

2023 Feed-In Tariffs of Renewable Energy

Attachment 1 The 2023 Feed-in Tariff of Renewable Energy (Except Solar PV)

Renewable Energy Type	Category	Device Capacity Range	Feed-in Tariffs (TWD/kWh)		
Wind	Land	1 kW and above but under 30 kW	7.4110		
		30 kW and above	Installed LVRT	2.1286	
	Non Installed LVRT		2.0949		
	Offshore	1 kW and above	Fixed 20-year Tariff	4.5085	
			Phased tariffs	The 1 st 10 years	5.1438
The 2 nd 10 years				3.4026	
Biomass	Non-anaerobic digestion facilities	1 kW and above	2.8066		
	Anaerobic digestion facilities	1 kW and above	7.0089		
	Agricultural and Forestry plant	1 kW and above	3.1187		
Waste	General and General industrial wastes	1 kW and above	3.9482		
	Agricultural waste	1 kW and above	5.1407		
Small Hydropower	-	1 kW and above but under 500 kW	4.8936		
		500 kW and above but under 2,000 kW	4.2285		
		2,000 kW and above but under 20,000 kW	2.8599		
Geothermal	-	1 kW and above but under 2,000 kW	Fixed 20-year Tariff	5.9406	
			Phased tariffs	The 1 st 10 years	7.3188
				The 2 nd 10 years	3.6416
		2,000 kW and above	Fixed 20-year Tariff	5.1956	
			Phased tariffs	The 1 st 10 years	6.1710
The 2 nd 10 years	3.5685				
Marine	-	1 kW and above	7.3200		

Note 1 : Where the above chart is application, offshore wind power generation facilities with actual power generated above 4,200 kWh/kW-yr and below 4,500 kWh/kW-yr during the tariff payment duration have a FiT rate of 3.3814 TWD/kWh that is 25 percent off the fixed 20-year tariff; facilities with actual power generated above 4,500 kWh/kW-yr during the tariff payment duration have a FiT rate of 2.2543 TWD/kWh that is 50 percent off the fixed 20-year tariff.

Note 2 : Vendors can choose either one of the fixed 20-year tariff or phased tariffs, and may not switch afterwards. As for those who terminate the contract and switch to direct supply or wheeling of power according to the Electricity Act, the vendors must return the feed-in

tariff cost difference of the fixed 20-year tariff or phased tariffs based on the actual power generation during the tariff payment duration.

Note 3 : For renewable energy facilities that allocate development funds in accordance with the Electricity Act starting in 2023, the FiT rate will also include the allocation rate as prescribed by the “Percentage Allocation of Fund to Facilitate the Development of Electric Power on Electricity Generation, Transformation and Distribution Facilities.”

Note 4 : Renewable energy power generation facilities using natural forest and plantation forest wood and other native wood, by-products and residues of wood processing industry, used wood without chemical treatment, herbaceous biomass, fruit biomass, aquatic biomass and biomass blends, and other raw material mixtures, or the pellet fuel produced by them as material source is applicable to the Agricultural and Forestry plant FiT rate.

Note 5 : Renewable energy power generation facilities that uses plant-based agricultural waste that has been certified by the competent agricultural authority as the material source, or wood waste such as road trees and wooden pallets certified by the environmental protection authority as a material source is applicable to the agricultural waste FiT rate.

Note 6 : If geothermal energy and small hydropower equipment are installed in indigenous areas that meet the requirements of "Incentive Measures for Indigenous Areas to Participate in Renewable Energy Installation Demonstration", the mark-up rate is 1%.

Note 7 : Ministry of Economic Affairs may take into consideration the advancement of renewable energy, changes of costs, achievement of targets, and related factors, or the practical needs and changing circumstances, a review meeting may be held to review or revision of the rates.

