

भारत सरकार
केन्द्रीय विधुत प्राधिकरण
(विधुत मंत्रालय)
सेवा भवन (उत्तरी खंड) कक्ष सं. 622, छठा तल,
आर.के.पुरम, नई दिल्ली-110066
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वेबसाइट - www.cea.nic.in

सार्वजनिक नोटिस

विधुत अधिनियम, 2003 की धारा 177 के तहत प्रदत्त शक्तियों का प्रयोग करते हुए केन्द्रीय विधुत प्राधिकरण (के.वि.प्रा.) द्वारा केन्द्रीय विधुत प्राधिकरण (सांख्यिकी, विवरणी और सूचनाओं की प्रस्तुति) विनियम, 2007 को दिनांक 19.04.2007 को अधिसूचित किया गया था। उक्त विनियमों के विनियम 9 के उप-विनियम (2) के तहत प्रदत्त शक्तियों का प्रयोग करते हुए, अब उपरोक्त विनियमों के 21 प्रारूपों को जोड़ने का प्रस्ताव है। जोड़ने के लिए प्रस्तावित प्रारूप, के.वि.प्रा की वेबसाइट www.cea.nic.in पर उपलब्ध हैं। उक्त विनियमों में प्रस्तावित प्रारूपों का निरीक्षण **31 मई, 2022** तक 11:00 बजे से 16:00 बजे तक किसी भी कार्य दिवस को मुख्य अभियंता (विधि), के.वि.प्रा, कमरा नं. 622, सेवा भवन (उत्तरी खंड), छठा तल, आर.के.पुरम, नई दिल्ली-110066 के कार्यालय में भी किया जा सकता है।

2. सभी हितधारकों एवं जनता से अनुरोध है कि वे उक्त विनियमों में जोड़ने हेतु प्रस्तावित प्रारूपों पर अपनी टिप्पणी/सुझाव/आपत्ति, ई-मेल (celegal-cea@gov.in) अथवा डाक के माध्यम से मुख्य अभियंता (विधि), के.वि.प्रा, कमरा नं. 622, सेवा भवन, (उत्तरी खंड), 6वां तल, आर.के.पुरम, नई दिल्ली-110066 को **31 मई, 2022** तक भेजने का अनुरोध किया जाता है।

(राकेश गोयल)
सचिव, के.वि.प्रा.

**GOVERNMENT OF INDIA
CENTRAL ELECTRICITY AUTHORITY
(MINISTRY OF POWER)
Sewa Bhawan (North Wing), Room No. 622, 6th Floor,
R. K. Puram, New Delhi-110066
Tel. -011-26732632, email: celegal-cea@gov.in
Website: www.cea.nic.in**

PUBLIC NOTICE

In exercise of the powers conferred under section 177 of the Electricity Act, 2003, the Central Electricity Authority (CEA) had notified “Central Electricity Authority (Furnishing of Statistics, Returns and Information) Regulations, 2007” on 19.04.2007. In exercise of the powers conferred under sub-regulation (2) of regulation 9 of the said regulations, it is now proposed to add 21 nos. formats in the aforementioned regulations. The formats proposed for addition are available on website of CEA: www.cea.nic.in. The proposed formats of the said regulations can also be inspected in the office of Chief Engineer (Legal), CEA, Sewa Bhawan (North Wing), Room No. 622, 6th Floor, R. K. Puram, New Delhi 110066 on any working day till **31st May, 2022** between 1100 hrs to 1600 hrs.

2. All the Stakeholders and members of public are requested to send their comments/ suggestions/ objections on the proposed addition of formats in the said regulations through e-mail (celegal-cea@gov.in) or by post to Chief Engineer (Legal), CEA, Sewa Bhawan (North Wing), Room No. 622, 6th Floor, R. K. Puram, New Delhi-110066 latest by **31st May, 2022**.

