the mutual agreement between the Developer and Consumer</li> </ul>

12.	<b>Solar Projects with Sale of Power to Third Party under Open-Access</b>	Solar Developers may set up SPGs for sale of power to Third Parties under Open-Access, both directly or under the REC mechanism	
		Capacity	Up to a maximum of 50% of the sanctioned load/contract demand of the Consumer.
		Tariff	<ul style="list-style-type: none"> <li>• Mutually agreed tariff between Developer and Consumer for the energy consumed by consumer.</li> <li>• Any surplus solar energy not consumed by consumer as per Energy Accounting to be purchased at APPC rate of the year in which the SPG is commissioned if renewable attribute is given to DISCOM <ul style="list-style-type: none"> <li>– 85% of APPC rate if renewable attribute is not given to DISCOM.</li> </ul> </li> </ul>
		Metering	Using ABT-compliant meter, at receiving end of STU substation /11 kV system of DISCOM
		Demand Cut	Exemption from demand cut up to 50% of the installed capacity in case of Third-Party sale.
		Transmission Charge & Transmission Loss	As applicable to normal Open Access Consumer determined by GERC as amended.
		Wheeling Charges & Loss	As applicable to normal Open-Access Consumer determined by GERC
		Energy Accounting	<ul style="list-style-type: none"> <li>• If not registered under <i>REC</i> mechanism: Case 1: If the Consumer does not take credit of the generated solar energy for its RPO and the DISCOM is given the renewable attributes, the adjustment of energy allowed within the Consumer's billing cycle, wherein set-off given against energy consumed at any time of the billing cycle. However peak charges to be applicable for consumption during peak hours. Case 2 (a): If Consumer takes renewable attribute of the solar energy consumed for meeting its RPO, energy accounting to be based on 15-minute time block-basis. Case-2 (b) If registered under REC mechanism: Energy accounting shall be based on 15-minute time block-basis</li> </ul>
		Electricity Duty	Exempted
		Cross Subsidy & Additional Surcharge	<ul style="list-style-type: none"> <li>• For the projects not registered under REC- 50% of surcharge as applicable to normal Open-Access Consumer determined by GERC.</li> <li>• For the projects registered under REC- as applicable to normal Open-Access Consumer determined by GERC</li> </ul>
R P O	<p>(I) Case 1: If not registered under REC mechanism: If the Consumer does not use the generated solar energy for meeting its RPO, the generated solar energy to be credited towards meeting the DISCOM's RPO.</p> <p>(II) Case 2(a) Consumer who set up SPG for meeting its own RPO to get the RPO credit to the extent of the solar energy consumed by it DISCOM to get RPO credit for surplus solar energy (after 15 minutes cycle adjustment) purchased by it at APPC rate.</p>		

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C D M	As per the mutual agreement between the Developer and Consumer											
13.	<b>Land Allotment</b>	Solar Project Developer to be responsible for obtaining land for setting up and operating solar power project.										
14.	<b>Grid Integration</b>	<p>Central Electricity Authority (Technical Standards for connectivity to the Grid) Amendment Regulations, 2013, and provisions of grid code shall be binding to the Solar Project Developers and SPGs.</p> <p>Interconnection voltages are as detailed below:</p> <table border="1"> <thead> <tr> <th>Project Capacity</th> <th>Interconnection Specifications</th> </tr> </thead> <tbody> <tr> <td>1 kW &lt; 6kW</td> <td>230 V, single phase, 50 Hz</td> </tr> <tr> <td>6kW &lt; 100kW</td> <td>415V, 3 phase,, 50Hz</td> </tr> <tr> <td>100 kW &lt; 4 MW</td> <td>11 kV, 3 phase, 50 Hz</td> </tr> <tr> <td>C &gt; 4MW</td> <td>66/132/220/ 400 kV, 3 phase, 50 Hz</td> </tr> </tbody> </table>	Project Capacity	Interconnection Specifications	1 kW < 6kW	230 V, single phase, 50 Hz	6kW < 100kW	415V, 3 phase,, 50Hz	100 kW < 4 MW	11 kV, 3 phase, 50 Hz	C > 4MW	66/132/220/ 400 kV, 3 phase, 50 Hz
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15.	<b>Grid Connectivity</b>	<ul style="list-style-type: none"> <li>Evacuation facility to be initially approved by CTU/ STU/ DISCOM depending on injection level.</li> <li>Start-up, stand-by and auxiliary power requirement, to be governed by GERC regulations/Orders.</li> <li>No parallel operation charges applicable to the SPG.</li> <li>Connectivity charges to be paid to DISCOM @ Rs. 5,000/- per project for capacity less than 100 kW. For capacities of 100 kW and above, normal connectivity charges shall be applicable.</li> </ul>										
16.	<b>Evacuation Facilities</b>	<p><b>A. Within Solar Park</b></p> <p>Solar Project /Solar Park Developer to establish dedicated line for evacuation of power up to STU/ CTU sub-station and install RTUs etc. at their own cost.</p> <p>(a.) Solar Project/Solar Park Developer to lay dedicated line for evacuation of power up to sub-station of STU/11 kV system of DISCOM to inject power in the State grid. STU/ DISCOM to ensure transmission/ distribution system and connectivity from there onwards.</p> <p>(b). Solar Project Developer/ Solar Park Developer to lay dedicated line for evacuation of power up to CTU interface/ substation to inject power directly in inter-state transmission system.</p> <p><b>B. Outside Solar Park</b></p> <p>Common dedicated transmission line to be encouraged for cluster of adjoining Developers with appropriate metering at their respective end of project as well as a common meter for such SPGs at the receiving end at CTU Interface/ STU substation/ 11 kV system of DISCOM.</p>										
17.	<b>Metering and Energy Requirement</b>	<ul style="list-style-type: none"> <li>Electricity generated from the SPGs, to be metered on 15-minute time block by STU/ DISCOM SLDC/ALDC at the receiving end of the STU substation/11 kV system of DISCOM.</li> <li>For energy accounting, solar generating projects to provide ABT-compliant meters at the interface points.</li> <li>Interface metering to conform to CEA (Installation and Operation of Meters) Regulations 2014 and amendment thereto.</li> <li>Metering of SPG for domestic rooftop and government buildings, shall be on net metering-basis (bi-directional) or gross metering-basis (dual meter), as per specifications provided by the DISCOM.</li> </ul>										