Attachment 2 The 2023 Feed-in Tariff of the Solar PV

Renewable Energy Type	Category	Device Capacity Range		First phase Max. rate (TWD/kW)	Second phase Max. rate (TWD/kW)
Solar PV	Roof-top system	1 kW and above but under 20 kW		5.8952	5.7848
		20 kW and above but under 100 kW	Without Grid-Connection Fee	4.5549	4.4538
			With Grid-Connection Fee	4.4861	4.3864
		100 kW and above but under 500 kW		4.0970	3.9666
		500 kW and above		4.1122	3.9727
	Ground mounted system	1 kW and above		4.0031	3.8680
	Floating system	1 kW and above		4.3960	4.2612
	<p>Note 1: For renewable energy facilities that allocate development funds in accordance with the Electricity Act starting in 2023, the FiT rate will also include the allocation rate as prescribed by the “Percentage Allocation of Fund to Facilitate the Development of Electric Power on Electricity Generation, Transformation and Distribution Facilities.”</p> <p>Note 2 : Ministry of Economic Affairs may take into consideration the advancement of renewable energy, fluctuations of costs, achievement of targets, and related factors, or practical needs and changing circumstances, and convene approval meetings for review or revision of the rates.</p>				

Attachment 3 The 2023 Feed-in Tariff Markups of the Solar PV

Category	Device Capacity Range	Module Recycling Cost (TWD/kWh)	Roof-top solar PV facilities Grid connection construction fee (TWD/kWh)			Solar VPC Modules (TWD/kWh)	Indigenous or Remote Areas (TWD/kWh)	Aquaculture Environment ally-Friendly Provident Fund (TWD/kWh)	Dual-Use of Land (TWD/kWh)			
			Low Voltage		High Voltage				Agricultural or Aqua-cultural Management Combined with Green Energy Facilities	Land Use of Freeway Service Area Parking Lot	Covered Playground	Corrugated Metal Sheet for Covered Playground
			50 kW and above but under 100 kW	100 kW and above but under 500 kW	50 kW and above but under 2,000 kW							
Roof-top system	1 kW and above but under 20 kW	0.0656	0.0688	0.0964	0.0413	0.3471	0.0578	0.0387	0.1934	--	--	--
	20 kW and above but under 100 kW					0.2672	0.0445					
	100 kW and above but under 500 kW					0.2380	0.0397					
	100 kW and above					0.2384	0.0397					
Ground mounted system	1 kW and above			--			0.2321	0.0387			0.2321	0.3868
floating system	1 kW and above					0.2557	0.0426		--	--	--	--

Note 1 : According to the “Roof-top Solar PV Facilities Grid-Connection and Renewable Energy Facilities Entrusted Construction Fees Calculation”, vendors who pay grid-connection construction fees are subjected to FiT markups for grid connection of roof-top solar PV facilities listed in this chart, which refers to the voltage level, capacity and progressive calculation method. Multiply the FiT markups for grid-connection for rooftop solar PV facilities by the capacity of the attached device in the chart, divide by the total device capacity (rounded to the fourth decimal place), and add FiT markups for Roof-top solar PV facilities Grid connection construction fee.

Note 2 : Ministry of Economic Affairs may take into consideration the advancement of renewable energy, fluctuations of costs, achievement of targets, and related factors, or practical needs and changing circumstances, and convene approval meetings for review or revision of the rates.

Attachment 4 The 2023 Solar PV Facilities Feed-in Tariff Markups for Connection to the EHV Grid

Category	Device Capacity Range	EHV Booster Station Transmission Line Transmission Line Length (km)*FiT Markup (TWD/kWh)		GIS Booster Station (TWD/kWh)		Booster Station Excluding GIS (TWD/kWh)	
		69kV	Above 161kV	69kV	Above 161kV	69kV	Above 161kV
Roof-top system	1 kW and above but under 20 kW	Overhead Line:0.0260 Underground Cable:0.0474	Overhead Line:0.0084 Underground Cable:0.0289	Indoor: 0.6566 Outdoor: 0.4690	Indoor:0.5159 Outdoor: 0.3283	0.4690	0.3283
	20 kW and above but under 100 kW						
	100 kW and above but under 500 kW						
	500 kW and above						
Ground mounted system	1 kW and above						
Floating system	1 kW and above						

Note 1 : Vendors connected to EHV transmission lines and have installed or shared booster stations are subjected to the FiT markups calculated by multiplying length of transmission line in kilometer by the FiT markups (rounded to the fourth decimal place). The length of the transmission line is determined by the following methods:

- (1) Installer of Booster Station: The length of transmission line confirmed during inspection by the booster station installer at the completion of the solar PV facility.
- (2) Tenant of Booster Station: The length of transmission line confirmed during inspection by the booster station installer at the completion of the solar PV facility; if the installer’s solar PV facility is unfinished and yet to be inspected, the length shall be confirmed during inspection at completion and the FiT markups is retrospective.

