



भारत सरकार
GOVERNMENT OF INDIA
विद्युत मंत्रालय
MINISTRY OF POWER
केन्द्रीय विद्युत प्राधिकरण
CENTRAL ELECTRICITY AUTHORITY
सेवा भवन, रामाकृष्णापुरम
बज़र लक्ष्मणपुर, उ.रु. छठडर
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Dated: 07.07.2011

All Members of 18th Electric Power Survey Committee

**Subject : Minutes of 3rd meeting of 18th Electric Power Survey Committee
(EPSC) held on 27th June, 2011.**

Dear Sir/Madam,

The Minutes of 3rd meeting of 18th EPSC held on 27th June,, 2011 are enclosed herewith for information & necessary action.

Yours faithfully,

Encl: As above

(Major Singh)
Chief Engineer (DMLF) &
Member Secretary (18th EPSC)
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2. Member (E&C), CEA
3. Chief Engineer (GM), CEA
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6. Director (PP), Ministry of Power, Sharam Shakti Bhawan, Rafi Marg, N.Delhi
7. Chief Engineer (IT), CEA – It is requested that the MoM may please be got uploaded on CEA website.

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(Major Singh)
Chief Engineer (DMLF) &
Member Secretary (18th EPSC)

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Member Secretary

MINUTES OF 3RD MEETING OF THE 18TH ELECTRIC POWER SURVEY COMMITTEE (EPSC) HELD ON 27TH June, 2011.

The 3rd meeting of the 18th EPSC was held under the chairmanship of Shri Gurdial Singh, Chairperson, CEA and Chairman, 18th EPSC at NRPC Conference Room, CEA on 27th June, 2011. The meeting was attended by members/representatives of 18th EPSC from various Ministries/Departments of Govt. of India, State TRANSCOs/SEBs, Power Departments and other concerned organizations.

The list of participants is given at **Annex**.

In the opening remarks, Chairperson, CEA welcomed all the participants and said that this meeting is convened mainly to discuss the views/suggestions of the members of EPSC on the draft report of 18th Electric Power Survey of India (Vol.I). He mentioned that since previous EPSC meeting held on 29th March, 2011, CEA have vigorously taken up with concerned authorities furnishing of requisite data for EPS based on which preliminary forecast of various states/UTs were prepared. Subsequently consultation meetings were held separately with most of the states as well as concerned State Electricity Regulatory Commissions (SERCs). The suggestions/views of state authorities on various aspects related to projected growth rate in various categories of consumption, programme for strengthening the infrastructure for Transmission, Distribution, capacity addition programme, implementation of RGGVY, impact of steps taken for improvement of energy efficiency was discussed. The views of SERCs on the projections for gradual reduction in T&D losses and load factor moderation were also considered during the meetings. He said that some of the states have cited very ambitious programme for adopting higher growth rate in various categories of consumption which may not be very realistic.

He said that the results of the forecast are vital input for formulation of 12th Plan document for generation planning, transmission & distribution infrastructure development. He further mentioned that observations/suggestions of the states were considered and appropriately incorporated in the draft report. The forecast for states who are yet to submit data, have been done based on the information available with CEA and requires to be reviewed/modified.

Chairman, EPSC indicated that the demand forecast by using econometric model is to be done for validation of the results by Partial End Use Method (PEUM). For this purpose, CEA had sought the proposals from all IITs, IIMs and other reputed organizations. He informed that CEA is in the process of preparing the specification for taking further action for awarding this assignment as consultancy work.

After the remarks of Chairman, EPSC, Member (Planning), CEA gave an over view of the projections in the draft report. He mentioned that the projections are primarily based on the data available in the Annual General Review prepared by CEA, power supply position reports brought out by GM division, CEA and reports of Regional Power Committees (RPCs) as well as the data/information furnished by State Authorities. He informed that most of the objectives of National Electricity Policy still remain unfulfilled as such fulfillment of the same are considered while carrying out studies for 18th EPSC. He added that the vision of the states, programme/policies formulated for achieving the objectives of NEP has been discussed with state authorities for adopting growth rate for various categories of consumption. He mentioned that some of the states have expressed difficulties in adopting the T&D loss reduction programme as projected in the draft report. Some states were of the view that the per capita consumption of 1000 Kwh as envisaged in the NEP could not be achieved. It was clarified that 1000 Kwh is the national average and states have to formulate their own programmes for improving the per capita consumption depending upon various factors such as capacity addition programme, industrial and other infrastructural development policy, RGGVY etc. He informed that as per draft report, there is marginal decrease in the energy requirements by end of 12th Plan as compared with 17th EPS. Member (Planning) informed that as per 18th EPS the pattern of sectoral consumption is also likely to change in the domestic, commercial and industrial categories. He said that a few organizations have shown keen interest in taking up the consultancy assignment of 18th EPS by econometric models and CEA is preparing the specification by and bringing the same to common platform for assigning this work. He further added that EPS of Mega Cities (Vol.II) is to be taken up by CEA for which concerned state authorities are required to furnish the complete data in the prescribed proforma.

