

पावर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
(पावरग्रिड की पूर्णतः स्वामित्व प्राप्त संस्था)

POWER SYSTEM OPERATION CORPORATION LIMITED
(A Wholly Owned Subsidiary Company of POWERGRID)



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संदर्भ संख्या / Ref. No.

POSOCO/NGP/

Dated: 29th October 2010

To,

Executive Director (Engg.-SEF)
POWERGRID
Gurgaon

Chief Engineer (SP&PA)
Central Electricity Authority
New Delhi-110066

Sub: Need for increasing the transfer capability towards Southern Region – reg.

Ref: 1. Clause 4(j) of the National Load Despatch Centre Rules, 2005
2. Operational feedback on transmission constraints dated 5th April 2010
3. Proposal for Static VAR Compensation (SVC) in SR and NR dated 24th June 2010

Sir,

As you are aware, congestion is occurring towards Southern Region very frequently leading to market splitting in Power Exchanges.

With better availability of gas, generation in North Coastal Andhra Pradesh has gone up and the flow on 400 kV Vijaywada-Nellore D/C line has often become an issue of concern. The situation would get worse in the coming months due to delay in commissioning of downstream generation (especially Kudankulam and Neyveli TPS expansion) and increase in demand. Generation at Simhadri (upstream) 500 MW unit is expected shortly and is likely to exacerbate the congestion.

There have been many instances when System Operators have been forced to transfer power from SR to ER through HVDC Gazuwaka (up to 500 MW) to relieve flows on the congested corridor during real time operation and are unable to transfer the required power to SR through the 1000 MW HVDC link at Gazuwaka. Hence, at present the Inter Regional import capability of SR is limited to 3000 MW.

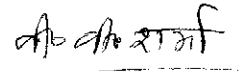
In order to cater high demand when availability of hydro and wind generation is low, Southern Region imports heavily during winter and spring, resulting in congestion.

Most of the wind potential is available in Southern, Western and Northern Regions. It is expected that lot of wind capacity addition will take place in near future. Variation in wind generation causes frequency fluctuation as well as changes in line loading. However there is diversity in wind generation in different regions and this helps in absorbing intermittency and variability of wind generation.

In view of the above, it is requested that planners may consider possibility of synchronous operation of SR grid with NEW grid by suitably enhancing the transmission capacity upstream and downstream of SR (including S2 region comprising of Tamil Nadu and Kerala) as early as possible. This would also enhance power transfer capability in either direction, facilitate merging of the two (settlement) markets and help in absorbing the renewable generation.

Thanking You,

Yours Faithfully


29/10/10
(V.V.Sharma)

General Manager, NLDC

Copy to: Secretary, CERC, New Delhi

पंजीकृत कार्यालय : बी-9, कुतुब इंस्टीट्यूशनल एरिया, कटवारिया सराय, नई दिल्ली-110016
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