Renewable Energy Tariff Orders, 2018

HIGHLIGHTS

Tariff Period	Technology	No. of Years
	Wind, Solar PV	25
	Biomass and Bagasse based co-generation	20
Control Period	Technology	No. of Years
	Wind	2 years from 13 April 2018
	Solar PV	1 year from 28 March 2018
	Biomass based generation	2 years from 28 March 2018
	Bagasse based co-generation	2 years from 1 April 2018
Useful Life of a Plant	 Technology	No. of Years
	Wind and Solar	25
	Biomass and Bagasse based co-generation	20

Technology	Net Tariff (Rs./kWh)
Wind	2.80
Solar PV	3.05
Biomass (1st year)	5.89
Biomass (2nd year)	6.11
Bagasse based co-generation (1st year)	5.36
Bagasse based co-generation (2nd year)	5.53
 Technology	CUF/ PLF(%)
Wind	29.15
Solar PV	19.00
Biomass	80.00
Bagasse based co-generation	55.00
	Aux. Cons. (%)
Biomass	10.00
Bagasse based co-generation	8.50
	Capital Cost (in Rs. lakh/MW)
Wind	525.00
Solar PV	350.00
Biomass	550.00
Bagasse based co-generation	520.00
	Solar PV Biomass (1st year) Biomass (2nd year) Bagasse based co-generation (1st year) Bagasse based co-generation (2nd year) Technology Wind Solar PV Biomass Bagasse based co-generation Technology Biomass Bagasse based co-generation Technology Biomass Bagasse based ro-generation

	Technology	O&M Expenses		
Operation and Maintenance (O&M) Expenses	Wind	1.1% on 85% of capital cost and 0.22% on balance 15% of capital cost wi escalation of 5% per annum.		
	Solar PV	1.4% of capital cost with 5.72% escalation per annum.		
	Biomass	5% on 85% of capital cost and 0.9% on balance 15% of capital cost with 5.72% escalation per annum.		
	Bagasse based co-generation	Rs.22.34 lakh/MW with 5.72% escalation per annum.		
Interest Rate on Loan	9.95%			
	Technology	Depreciation		
	Wind	3.6% of capital cost.		
Depreciation	Solar PV	3.6% on 95% of capital cost.		
-	Biomass and Bagasse co-generation	4.5% on 85% of capital cost.		
Return on Equity	Pre-tax @ 17.56% per annum.			
Interest on Working Capital				
	Technology	SHR (kCal/kWh)		
Station Heat Rate (SHR)	Biomass	3840		
	Bagasse based co-generation	3240		
Gross Calorific Value (GCV)	 Technology	GCV (kCal/kg)		
	Biomass	3200		
	Bagasse based co-generation	2300		

OTHER PROVISIONS

Tariff Structure and Design	chnology Tariff Structure	
	nd and solar Single part, levelised tariff	
	Biomass and bagasse co-generation	Two part tariff
Merit Order Despatch Principle		
Subsidy or/and Incentives by Government		
Rebate	Technology	Rebate
	Biomass	1% for payment within 1 month of presentation of bills.
	Bagasse based co-generation	1 176 for payment within 1 month of presentation of bins.

	Technology	Interest		
Late Payment Interest	Wind	1% per month for payment made beyond 60 days of presentation of bills.		
	Solar PV			
	Biomass			
	Bagasse based co-generation			
Banking of Power	 New wind energy generating machines in the normal category or under REC schemes are eligible for banking energy for period of one month. Price of unutilized banked energy will be 75% of wind energy tariff for normal captive users. Price of unutilized banked energy will be 75% of pooled cost of power purchase under REC schemes. No banking for third party sale. 			
	Technology	Charges (% of charges applicable to conventional power)		
Transmission.	Wind	50		
Wheeling,	Solar PV	40		
Scheduling and	Biomass	60		
System Operation charges and losses	Bagasse based co-generation	70		
charges and losses	 For projects registered under REC scheme, charges will be equal to that applied to conventional power. Generators will have to bear actual losses in kind. 			
	Technology	Charges (% of charges applicable to conventional power)		
Cross Subsidy Surcharge	Wind, solar PV, biomass and bagasse based co-generation	60		
Metering	As per following regulations: - • Central Electricity Authority (Installation and Operation of Meters) Regulations. • Tamil Nadu Electricity Distribution and Supply Codes. • Tamil Nadu Electricity Grid Code. • Tamil Nadu Electricity Regulatory Commission Grid-connectivity and Intra-state Open Access Regulations, 2014. • Tamil Nadu Electricity Regulatory Commission Intra-state Open Access Regulations, 2005 (Bagasse based co-generation).			
Links	http://www.tnerc.gov.in/			
References	http://www.tnerc.gov.in/			