Chief Engineer (DMLF) and Member Secretary, 18th EPSC made a power point presentation highlighting the details of various activities undertaken after the 2nd EPSC meeting held in March, 2011 and outlined the results of projections as per draft report. He also explained the key points discussed with various state organizations, SERCs, factors

considered for EPS and assumptions made for preparing the forecast. He informed that the base year for forecast is 2009-10 and the GDP growth for 12th plan is considered to be between 8-10%. CE (DMLF) said that the draft report contains yearwise projections for 12th plan period (2016-17) as well as 13th Plan (2021-22) and the projections for terminal year 2026-27 would be extrapolated. As per the draft report of 18th EPS, the energy requirements by end of 12th plan (2016-17) is 1348 BU as against 1392 BU in 17th EPSC. The all India T&D losses are proposed to be brought down from 24.15% to 17.09% by end of 12th plan and further reduced to 14.17% by end of 13th Plan. The states having comparatively lower T&D losses are required to bring down the losses to around 14% by end of 12th plan whereas the states which are having comparatively higher losses are required to bring down their T&D losses upto 14% by end of 13th Plan for which they are required to strengthen their T&D infrastructure in a phased manner.

The diversity factor for various regions is in the range of 1.076 to 1.201 whereas all India diversity factor is 1.040. The annual load factor for the states generally range between 65 to 70% by 2016-17 and the All India load factor is comparatively higher and is 78.38% for 2016-17 and 78.65% for 2021-22. The all India pattern of utilization in 2009-10 for domestic, commercial, irrigation and industrial and other categories of consumptions is 24.98%, 10.11%, 20.79%, 35.24% and 8.89% whereas as per 18th EPS projections for 2016-17 the pattern of utilization would be 25.96%, 10.52%, 20.32%, 34.95% and 8.26% respectively. By 2021-22 marginal increase in the pattern of consumption for domestic, commercial & industrial categories is anticipated as per 18th EPS projections. The action being taken for carrying out the EPS by econometric model was also outlined. CE (DMLF) informed that the break up of consumption for rural and urban areas for most of the states was not available as no separate feeders are being maintained for meeting the electricity requirement of urban and rural areas. It was also explained that the work of taking up EPS of mega cities is being taken up and the concerned states were urged to provide the input data to CEA.

At this juncture Shri V.S. Verma, Hon'ble Member CERC and Ex-Member (Planning), CEA joined the meeting. Member (Planning), CEA welcomed Shri Verma and mentioned that 17th EPS was prepared under his leadership. Shri Verma in his remarks emphasized the need to assess the actual shortages of states in a systematic manner as some of the states are resorting to load shedding but the available power is being sold outside the state due to commercial considerations due to which the actual shortage of such states remain unaccounted. He said that even though,

the overall shortages on all India basis remain unchanged but the shortages being indicated by such states are not being reflected properly. He stressed on the need for projecting load growth on realistic basis as some of the states are very enthusiastic to project their load growth but are not able to achieve the targets. He said that there should be continuous interaction of CEA with state authorities for analysis of load growth for which states need to constitute a separate planning body so that CEA may coordinate with one agency instead of multiple entities of the states. He appreciated the enlarged scope of the 18th EPS which covers apart from forecast of states, mega cities and NCT, Delhi. He suggested that Committee may also consider mid-term review of the forecast by taking into consideration the actual load growth achieved by the states vis-à-vis targets and take relook on various aspects to achieve the targets.

After the remarks of Hon'ble Member, CERC, Chairperson, CEA requested the participants of states to express their views and give their suggestions (if any) for modifications/review of the draft forecast:-

Planning Commission:

Adviser, Planning Commission mentioned that demand is suppressed as state utilities are facing liquidity problem. He suggested that the programme for reduction of T&D losses by 14% by 2016-17 or 2021-22 needs to be based on the financial health of state utilities.

The Energy & Resource Institute (TERI):

Distinguished Fellow, TERI appreciated the projections of 18th EPS and mentioned that the demand being indicated is discounted and how the shortages are being accounted for needs to be very clear. He said that the progress of implementation of RGGVY and energy efficiency improvement measures would affect the demand projections which needs to be incorporated appropriately. He suggested that mid-term review of the demand projections would be helpful to ascertain the actual development in the field of power sector by various states.

At this juncture, Member (Planning) intervened and clarified that BEE have indicated the state wise programme of energy efficiency implementation which has been duly incorporated in the demand forecast.

