

## Gujarat Renewable Energy Tariff Orders\*

### HIGHLIGHTS

<b>Tariff Period</b>	<b>Technology</b>	<b>No. of Years</b>
	Small, mini, micro hydro	35
	Wind	25
	Solar PV, solar thermal	Not available
	MSW, RDF	20
<b>Control Period</b>	<b>Technology</b>	<b>Period</b>
	Small, mini, micro hydro	December 14, 2016 to March 31, 2019
	Wind	August 3, 2016 to March 31, 2019
	Solar PV, solar thermal	July 1, 2015 to March 31, 2018
	MSW, RDF	November 10, 2016 to March 31, 2019
<b>Useful Life of a Plant</b>	<b>Technology</b>	<b>No. of Years</b>
	Small, mini, micro hydro	35
	Wind, solar PV, solar thermal	25
	MSW, RDF	20

<b>Technology-wise Net Tariff</b>	<b>Technology</b>			<b>Net Tariff (in Rs./kWh)</b>
	Small, mini, micro hydro below 5 MW			3.94
	Small, mini, micro hydro (5 MW to 25 MW)			3.29
	Wind			4.19
	Solar PV	Large rooftop and megawatt scale projects	April 1, 2016 to March 31, 2017	5.74
			April 1, 2017 to March 31, 2018	5.34
		Kilowatt scale projects	April 1, 2016 to March 31, 2017	7.11
			April 1, 2017 to March 31, 2018	6.61
	Solar thermal			10.11
	MSW to energy	Mass incineration		6.31
RDF incineration		6.67		

<b>Capital Cost</b>	<b>Technology</b>		<b>Capital Cost (in Rs. lakh/MW)</b>
	Small, mini, micro hydro below 5 MW		820.00
	Small, mini, micro hydro (5 MW to 25 MW)		748.00
	Wind		615.00
	Solar PV (large rooftop and megawatt scale projects)		615.00
	Solar PV (kilowatt scale systems)		00.80
	Solar thermal		1200.00
	MSW	Mass incineration	1600.00
		RDF	900.00
	<b>Operation and Maintenance (O&amp;M) Expenses</b>	<b>Technology</b>	
Small, mini, micro hydro (below 5 MW)		3.3% of capital cost	
Small, mini, micro hydro (5 MW to 25 MW)		2.5% of capital cost	
Wind		Rs.9.9 lakhs/MW	
Solar PV (large rooftop and megawatt scale projects)		Rs.10.90 lakhs/MW/annum	
Solar PV (kilowatt scale systems)		Rs.0.01 lakhs/ kW/ annum	
Solar thermal		1.5% of capital cost	
MSW		Mass Incineration	6% of the project cost
		RDF	5% of the project cost
• Escalation at the rate of 5.72% per annum from second year onwards.			
<b>Interest Rate on Loans</b>	<b>Technology</b>		<b>Interest Rate</b>
	Small, mini, micro hydro		11.40%
	Wind, MSW		11.80%
	Solar PV, solar thermal		12.70%

<b>Depreciation</b>	<b>Technology</b>	<b>Depreciation</b>
	Small, mini, micro hydro, wind, MSW	7% for first 10 years and remaining depreciation is spread over the residual useful life of the project.
	Solar PV, solar thermal	6% for first 10 years and remaining depreciation is spread over the residual useful life of the project.
<b>Return on Equity</b>	<b>Technology</b>	<b>Return on Equity</b>
	Small, mini, micro hydro, wind, MSW	14% plus tax
	Solar PV, solar thermal	14%
<b>Interest on Working Capital</b>	<b>Technology</b>	<b>Rate</b>
	Small, mini, micro hydro	11.40%
	Wind, MSW	11.80%
	Solar thermal, solar PV	11.85%

## OTHER PROVISIONS

<b>Tariff structure and design</b>	Single part, levellised, generic tariff.
<b>Merit Order Dispatch principles</b>	'Must run' power plants and thereby not subject to merit order dispatch principle.
<b>Subsidy or/and incentives by government</b>	<ul style="list-style-type: none"> <li>• Benefits of accelerated depreciation have been included in tariff.</li> <li>• Any other benefits such as capital subsidy, grants provided by central or state government shall be deducted by distribution licensee in subsequent billing for micro, mini and small hydro projects.</li> <li>• GBI shall be retained by the generator over and above tariff for wind projects.</li> <li>• All subsidies shall be passed on to the purchaser of electricity for MSW to energy projects.</li> </ul>

<b>Rebate</b>	Not available
<b>Latepayment surcharge</b>	Not available
<b>Links</b>	<a href="http://www.gercin.org/orders.aspx?o_cat=2">http://www.gercin.org/orders.aspx?o_cat=2</a>
<b>References</b>	<a href="http://www.gercin.org/uploaded/document/8d4272cd-621a-465d-94b9-7ed09f8a9c7c.pdf">http://www.gercin.org/uploaded/document/8d4272cd-621a-465d-94b9-7ed09f8a9c7c.pdf</a> <a href="http://www.gercin.org/uploaded/document/07c74229-5dc4-4406-89d3-25a82fa0931b.pdf">http://www.gercin.org/uploaded/document/07c74229-5dc4-4406-89d3-25a82fa0931b.pdf</a> <a href="http://www.gercin.org/uploaded/document/037d2cbc-6127-43c0-83d8-fa4877c077da.pdf">http://www.gercin.org/uploaded/document/037d2cbc-6127-43c0-83d8-fa4877c077da.pdf</a> <a href="http://www.gercin.org/uploaded/document/ac6e8efc-297b-408a-ac92-4c89c74c7501.pdf">http://www.gercin.org/uploaded/document/ac6e8efc-297b-408a-ac92-4c89c74c7501.pdf</a>

\*Gujarat does not have individual technology-wise regulations. The above summary is a compilation of the various orders that have been published till date.