

MOST IMMEDIATE

No.23/13/2017-R&R
 Government of India
 Ministry of Power

Shram Shakti Bhawan, Rafi Marg,
 New Delhi, dated 6th April, 2017

To,
 Chairperson,
 Central Electricity Authority,
 SewaBhawan, R.K. Puram
 New Delhi

Subject: Renewable Energy generators data communication system- reg.

Sir,

As per the provisions of Section 7 of Electricity Act 2003, any generating company may establish, operate and maintain a generating station without obtaining a license if it complies with the technical standards relating to connectivity with the grid. Significant electricity generating capacity addition has been achieved during 12th Plan period through conventional sources as well as non-conventional sources for Captive as well as non-Captive use.

2. However, it has been observed that data communication system for Discom embedded Renewable Energy generators (Solar, Wind, Roof-Top Solar etc) is not available in most of the cases, because of which real time generation data is not available. The availability of data communication system is very vital considering the Grid security aspects as well as proper metering and accounting purposes.

3. To have easy availability of the Generating Capacity (including RE capacity) installed in the country, it is desirable that a data Registry - at State as well as National level - be put in place for compilation of generation data of all kind of Generators (Conventional, Non-conventional, Non-captive, Captive, ISGS or InSGS). Similarly the data regarding captive generating capacity as available in CEA, because of existing regulatory framework is not very accurate as the responsibility for supplying the same is not very clear or not being implemented properly.

4. In view of the above, it has been decided that-

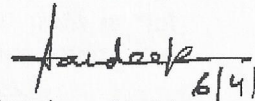
- (i) CEA to ensure that necessary rules and regulations regarding generation data communication including RE Generators are in place and being implemented in true spirit along with suitable monitoring mechanism / penal mechanism for non-compliance. In case there is a need that necessary advisory to be issued by Ministry of Power regarding ensuring

-2-

implementation of the CEA Regulations, it may be brought to the notice of this Ministry. If such rules and regulations are not yet issued then they need to be issued by CEA very urgently. CEA may also explore the possibility of getting information about new capacity addition (Conventional, Non-conventional, Non-captive, Captive, ISGS or InSGS) under various stages of construction for better planning purposes.

- (ii) The National level Registry to be maintained by Central Electricity Authority, where generation capacity data of all kind of Generators (Conventional, Non-conventional, Non-captive, Captive, ISGS or InSGS) will be available. The State level Registry shall be maintained at the respective SLDC's also generation capacity data of all kind of Generators (Conventional, Non-conventional, Non-captive, Captive) in the respective States will be available. The State level data should further be communicated to CEA and NLDC for maintaining record at National level on real time basis.
- (iii) The action taken in this regard be send to this Ministry in next two weeks.
5. This issues with the approval of Secretary, Ministry of Power.

Yours faithfully,


(Sandeep Naik)
Director
Tele No. 2371 5250



भारत सरकार
Government of India
केंद्रीय विद्युत प्राधिकरण



Central Electricity Authority
नवीकरणीय ऊर्जा उद्भव विकास प्रभाग
R E S Development Division

दूसरी मंजिल, सेवा भवन, आर.के.पुरम, नई दिल्ली-110066 (ISO: 9001-2008)
2nd Floor, Sewa Bhawan, R.K. Puram, New Delhi – 110066

Fax No. 011-26715402 Email: ceaopmwind@gmail.com

No. CEA/PLG/RES-7/2017/125-159.

Dated: 12.04.2017

To,

All SLDCs/States as per list enclosed .

Subject: **Compliance of CEA Regulations for Grid connectivity of Renewable Energy Sources – reg.**

Sir,

You may be kindly aware that Central Electricity Authority (CEA) had in exercise of its power conferred by Section 7 and clause (b) of Section 73 read with Sub-section (2) of Section 177 of Electricity Act, 2003, notified the Central Electricity Authority (Technical Standards for Connectivity to Grid) Regulations 2007 on 21st Feb, 2007. These Regulations are inter-alia applicable to all the generating projects including the renewables, which are getting connected to the grid at voltage level of 33 kV and above. The pertinent **Clauses 6(3) and 6(4)(b) of General Connectivity Conditions** of the said Regulations are reproduced below for ease of reference:

6(3) – *The requester and user shall provide necessary facilities for voice and data communication and transfer of on-line operational data, such as voltage, frequency, line flows, and status of breaker and isolator position and other parameters as prescribed by the Appropriate Load Despatch Centre.*

6(4) – *The requester and user shall cooperate with the Regional Power Committee, and Appropriate Load Despatch Centres in respect of the matters listed below, but not limited to :-*

(b) *agree to maintain meters and communication system in its jurisdiction in good condition; "*

2. Subsequently, CEA had also notified the Central Electricity Authority (Technical Standards for Connectivity of the Distributed Generation Resources) Regulations, 2013 on 30th Sept, 2013. These Regulations are applicable for "distributed generation resource" which means a generating station feeding electricity into the system at voltage level of below 33 kV. Needless to mention that these Regulations also cover the

renewable projects connected to the distribution licensee system at voltage level of below 33 kV. The relevant **Clause 4(4)** of **General Connectivity Conditions** of the said CEA Regulations is reproduced below for ready reference :

" 4(4) – The applicant and the user shall provide necessary facilities in the distributed generation resource for communication and storage of data and other parameters as may be stipulated by the appropriate licensee in a non-discriminatory manner."

