

# Gujarat Hydro Policy - 2016

## HIGHLIGHTS

<b>Nodal Agency</b>	Gujarat Energy Development Agency (GEDA)
<b>Applicable Technologies</b>	Hydro-power (up to 25MW).
<b>Policy Period</b>	28th March 2016 - 31st March 2021.
<b>Forecasting and Scheduling</b>	Projects shall give their forecasted and scheduled stats for day to day operations.
<b>Exemptions &amp; Benefits</b>	<ul style="list-style-type: none"><li>• Electricity duty exempted for self consumption/third party sale within the state.</li><li>• Exemption from demand cut of 50% of installed capacity for self consumption/third party sale within the state.</li></ul>
<b>Eligibility Conditions</b>	Individuals, company or body corporate, association or body of individuals whether incorporated or not, or artificial juridical persons.
<b>Metering and Energy Recording</b>	ABT compliant meters shall be installed at interface points as per CEA specifications. Energy shall be metered on 15-minute time block by STU/DISCOM/SLDC/ALDC
<b>Provision for policy review</b>	A mid-term review may be undertaken after 2 years or as needed.
<b>Bank Guarantee for signing PPA</b>	Rs. 5 lakh per MW which shall be forfeited if timely commercial operation is not ensured.

## OTHER PROVISIONS

Open access with provisions for wheeling of electricity for third party sale.

<b>Selection of site</b>	DPR shall be prepared after detailed study of past records for water availability from the reservoir/canal and feasibility of site location. Site may be allotted as per Gujarat Infrastructure Development Act, 1999.								
<b>Grid integration &amp; connectivity</b>	<p><b>As per CEA technical standards for connectivity to the grid, interconnection voltages:</b></p> <table border="1" data-bbox="398 316 1272 523"> <thead> <tr> <th>Project Capacity (C)</th> <th>Interconnection specification</th> </tr> </thead> <tbody> <tr> <td><math>6 \text{ kW} \leq C &lt; 100 \text{ kW}</math></td> <td>415 V, 3 <math>\phi</math>, 50 Hz</td> </tr> <tr> <td><math>100 \text{ kW} \leq C &lt; 4 \text{ MW}</math></td> <td>11kV, 3 <math>\phi</math>, 50 Hz</td> </tr> <tr> <td><math>C \geq 4 \text{ MW}</math></td> <td>66/132/220 400kV, 3 <math>\phi</math>, 50 Hz</td> </tr> </tbody> </table> <p>Connectivity charges to be paid to DISCOM shall be Rs. 5000 per project for capacities less than 100 kW. For capacities of 100 kW and above, normal connectivity charges shall be applicable.</p>	Project Capacity (C)	Interconnection specification	$6 \text{ kW} \leq C < 100 \text{ kW}$	415 V, 3 $\phi$ , 50 Hz	$100 \text{ kW} \leq C < 4 \text{ MW}$	11kV, 3 $\phi$ , 50 Hz	$C \geq 4 \text{ MW}$	66/132/220 400kV, 3 $\phi$ , 50 Hz
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<b>Evacuation arrangement &amp; metering</b>	<ul style="list-style-type: none"> <li>• Developer shall establish dedicated evacuation line up to the STU/CTU sub-station and install RTUs at their own costs.</li> <li>• Metering - ABT compliant meters shall be installed at interface points, as per specifications of CEA. The energy generated shall be metered on 15-minute time block by STU/DISCOM/SLDC/ALDC.</li> </ul>								
<b>Wheeling of electricity</b>	<p><b>For Captive Consumption:</b></p> <ul style="list-style-type: none"> <li>• <b>Wheeling of power to consumption site at 66 kV voltage level and above:</b> Wheeling within the state shall be allowed on payment of transmission charges and losses applicable to normal open access consumers.</li> <li>• <b>Wheeling of power to consumption site below 66 kV voltage:</b> In case injection is at or above 66 kV and drawal is at 11 kV, wheeling within the state shall be allowed on payment of transmission charges and losses, and 50% of wheeling charges and 50% of distribution losses of energy fed into the grid, as applicable to normal open access consumers.</li> <li>• <b>Injection at 11 kV and drawal at 11 kV or below voltage level:</b> When injection and drawal as mentioned are in the same distribution area, the user shall pay 50% of wheeling charges and 50% of wheeling losses of the energy fed into the grid as applicable to normal open access consumers. If they are in different distribution areas, the user shall pay charges mentioned above to each licensee in addition to the transmission charges and losses as applicable to normal open access consumers.</li> <li>• <b>For third party sale:</b> Wheeling shall be allowed on payment of transmission charges, wheeling charges and losses on the energy fed into the grid, 50% of CSS and additional surcharge, as applicable to normal open access consumers.</li> <li>• <b>Wheeling in more than one location:</b> Developers shall pay 5 paise per unit on the energy fed into the grid to the DISCOM in whose area the energy is consumed, in addition to the above mentioned transmission charges and losses as applicable.</li> <li>• <b>Wheeling below 100 kW:</b> Wheeling below 100 kW shall be allowed in the distribution area as the plant.</li> </ul>								