(Rakesh Goyal)
Secretary, CEA

[To be published in the Gazette of India, Extraordinary, Part III, Section 4]

Central Electricity Authority

NOTIFICATION

New Delhi, the _____, 2022

F No.....Whereas in exercise of the powers conferred under section 177, read with Section 74 and clause (i) of Section 73 of the Electricity Act, 2003, the Central Electricity Authority had notified the Central Electricity Authority (Furnishing of Statistics, Returns and Information) Regulations, 2007 (hereinafter to be referred as the “said regulations”) on 10th April, 2007.

And whereas the said regulations consist of 65 formats for furnishing of the statistics, returns or information by the licensees, generating companies, person(s) generating electricity for its or his own use and person(s) engaged in generation, transmission, distribution, trading and utilization of electricity to the Central Electricity Authority.

And whereas the sub-regulation (2) of regulation 9 of the said regulations inter-alia provide for the methodology for addition of formats for furnishing of the statistics, returns or information its time schedule and periodicity through the notification after inviting objections or suggestions persons likely to be affected thereby.

Now, therefore, in exercise of the powers conferred by sub-regulation (2) of regulation 9 of the said regulations, the Central Electricity Authority hereby proposed to add the following formats in the Central Electricity Authority (Furnishing of Statistics, Returns and Information) Regulations, 2007, namely: -

FORMAT 66 (sheet 2 of 2)

PERIODICITY- Yearly

SUBMISSION BY- 31st March _____

REPORT ON POWER PURCHASE AGREEMENT (PPA) BY INDEPENDENT POWER PRODUCERS (IPPs)

| Date of End of Supply (dd-mm-yy) | Total Untied Capacity (in MW) | Source of Fuel (for Coal based sanction-whether Pit-head based or load center based) | Fuel Supply Agreement (Yes/No). If Yes, type and duration | Basis of Pricing (MoU/Cost Plus/ Competitive Bidding) | Tariff for the duration of PPA (in a separate sheet), showing fixed charge and fuel charge separately |
|----------------------------------|-------------------------------|--|---|---|---|
| 11 | 12 | 13 | 14 | 15 | 16 |
| | | | | | |

Name of Power Exchange:

Term Ahead Market (TAM) / Green-TAM- Data for Intraday/ Daily/Anyday/ Day Ahead Contingency/ Weekly contracts.

On Delivery Date Basis

| Date | Cleared Volume for delivery date (MWh) | Real Time Curtailement (MWh) | Actual Scheduled Volume for delivery date (MWh) | MCP (for the delivered volume of electricity) (Rs/MWh) |
|------------|---|---------------------------------|---|--|
| 01-MM-YYYY | | | | |
| 02-MM-YYYY | | | | |
| 03-MM-YYYY | | | | |
| 04-MM-YYYY | | | | |
| 05-MM-YYYY | | | | |
| 06-MM-YYYY | | | | |
| 07-MM-YYYY | | | | |
| 08-MM-YYYY | | | | |
| 09-MM-YYYY | | | | |
| 10-MM-YYYY | | | | |
| 11-MM-YYYY | | | | |
| 12-MM-YYYY | | | | |
| 13-MM-YYYY | | | | |
| 14-MM-YYYY | | | | |
| 15-MM-YYYY | | | | |
| 16-MM-YYYY | | | | |
| 17-MM-YYYY | | | | |
| 18-MM-YYYY | | | | |
| 19-MM-YYYY | | | | |
| 20-MM-YYYY | | | | |
| 21-MM-YYYY | | | | |
| 22-MM-YYYY | | | | |
| 23-MM-YYYY | | | | |
| 24-MM-YYYY | | | | |
| 25-MM-YYYY | | | | |
| 26-MM-YYYY | | | | |
| 27-MM-YYYY | | | | |
| 28-MM-YYYY | | | | |
| 29-MM-YYYY | | | | |
| 30-MM-YYYY | | | | |
| 31-MM-YYYY | | | | |
| Total | | | | |
| Minimum | | | | |
| Maximum | | | | |
| Average | | | | |

Name of Power Exchange:

Term Ahead Market (TAM) / Green-TAM- Data for Intraday/ Daily/Anyday/ Day Ahead Contingency/ Weekly contracts.