3. In view of the relevant Clauses of the CEA Regulations cited above, it is obligatory for all the grid connected renewable generators to provide necessary facilities for data-communication and data-storage and other parameters as may be stipulated. The said CEA Regulations also places onus on the generating plants including renewables to co-ordinate with appropriate licensee on issues including but not limited to protection safety and metering.

4. With the above perspective as emerging from the CEA Regulations in force, the SLDCs are requested to take up the matter with all the renewable generators to ensure transfer of data to the appropriate Load Despatch Centre, so that the real time generation data is available with them for centralized monitoring.

Please indicate the present status in this regard and the action plan with definite time frame to ensure real time data telemetry from all the grid connected Renewable Generators/Plants to the SLDCs.

Yours faithfully,

HJ 12/4/2017

(Hemant Jain)

HJ Chief Engineer (RES Dev.)



भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
नवीकरणीय ऊर्जा उद्भव विकास प्रभाग
Renewable Energy Source Development Division

No. CEA/PLG/RES-7/2017/

Dated: 08.05.2017

To : All SLDCs/ Regulators (CERC/SERC/ FOR), Power Secretaries of States/Heads of Electricity Deptts, POSOCO (for RLDCs, NLDC), MNRE and PSUs/Organisations coming under MoP

विषय: नवीकरणीय ऊर्जा उत्पादन डेटा संचार प्रणाली के बारे में.
Subject: Renewable Energy Sources (RES) generation data communication system-reg

महोदय/Sir,

Reference is invited to our letter of even number dated 12-04-2017 (which was individually addressed to all SLDCs), regarding compliance of CEA Regulations for Grid connectivity of Renewable Energy Sources, a copy of which is attached for ready reference at **Annex-I**. A response to that letter from SLDC is still awaited. Kindly expedite the action taken on the same and send the inputs to this office on email ceaopmwind@gmail.com on immediate basis.

Further, Ministry of Power (MoP) vide their letter No. 23/13/2017-R&R dated 06-04-2017, has sought action to be taken regarding "**Renewable Energy generation data communication system**". Copy of MoP letter is **attached** herewith for ready reference.

MoP in its above referred letter has conveyed the following main decisions:

- 1) CEA to ensure that necessary rules and regulations regarding generation data communication including RE generators are in place and being implemented in true spirit alongwith the suitable monitoring mechanism/penal mechanism for non-compliance.
- 2) The National level Registry to be maintained by Central Electricity Authority (CEA), where generation capacity data of all kind of Generators (Conventional, Non-conventional, Non-captive, Captive, ISGS or InSGS) will be available. The State level Registry shall be maintained at the respective SLDC's also generation capacity data of all kind of Generators (Conventional, Non-conventional, Non-

captive, Captive) in the respective States will be available. The State level data should further be communicated to CEA and NLDC for maintaining record at National level on real time basis.

In this regard it is observed that the data communication system for Discom embedded Renewable Energy generators, (Solar, Wind Roof-Top Solar etc) is not available in a number of cases, because of which real time generation data is not available. The availability of data communication system is very vital considering Grid security aspects.

Further, to have availability of data of installed Generating Capacity (including RE capacity) in the country, it is desirable that a **data Registry-at State as well as National level** be put in place for compilation of generation data of all kind of Generators (Conventional, Non-conventional, Non-captive, Captive, ISGS or InSGS).

In view of the above, it is requested that in order to work out a necessary framework, inputs be collected from the relevant stakeholders. It is requested to send to CEA the relevant inputs including the suggestive framework of rules, regulations, appropriate mechanism, penal provisions for non-compliance and a fool proof mechanism of implementation of the framework.

An urgent early action in the matter is solicited.

कृपया पत्र की पावती दें/ Kindly acknowledge the receipt of the letter



(अशोक कुमार राजपूत)

मुख्य अभियंता (आर ई एस)

(A K Rajput), Chief Engineer (RES)

Copy for information and necessary action to:

1. PPS to Secretary (Power)
2. PPS to Chairperson (CEA)
3. PPS to Member (Planning), CEA
4. Chief Engineers (PDM, PSLF, IRP, OPM, DPD, PFA, NPC, GM, PSETD, PSP&A I & II)
5. Member Secretaries of Regional Power Committees.
6. Shri Sandeep Naik, Director, Ministry of Power, Shram Shakti Bhawan, New Delhi.