Bihar:

The representative of Bihar put forth the following points in support of the high growth rate for demand projections:

- The state has programme to achieve per capita consumption of 770 Kwh by end of 12th plan
- 17000 villages are yet to be electrified
- Various steps taken for capacity addition programme of 6600 MW up 2015-16 and 14000 MW by 2016-17.
- Asian Development Bank (ADB) assistance for power sector infrastructure development of the state is in process. Based on the above initiatives, Bihar urged high growth rate for 18th EPS projections.

In reply to the points highlighted by Bihar, Chairperson, CEA said that the programme indicated by Bihar is very ambitious and all capacity addition programme as envisaged will not come as it takes time to stabilize. Member (Planning) clarified that most the projects indicated by Bihar does not have fuel linkage which is merely a theoretical programme. The fuel linkage is given by Ministry of Power and environment clearance is also required to be taken in advance to take up implementation of the projects. Chairman requested the state representatives to discuss the issues raised by them separately with DMLF Division and necessary changes for modifications would be considered for incorporating in the projections.

TRIPURA:

The representative of Tripura stated that considering the capacity addition programme of state and industrial policy, the peak load and energy requirements may be modified as per industrial policy of the state. He said that the projection of energy consumption is in order but suggested change in the load factor.

ORISSA:

The representative of Orissa suggested that the reduction of T&D losses to 15% by 2021-22 is very difficult to achieve and suggested that the losses should be kept around 20%. He suggested that the load factor may be increased to around 71% by 2021-22. The representative expressed satisfaction with the projections for energy requirements of the State.

TAMIL NADU:

The representative of Tamil Nadu suggested that the reduction of T&D losses to 15% by 2016-17 may not be possible to achieve and suggested that the reduction to 15% may be extended to 2021-22. CEA clarified that the T&D losses reduction programme for the state would be kept as per the target given by TNERC.

DAMODAR VALLEY CORPORATION (DVC):

The representative of DVC stated that there are no specific comments on the projections in the draft report.

JAMMU & KASHMIR (J&K):

The representative of J&K mentioned that the category wise consumption data submitted to CEA is inclusive of T&D losses, therefore, the consumption data submitted to CEA is on higher side. He said that the peak load indicated in the draft report is restricted and the un-restricted peak requirements may be indicated in the report. He added that power cut of around 10 to 12 hours is imposed in state and the impact of energy not being made available may also be incorporated in the draft report.

CEA mentioned that the reliable and realistic data/detail is yet to be received from the state and a separate meeting may be done with DMLF Division to consider incorporating the suggestion of J&K.

WEST BENGAL:

The representative of West Bengal stated that the category wise consumption details are matching. He said that peak load of around 7000 MW including for DVC area was achieved. He clarified that T&D losses for 2009-10 for West Bengal were around 23% and as such the T&D loss reduction programme may be reviewed accordingly.

MAHARASHTRA:

The representative of Maharashtra indicated that the projections in the draft forecast are acceptable.

HIMACHAL PRADESH:

The representative of Himachal Pradesh indicated that the projections in the draft forecast are acceptable.

PUNJAB

The representative of Punjab indicated that the projections in the draft forecast are acceptable.

GOA

The representative of Goa indicated that the projections in the draft forecast are acceptable.

UTTARANCHAL

The representative of Uttaranchal indicated that the projections in the draft forecast are acceptable.

MIZORAM

The representative of Mizoram indicated that the projections in the draft forecast are acceptable.

MEGHALAYA

The representative of Meghalaya indicated that the projections in the draft forecast are acceptable.

ASSAM:

The representative of Assam suggested review of the energy consumption and peak demand considering the restricted demand. She said that the break up of rural and urban consumption is not possible as no separate feeders have been provided for rural & urban areas. She agreed with the programme of reduction of T&D losses to 15%.

KARNATAKA:

The representative of Karnataka mentioned that the projections are in order. He said that provision of 5% spinning reserve may be kept for

demand forecasting. Member (Planning), CEA clarified that the provision of spinning reserve is part of generation planning and cannot be incorporated for demand forecasting.

HARYANA

The representative of Haryana stated that the projection of reduction of T&D losses should be realistic which may also take into account the states specific issues like law & order problem and other factors. He said that stringent measure needs to be adopted to achieve the T&D losses programme.

UTTAR PRADESH:

The representative of UP mentioned that T&D loss reduction programme is on higher side and should be realistic. He said that projected load factor should also be reduced. He further mentioned that the projections should take into account capacity addition programme of UP. He said that consumption in the industrial category is on lower side and needs to be revised.

CHHATTISGARH:

The representative of Chhattisgarh informed that T&D loss reduction is not incorporated properly. CE (DMLF) clarified that the actual data for the previous 5 years for the state needs to be re-examined as wide variations in the consumption pattern are observed. He mentioned that Chhattisgarh may have separate meeting to clarify the points to modify/review the projections.