18.	<b>Security Deposit</b>	<ul style="list-style-type: none"> <li>In case, Obligated Entities procure solar power from Solar Project Developers and sign Power Purchase Agreement (PPA), Developer to provide Bank Guarantee(BG)@ Rs. 25 lakhs /MW for MW scale and proportionate amounts for kW scale projects at the time of signing of PPA.</li> <li>BG to be refunded, if the developers achieve commercial operation within time period mentioned in PPA.</li> <li>In case Developer fails to achieve commercial operation as per PPA, BG to be forfeited.</li> <li>In every case, whether Obligated Entity is procuring/ not procuring solar power, SPGs shall submit security deposit of Rs.5 lakhs/MW to STU/DISCOM for speedy and timely completion of evacuation facility by SPG failing which BG to be forfeited.</li> </ul>
19.	<b>Forecasting and Scheduling</b>	<ul style="list-style-type: none"> <li>SPGs exempted under scheduling procedure for Intra State ABT till forecasting and scheduling mechanism is made applicable. SPG to abide by instruction of SLDC</li> <li>Actual energy injected in the grid during particular time block of 15 minutes shall be post-facto considered available for drawl schedule for sale of power to DISCOM / Third Party or for giving set-off against the consumption of recipient unit in case of wheeling.</li> </ul>
20.	<b>Reactive Power Charges</b>	Drawl of reactive power to be charged as per the GERC order, as amended from time to time.
21.	<b>Operation and Maintenance of Dedicated Lines</b>	Operation and Maintenance of dedicated evacuation line to be carried out at the cost of the Solar Park/ Project/ Plant Developer as per applicable technical standards and best practices.
22.	<b>Restrictions</b>	<ul style="list-style-type: none"> <li>Only New Plant and Machinery eligible for installation under this Policy. After commissioning of solar project (rooftop / ground mounted), installation not allowed to be transferred inter se or from one location to another</li> <li>No fossil Fuel viz. coal, gas, lignite, oil, naphtha etc. to be used in Solar Thermal Power Projects, beyond the ceiling allowable under MNRE guidelines</li> </ul>
23.	<b>Nodal Agency</b>	Gujarat Energy Development Agency (GEDA) shall act as the Nodal Agency for: <ul style="list-style-type: none"> <li>Registration of projects;</li> <li>Facilitating approval of power evacuation plans etc.;</li> <li>Respond to queries and problems of Developers;</li> <li>Accreditation and recommending the solar power project for registering with Central Agency under REC mechanism.</li> </ul>
24.	<b>Facilitating Agency</b>	Gujarat Power Corporation Limited (GPCL) or any other agency notified by State Government to act as Facilitating Agency for development of Solar Park
25.	<b>Mid-term Review</b>	After a period of 2 years or as and when the need arises
26.	<b>Power to Remove Difficulties</b>	Vested with State Government.
27.	<b>Power to Interpret</b>	Vested with State Government