Note 2 : Vendors connected to EHV transmission lines and have installed or share GIS booster stations are subjected to FiT markups for indoor (obtaining usage license according to Building Act) or outdoor GIS booster stations.

Note 3 : The FiT markups of the new shared booster station in compliance with article 4 and item 4 of the "Operation Directions of Installation and Capacity Allocation of Shared Booster Stations for the Photovoltaic-based Electricity Generating Enterprises" shall be added according to the utilization rate of the shared booster station. When the utilization rate of the shared booster station changes, the adjusted FiT markups takes effect from the date of completion of the new connected PV facility, and applies to all solar PV facilities connected to the same shared booster station. The aforementioned utilization rate is calculated by dividing the grid-connected capacity of the booster station by the total capacity of the booster station (rounded up to the fourth decimal place). If the booster station capacity has been expanded, the utilization rate is based on the expanded part of the booster which calculated by dividing the grid-connected capacity of the station by the total capacity of the booster station in the expansion part.

- (1)If the shared booster station has been in operation for 1 to 20 years (calculated from the date of completion of the first solar PV facility connected to the shared booster station) with the utilization rate less than 70%, the FiT markups in this chart shall be divided by the utilization rate and then multiplied by 70% (rounded to the fourth decimal place).
- (2)Since the 21st year of operation of the shared booster station, if the utilization rate is more than 30% but less than 100%, the FiT markups in this chart shall be divided by the utilization rate and then multiply by 30%.
- (3)For the shared booster station in operation for 1 to 20 years with utilization rate over 70%; or less than 30% or over 100% since the 21st year of utilizing: the FiT markups shall be added according to the chart.

Note 4 : Ministry of Economic Affairs may take into consideration the advancement of renewable energy, fluctuations of costs, achievement of targets, and related factors, or practical needs and changing circumstances, and convene approval meetings for review or revision of the rates.

Attachment 5 The 2023 Renewable Energy Booster Power Markups for all Type

Renewable Energy Type	Category	Device Capacity Range	Booster Power Grid	
			Transmission Level(TWD/kWh)	Distribution Level(TWD/kWh)
Solar PV	Roof-top system	1 kW and above but under 20 kW	0.0866	0.1356
		20 kW and above but under 100 kW		
		100 kW and above but under 500 kW		
		500 kW and above		
	Land	1 kW and above		
	Floating system	1 kW and above		
Wind	Land	1 kW and above but under 30 kW	0.0633	0.0968
		30 kW and above	0.0443	0.0678
Biomass	Non-anaerobic digestion facilities	1 kW and above	0.0198	0.0303
	Anaerobic digestion facilities	1 kW and above	0.0191	0.0292
	Agroforestry	1 kW and above	0.0159	0.0244
Waste	General and General Industrial Wastes	1 kW and above	0.0154	0.0235
	Agricultural Waste	1 kW and above	0.0198	0.0303
Small Hydropower	-	1 kW and above but under 500 kW	0.0295	0.0452
		500 kW and above but under 2,000 kW	0.0295	0.0452
		2,000 kW and above but under 20,000 kW	0.0274	0.0418
Geothermal	-	1 kW and above but under 2,000 kW	0.0173	0.0265
		2,000 kW and above	0.0173	0.0265
Marine	-	1 kW and above	0.0191	0.0292

Note 1 : Venders that pay the average unit price of the connected grid at transmission or distribution level according to the “Renewable Energy Power Grid Bolstering Expense Distribution Principles and Calculation”, refer to the chart listed above for voltage, capacity range and progressive calculation of the aforementioned calculation method, the FiT markups for booster power grid shall be added; vendors that pay for both the average unit price of the connected grid at transmission or distribution level according to the “Renewable Energy Power Grid Bolstering Expense Distribution Principles and Calculation” and grid-connection construction fees according to “Roof-top Solar PV Facilities Grid-Connection and Renewable Energy Facilities Entrusted Construction Fees Calculation”, multiply the FiT markups for booster power grid by the capacity of the attached device in the chart, divide by the total device capacity (rounded to the fourth decimal place), and add FiT markups for booster power grid.

Note 2 : Ministry of Economic Affairs may take into consideration the advancement of renewable energy, fluctuations of costs, achievement of targets, and related factors, or practical needs and changing circumstances, and convene approval meetings for review or revision of the rates.