KERALA:

The representative of Kerala mentioned that GDP is around 8% and informed that rural and urban data cannot be segregated as common feeders are not provided various categories of consumption. She said that there is no major variations in our projections and submitted a note on projections made by Kerala.

MADHYA PRADESH:

The representative of MP informed that they agreed with the projections of CEA in terms of T&D losses and load factor. He said

that the actual data for the year 2010-11 which have been furnished to CEA be considered for projections.

DELHI:

The representative of Delhi mentioned that peak load should be revised as 4995 MW as this peak demand has already been registered in the year 2011-12 which may be modified in the draft report. He suggested that growth rate for consumption in the domestic category may be increased and report modified.

ANDHRA PRADESH:

The representative of Andhra Pradesh informed that the projections for the state are in order. He pointed out that in the draft report, the trend of energy consumption in the irrigation category and peak load needs to be corrected. CE(DMLF) mentioned that the consumption in irrigation category due to lift irrigation for the state would increase and necessary changes/corrections in the consumption pattern for irrigation and other details would be incorporated.

RAJASTHAN:

The representative of Rajasthan said that projection made by CEA for 2010-11 are on lower side even in unrestricted scenario. He mentioned that even in the off season requirement is over 140 MU / day which may lead to annual requirement of 55000 MU during 2011-12 as against 51387 indicated as per projections. He added that bringing down losses to 14% by 2021-22 would require huge investment which shall not be possible looking to the financial condition of sector. He requested to revise the load factor from 65% to 62%. He said that higher load growth in railway traction may be taken considering the planned dedicated freight corridor project.

Chairman, 18th EPSC then indicated that the EPS by econometric model is being taken up for specifications on methodology and other details are being worked out. He said that this study exercise would be completed within 6 months after award of the work. He said that the states which have yet to submit the information/clarifications on the queries of CEA and other relevant details also furnish the same to DMLF Division by Email within 10 days. He further added that the work of EPS for mega cities would

also be taken up for which the concerned state authorities are required to provide the data expeditiously. This exercise would also require detailed interaction and inputs from concerned planning/urban development organizations of the identified cities.

After deliberations on various points of agenda, following decisions were taken:-

- The concerned states to furnish the requisite input data/information and comments (if any) on draft report by email within 10 days to CEA and the report be brought out by September, 2011.
- CEA to prepare specification for taking up EPS by econometric model for validation of the results of EPS by PEUM techniques.
- The EPS of mega cities to be taken up by CEA for which concerned states are to furnish the requisite input data by coordination with other state organizations.

Member (Planning), CEA in the concluding remarks thanked the Committee Members for their active participation and for valuable suggestions/comments for the 18th EPS. He thanked Shri Verma , Hon'ble Member, CERC for sparing his valuable time and sharing his expert views on EPS. He specially thanked Chairperson, CEA and Chairman of 18th EPSC for his valuable guidance and support in carrying out the studies in a record time. He said that Shri Gurdial Singh, Chairmen, 18th EPSC would be superannuating this month and it would be his last meeting as Chairman, 18th EPSC and placed on record his valuable contribution in completion of EPS.

The meeting ended with vote of thanks to chair.

LIST OF PARTICIPANTS

3rd Meeting of 18th Electric Power Survey Committee (EPSC) held on 27.06.2011 at NRPC, Shaheed Jit singh Marg, Katwari sarai, New Delhi.

CENTRAL ELECTRICITY AUTHORITY

1. Shri Gurdial Singh
Chairperson & Chairman, 18th EPSC
2. Shri A.S. Bakshi,
Member (Planning)
3. Shri K.K. Agarwal
Member (GO&D)
4. Dr J.P. Singh
Member (E&C)
5. Shri Major Singh
Chief Engineer (DMLF) & Member Secretary, 18th EPSC

CERC

6. Shri V.S. Verma, Special Invitee
Hon'ble Member

PLANNING COMMISSION:

7. Shri Somit Dasgupta
Adviser (Power)

DELHI TRANSCO, PLANNING

8. Shri V.K. Gupta
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Assistant Engineer

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14. Shri Kuldeep Singh
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25. Shri J. Kanani,
Addl. General Manager

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28. Shri Anil Kumar Kanhana
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29. Shri Sharda Singh
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57. Shri K. Ramanathan
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58. Shri B. Chakraborti
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59. Shri Subrata Ghosal
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64. Shri Hardayal Singh
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65. Shri K. Seshadri
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67. Shri K.K. Puri
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71. Shri J.K. Rathod
Deputy Director, RPSO (WEST)
72. Shri P.K. Dev
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