On Trade Date Basis

| Date | MCV for traded date (MWh) | Congestion for traded date (MWh) | Cleared Volume for traded date (MWh) | MCP (for the traded volume of electricity) (Rs/MWh) |
|----------------|----------------------------------|---|---|--|
| 01-MM-YYYY | | | | |
| 02-MM-YYYY | | | | |
| 03-MM-YYYY | | | | |
| 04-MM-YYYY | | | | |
| 05-MM-YYYY | | | | |
| 06-MM-YYYY | | | | |
| 07-MM-YYYY | | | | |
| 08-MM-YYYY | | | | |
| 09-MM-YYYY | | | | |
| 10-MM-YYYY | | | | |
| 11-MM-YYYY | | | | |
| 12-MM-YYYY | | | | |
| 13-MM-YYYY | | | | |
| 14-MM-YYYY | | | | |
| 15-MM-YYYY | | | | |
| 16-MM-YYYY | | | | |
| 17-MM-YYYY | | | | |
| 18-MM-YYYY | | | | |
| 19-MM-YYYY | | | | |
| 20-MM-YYYY | | | | |
| 21-MM-YYYY | | | | |
| 22-MM-YYYY | | | | |
| 23-MM-YYYY | | | | |
| 24-MM-YYYY | | | | |
| 25-MM-YYYY | | | | |
| 26-MM-YYYY | | | | |
| 27-MM-YYYY | | | | |
| 28-MM-YYYY | | | | |
| 29-MM-YYYY | | | | |
| 30-MM-YYYY | | | | |
| 31-MM-YYYY | | | | |
| Total | | | | |
| Minimum | | | | |
| Maximum | | | | |
| Average | | | | |

Name of Power Exchange:

Intraday/ Daily-Anyday/ Day Ahead Contingency/ Weekly contract wise TAM and Green-TAM data.

On Trade date basis

| Month | MCV for traded date (MU) | Congestion for traded date (MU) | Cleared Volume for traded date (MU) | MCP (for the traded volume of electricity) (Rs/kWh) |
|-------------------|---------------------------------|--|--|--|
| APR-YYYY | | | | |
| MAY- YYYY | | | | |
| JUN- YYYY | | | | |
| JUL- YYYY | | | | |
| AUG- YYYY | | | | |
| SEPT- YYYY | | | | |
| OCT- YYYY | | | | |
| NOV- YYYY | | | | |
| DEC- YYYY | | | | |
| JAN- YYYY | | | | |
| FEB- YYYY | | | | |
| MAR- YYYY | | | | |
| Total | | | | |

Name of Power Exchange:

Intraday/ Daily-Anyday/ Day Ahead Contingency/ Weekly contract wise TAM and Green-TAM data.

On Delivery date basis

| Month | Cleared Volume for delivery date (MU) | Real Time Curtailment (MU) | Actual Scheduled Volume for delivery date (MU) | MCP (for the delivered volume of electricity) (Rs/kWh) |
|-------------------|--|-----------------------------------|---|---|
| APR- YYYY | | | | |
| MAY- YYYY | | | | |
| JUN- YYYY | | | | |
| JUL- YYYY | | | | |
| AUG- YYYY | | | | |
| SEPT- YYYY | | | | |
| OCT- YYYY | | | | |
| NOV- YYYY | | | | |
| DEC- YYYY | | | | |
| JAN- YYYY | | | | |
| FEB- YYYY | | | | |
| MAR- YYYY | | | | |
| Total | | | | |

Provider: National Load Despatch Centre (NLDC)

| BILATERAL TRANSACTION DATA | | | | | | |
|-----------------------------------|---------------|----------------------------------|----------------------------|-----------------------------------|----------------------------|-----------------------------------|
| Entity Name | Region | Bilateral Transaction Buy | | Bilateral Transaction Sell | | Banking transactions (MU)* |
| | | Direct (MU) | Through Trader (MU) | Direct (MU) | Through Trader (MU) | |
| | | | | | | |
| | | | | | | |
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*** Banking energy quantum under bilateral transactions (MU) between the contracting parties to be shown here.**