<p><b>Energy accounting</b></p>	<p><b>Case 1:</b></p> <ul style="list-style-type: none"> <li>• If the consumer does not take renewable attribute of hydel energy for meeting its RPO, energy generated by the hydel project shall be set off against consumption during the consumer’s billing cycle.</li> <li>• For net import of power, DISCOM will charge applicable tariff of respective category to the consumer including fixed/demand charge, energy charges, peak charge, other charge/penalty, etc., as applicable to other consumers.</li> <li>• Surplus power, after giving set off, shall be purchased by DISCOM at Average Power Purchase Cost (APCC) of the year of commissioning of the plant. Fixed/demand charge, energy charges, peak charge, other charge/penalty etc., as applicable to other consumers.</li> <li>• Entire generation shall be considered for fulfilling RPO of DISCOM.</li> </ul> <p><b>Case 2:</b></p> <ul style="list-style-type: none"> <li>• If the consumer takes renewable attributes of hydel energy consumed for meeting its RPO, then energy accounting shall be on 15-minute time block basis.</li> <li>• For net import of power, DISCOM will charge applicable tariff of respective category to the consumer including fixed/demand charge, energy charges, peak charge, other charge/penalty etc., as applicable to other consumers.</li> <li>• Surplus power, after giving set off, shall be purchased by DISCOM at APPC of the year of commissioning of the plant. Fixed/demand charge, energy charges, peak charge, other charge/penalty etc., as applicable to other consumers.</li> <li>• Surplus generation shall be considered for fulfilling RPO of DISCOM.</li> </ul> <p><b>Case 3:</b></p> <ul style="list-style-type: none"> <li>• If registered under REC mechanism: Energy accounting shall be based on fifteen-minute time block basis.</li> <li>• For net import of power, DISCOM will charge applicable tariff of respective category to the consumer including fixed/demand charge, energy charges, peak charge, other charge/penalty, etc., as applicable to other consumers.</li> <li>• Surplus power, after giving set off, shall be purchased by DISCOM at 85% of APPC of the year of commissioning of the plant. Fixed/demand charge, energy charges, peak charge, other charge/penalty, etc., as applicable to other consumers.</li> </ul>
<p><b>Sharing of CDM benefits</b></p>	<ul style="list-style-type: none"> <li>• In case the DISCOM purchases power on FiT basis, CDM benefits shall be shared on net proceeds, starting from 100% to power producer in the first year and reducing 10% every year till sharing becomes equal between power producer and procurer. Thereafter, sharing may remain same till benefits are accrued.</li> <li>• In case of power purchase by DISCOM through competitive bidding, the same shall be as per terms and conditions of the bid.</li> </ul>
<p><b>Links</b></p>	<p><a href="https://geda.gujarat.gov.in/policies_state.php">https://geda.gujarat.gov.in/policies_state.php</a></p>
<p><b>References</b></p>	<p><a href="https://geda.gujarat.gov.in/policy_files/GUJARAT_SMALL_HYDEL_POLICY_2016.pdf">https://geda.gujarat.gov.in/policy_files/GUJARAT_SMALL_HYDEL_POLICY_2016.pdf</a></p>