Provider: National Load Despatch Centre (NLDC)

| CROSS BORDER TRADE DETAILS | | | | | | |
|-----------------------------------|----------------------------|----------------------------|----------------------------|--------------------------|--------------------------|---------------------------------|
| Sl. No. | Name of the Country | Name of the Traders | Types of Contracts* | Total Export (MU) | Total Import (MU) | Tariff details (Rs/ kWh) |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

* **MoU between Governments, any other instrumentalities, etc. through which the electricity transaction is taking place.**

Name of the Electricity Regulatory Commission:

DETAILS OF TARIFF ORDER AND TRUING UP ORDER BY THE ----- ELECTRICITY REGULATORY COMMISSION

| Sl. No. | Name of the Distribution Licensees/Transmission Licensees/generating companies, etc. | Date of application of the Tariff petition & Tariff year | Date of issue of the Tariff Order & Tariff year | Control Period of the Tariff Order & Tariff year | Date of application of the Truing up petition & Tariff year | Date of issue of the Truing up Order & Tariff year | Truing ups period Truing up Order & Tariff year |
|----------------|---|---|--|---|--|---|--|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Note: The detail information as per format needs to be furnished by Appropriate Commission after issuance of any tariff order, truing up order or any major change.

Provider: National Load Despatch Centre (NLDC)

Details of Deviation Settlement Mechanism (DSM) volume and Price.

| Region | Entity/ Beneficiary | DSM Volume (MU) | | Average DSM rate* (Rs/ kWh) |
|--------|---------------------|-----------------|--------|-----------------------------|
| | | Import | Export | |
| | | | | |
| | | | | |
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| | | | | |
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* Average Rate: Average of DSM rate for 96 time blocks

Daily Renewable Energy Generation

Installed Capacity (MW), Generation (MUs) and Curtailment (MUs) from Renewable Energy Sources (injected in to the GRID)

Date:

RLDC/SLDC/CPSU/Electricity Department/Project Developers:-

(A) Generation and Curtailment

| S. No. | Name of the Plant (location / district/ State) | Name of the Developer | Installed Capacity (MW) | Type [Wind(onshore/offshore)/solar {(Ground Mounted-PV/Solar Thermal) /Rooftop/Floating }/ Small Hydro/ Biomass/Bagasse/ Others*(Waste to energy etc) | Gross Energy Generation during the day (MUs) | Curtailment From (HH:MM) | Curta ilment To (HH:MM) | Dura tion Of Curt ailment (Hrs: Minu tes) | Cur tail me nt in M W | Curta ilment in MUs | Writte n Instru ction issued by concer ned author ities (Y/N) | Spe cific Rea son s for Cur tail me nt | Grid frequenc y at the time of Curtail ment | Instruction of curtailment in MW to individual generator or System wide % curtailment |
|--------|--|-----------------------|-------------------------|---|--|--------------------------|-------------------------|---|-----------------------|---------------------|---|--|---|---|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

Note: 1. The data in columns (3) to (5) are static data and need to be provided one time only for existing/ New Projects.

Remaining columns to be filled on Daily Basis.

2. For Solar Power Plants, only AC Installed Capacity is to be filled.

3. In case of 'Other', the source may be specified.

| | | | | | | | | | | | |
|----|---|-----|------|--|--|--|--|--|--|--|--|
| 8 | Small Hydro (upto 25 MW) | Jan | 2021 | | | | | | | | |
| 9 | Others(Waste to energy etc) (Source may be specified) | Jan | 2021 | | | | | | | | |
| 10 | Grand Total | Jan | 2021 | | | | | | | | |

Note: It shall be required for the power plants to also enter data in the Web application created by CEA for Renewable Energy

The Data shall be furnished by 10th of every month at Email: ce-rpmcea@cea.nic.in/cerpmcea@gmail.com .

Sector will be based on ownership of the plants.

If there is any change in previous data, the same shall be communicated separately so that it can be accounted for in the respective month.

This is a generation report for the Plants located within physical boundaries of the States hence imported power shall not be included. The report of Generation from ISGS Plants is collected separately.

Details of Monthly Plant wise Renewable Energy Generation and Curtailment

1. SLDC/CPSU/SNA/Electricity Department :

2. Month/Year :

| S. No. | Month | Year | Name of the Plant | Name of the Developer | Location/ district/ State | Installed Capacity (MW) | Type [Wind(onshore/offshore)/solar {(Ground Mounted- PV/Solar Thermal) /Rooftop/Floating}/ Small Hydro/ Biomass/Bagasse / Others*(Waste to energy etc) | Central Sector/ State Sector/ Private Sector | Generation (MUs) | RE Curtailment (MUs) | | | |
|--------|-------|------|-------------------|-----------------------|---------------------------------|-------------------------|---|--|------------------|----------------------------------|--|--------|-------|
| | | | | | | | | | | Curtailment due to Grid Security | Curtailment due to Transmission element overload | others | Total |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) |
| 1 | Jan | 2021 | Plant 1 | | | | | | | | | | |
| 2 | Jan | 2021 | Plant 2 | | | | | | | | | | |
| 3 | Jan | 2021 | | | | | | | | | | | |
| 4 | Jan | 2021 | | | | | | | | | | | |
| 5 | Jan | 2021 | | | | | | | | | | | |

Note: 1. The data in columns no. (4) to (9) are static data and need to be provided one time only for existing/ New Projects.

Remaining columns to be filled on Monthly Basis.

2. For Solar PV Power Plants, only AC Installed Capacity is to be filled.

3. In case of 'Other', the source may be specified.

Parameters of Renewable Energy Plants

Date:-

RE Developer:-

Wind Power plants

| S. No. | Items | Units | Description |
|--------|--|-------|-------------|
| | Type of Windfarm (offshore / Onshore) | | |
| | Turbine | | |
| 1 | Name of the Manufacturer | - | |
| 2 | Date and Year of Manufacturing | - | |
| 3 | Model | - | |
| 4 | Capacity | MW | |
| 5 | Date of Commissioning (dd/mm/yyyy) | - | |
| 6 | Hub height | m | |
| 7 | Total height | m | |
| 8 | Revolution per minute (RPM) range | rpm | |
| 9 | Rated wind speed | m/sec | |
| 10 | Type of Turbine (with Gear/ Without Gear) | - | |
| 11 | Type of Turbine (Horizontal Axis/ Vertical Axis) | - | |

| | | | |
|----|---|----------------|--|
| | Performance Parameters | | |
| 12 | Rated electrical power output at rated wind speed | MW | |
| 13 | Cut-in speed | m/sec | |
| 14 | Cut-out Speed | m/sec | |
| 15 | Survival speed (Maximum wind speed) | m/sec | |
| 16 | Ambient temperature for “out of operation” | °C | |
| 17 | Ambient temperature for “in operation” | °C | |
| 18 | Survival temperature | °C | |
| 19 | Low Voltage Ride Through (LVRT) setting | - | |
| 20 | High Voltage Ride Through (HVRT) setting | - | |
| 21 | Lightning strength | kA | |
| 22 | Noise level | dB | |
| | Rotor | | |
| 23 | Hub type (Rigid/Pitching/Hinged/Teetering/Other) | - | |
| 24 | Rotor diameter | m | |
| 25 | Number of blades | - | |
| 26 | Area swept by blades | m ² | |
| 27 | Rated rotational speed | rpm | |
| 28 | Rotational Direction (Clockwise/ Anticlockwise) | - | |
| 29 | Coning angle | Degree | |

| | | | |
|----|--|--------|--|
| 30 | Tilting angle | Degree | |
| 31 | Design tip speed ratio | No. | |
| | Blades | | |
| 32 | Length | m | |
| 33 | Diameter (of the blade cross-section) | m | |
| 34 | Material | - | |
| 35 | Twist angle | Degree | |
| | Generator | | |
| 36 | Type | - | |
| 37 | Number of poles | No. | |
| 38 | Generator speed | rpm | |
| 39 | Winding type | - | |
| 40 | Rated Voltage of generation | kV | |
| 41 | Rated frequency | Hz | |
| 42 | Stator current | A | |
| 43 | Rotor current | A | |
| 44 | Rated operating temperature | °C | |
| 45 | Type of cooling (air cooled)/ liquid cooled) | - | |
| 46 | Power factor (in decimal up to two digits) | No. | |
| 47 | Generation Capacity @Rated Wind speed | MW | |

| | | | |
|----|--|--------|--|
| 48 | Peak continuous generation capacity | MW | |
| 49 | Frequency Converter (Type –rotary/ solid state/other) | - | |
| 50 | Type of filter on generator side | - | |
| 51 | Type of filter on grid side | - | |
| | Transformer | | |
| 52 | Transformer capacity | MVA | |
| 53 | Transformer cooling type (specify) | - | |
| 54 | Voltage (Primary/Secondary) | kV | |
| 55 | Winding configuration (specify) | - | |
| | Weight | | |
| 56 | Rotor weight | kg | |
| 57 | Nacelle weight | kg | |
| 58 | Tower weight | kg | |
| 59 | Over speed Protection | - | |
| 60 | Design Life (years) | - | |
| 61 | Design Standard followed with year of publication | - | |
| 62 | Latitude(North/South) | degree | |
| 63 | Longitude(East/west) | degree | |
| 64 | Date of Commercial Operation (dd/mm/yyyy) | - | |
| 65 | Height of the location above mean sea level | m | |

| | | | |
|----|---|-----|--|
| 66 | Gap/distance between two adjacent wind turbines (in terms of rotor diameters) | No. | |
| 67 | Type of Communication system | - | |
| 68 | Type of VAR compensation device(SVC /STATCOM) | - | |
| 69 | Type of Storage device (if any) | - | |

Solar Power Plants

| S. No. | Items | Units | Description |
|---------------|--|--------------|--------------------|
| 1. | Type of Solar Power Plant {(Ground mounted- PV/solar thermal) /rooftop/ floating}/ small hydro/ biomass/bagasse/ others)) | - | |
| 2. | Latitude (North/South) | Degree | |
| 3. | Longitude (East/West) | Degree | |
| 4. | Elevation angle and orientation angle of arrays | Degree | |
| 5. | Elevation angle and orientation angles of concentrators | Degree | |
| 6. | The generation capacity of the generating facility (AC capacity) | MW | |
| 7. | Height of Location above mean sea level | m | |
| 8. | Date of commercial operation (dd/mm/yyyy) | - | |

| | | | |
|-----|---|----------------|--|
| 9. | Rated voltage | kV | |
| 10. | Details of type of mounting: (tracking technology, if used, single axis or dual axis, auto or manual) | - | |
| 11. | Manufacturer and Model (of Important Components, Such as Turbine, Concentrators, Inverter, Cable, PV Module, Transformer, Cables) | - | |
| 12. | DC installed Capacity | MW | |
| 13. | Module Cell Technology (crystalline Si/ thin films/bifacial, perovskite solar cells (PSCs)/other) | - | |
| 14. | I-V Characteristic of the module | - | |
| 15. | Inverter rating at different temperatures (including ambient temperature) | kW | |
| 16. | Inverter Efficiency Curve and maximum efficiency | - | |
| 17. | Transformer capacity & rating (Voltage ratings – primary and secondary, evacuation voltage, distance from injection point) | MVA/ kV/ km | |
| 18. | Type of Communication system | - | |
| 19. | Type of VAR compensation device(SVC /STATCOM) | - | |
| 20. | Type of Storage device (if any) | - | |

FORMAT-86
PERIODICITY- MONTHLY
SUBMISSION BY -

Details of commissioned Renewable Energy Plants

Date:-

Month:-

SLDC/SNA/CPSU/Electricity Department/RE Developer:-

| State: | | | | | | |
|---------------|--------------------------|--------------------------------|-------------|----------------------------|--------------|------------------------------|
| S. No. | Name of the Plant | Installed Capacity (MW) | Type | Location (District) | State | Date of Commissioning |
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| | Total | | | | | |

(Rakesh Goyal)
Secretary, Central Electricity Authority

Note: The principal regulations were published in the Gazette of India, Extraordinary, Part III, Section 4, vide notification F.No. CEA/PLG/LF/9/40/07, dated the 19th April, 2007.