

ಕರ್ನಾಟಕ ಸರ್ಕಾರ

ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ಸಚಿವಾಲಯ

2 ನೇ ಮಹಡಿ, ವಿಕಾಸ ಸೌಧ,

ಬೆಂಗಳೂರು, ದಿನಾಂಕ: 04-03-2020

ಅನಧಿಕೃತ ಟಿಪ್ಪಣಿ

ವಿಷಯ: ಕರ್ನಾಟಕ ಮೌಲ್ಯಮಾಪನ ಪ್ರಾಧಿಕಾರದಿಂದ ಇಂಧನ ಇಲಾಖೆಗೆ ಸಂಬಂಧಿಸಿದ ಯೋಜನೆಗಳ ಕುರಿತು ನಡೆಸಿರುವ ಅಧ್ಯಯನದಲ್ಲಿ ನೀಡಿರುವ ಶಿಫಾರಸ್ಸುಗಳಿಗೆ ಕೈಗೊಂಡಿರುವ ಕ್ರಮಗಳ ವರದಿಯನ್ನು ಸಲ್ಲಿಸುವ ಬಗ್ಗೆ.

ಉಲ್ಲೇಖ: ಸರ್ಕಾರದ ಮುಖ್ಯ ಕಾರ್ಯದರ್ಶಿಯವರ ಅ.ಸ ಪತ್ರ ಸಂಖ್ಯೆ: ಕೆಇಎ/51/ಎಟಿಆರ್/ಇಂಧನ/2019, ದಿನಾಂಕ: 25-02-2020.

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ಮೇಲ್ಕಂಡ ವಿಷಯಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ ಹಾಗೂ ಉಲ್ಲೇಖಿತ ಪತ್ರದನ್ವಯ, ಕರ್ನಾಟಕ ಮೌಲ್ಯಮಾಪನ ಪ್ರಾಧಿಕಾರದಿಂದ ಇಂಧನ ಇಲಾಖೆಗೆ ಸಂಬಂಧಿಸಿದ ಈ ಕೆಳಕಂಡ ಯೋಜನೆಗಳ ಕುರಿತು ನಡೆಸಿರುವ ಅಧ್ಯಯನದಲ್ಲಿ ನೀಡಿರುವ ಶಿಫಾರಸ್ಸುಗಳಿಗೆ ಕೈಗೊಂಡಿರುವ ಕ್ರಮಗಳ ವರದಿಯನ್ನು ಸಲ್ಲಿಸುವಂತೆ ಸರ್ಕಾರದ ಮುಖ್ಯ ಕಾರ್ಯದರ್ಶಿಯವರು ಸೂಚಿಸಿರುತ್ತಾರೆ.

1. Karnataka's Energy Mix: Computational Model for Energy Planning
2. Energy Efficient Irrigation Pumps
3. Dedicated Feeders for IPs using Solar based Generation

ಸದರಿ ವಿಷಯಗಳಿಗೆ ಸಂಬಂಧಿಸಿದಂತೆ ಇಂಧನ ಇಲಾಖೆಯು ಕೈಗೊಂಡಿರುವ ಕ್ರಮಗಳ ಕುರಿತು ಅನುಸರಣಾ ವರದಿಯನ್ನು ಇದರೊಂದಿಗೆ ಲಗತ್ತಿಸಿ, ಮುಂದಿನ ಕ್ರಮಕ್ಕಾಗಿ ಕಳುಹಿಸಲಾಗಿದೆ.

(ಅಪರ ಮುಖ್ಯ ಕಾರ್ಯದರ್ಶಿಯವರಿಂದ ಅನುಮೋದಿತ)

ಇವರಿಗೆ:

ಮುಖ್ಯ ಮೌಲ್ಯಮಾಪನಾಧಿಕಾರಿಗಳು,  
ಕರ್ನಾಟಕ ಮೌಲ್ಯಮಾಪನ ಪ್ರಾಧಿಕಾರ,  
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ಕರ್ನಾಟಕ ಮೌಲ್ಯಮಾಪನ ಪ್ರಾಧಿಕಾರ  
ಸ್ವೀಕೃತ ಸಂಖ್ಯೆ 490/1  
ದಿನಾಂಕ 6/03/2020  
ಗಣಕ ಸಂಖ್ಯೆ  
ದಿನಾಂಕ

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ಸರ್ಕಾರದ ಅಧೀನ ಕಾರ್ಯದರ್ಶಿ

ಇಂಧನ ಇಲಾಖೆ  
04/03/2020

CT 613

**Action taken report on the recommendations furnished  
by CSTEP**

**1. Karnataka's Energy Mix : Computational Model for  
Energy Planning:**

<b>Sl. No</b>	<b>Observation</b>	<b>Compliance</b>
<b>220 kV Transmission network issues:</b>		
1	New 220 kV D/C 1000 sq.mm XLPE cable from PGCIL Bidadi 400/220 kV substation to Vrushabavathi 220/66 kV substation is suggested to resolve the line overloading issue associated with Vrushabavathi and Somanahally 220 kV substations.	<p>The proposal was approved in 60<sup>th</sup> TCCM held on 18.08.2014.</p> <p>The proposed 220 kV 1000 sq.mm Bidadi-Vrushabavathi UG cable is planned with LILO arrangement to proposed 220 kV Kumbalgodu sub-station.</p> <p><u>Status of Work:</u> Laying of 220 kV cable from Bidadi to Vrushabavathi is under progress.</p>
2	Additional S/C line from Peenya to NRS 220 kV substation is suggested to resolve the overloading of existing 220 kV S/C line.	<p>The proposal was approved in 72<sup>nd</sup> TCCM held on 17.02.2017.</p> <p>The 220 kV additional circuit from Peenya to NRS is included in 220 kV transmission scheme of 400/220 kV Peenya.</p> <p><u>Status of Work:</u> Revised estimate under preparation.</p>
3	Addition of 3rd 100 MVA, 220/66 kV transformer at Naganathpura substation is suggested to resolve the overloading of other	Replacement of 2x100 MVA, 220/66 kV transformer by 2x150 MVA transformer was approved in 69 <sup>th</sup> TCM held on 17.08.2016.

Sl. No	Observation	Compliance
	transformers in the substation.	<u>Status of Work:</u> 1x100 MVA transformer has been replaced by 1x150 MVA, 220/66 kV capacity. Second 150 MVA transformer awaited for replacement.
<b>110 kV Transmission network issues:</b>		
4	New 110 kV S/C corridor from Tikota to Bijapur E substation via Tekkalaki, Torvi and Bhutnal 110 kV substation.	The proposal was approved in 62 <sup>nd</sup> TCCM held on 29.11.2014.  <u>Status of Work:</u> Tendered on 06.12.2019.
5	New 110 kV S/C line from Yelburga to Kustagi 110 kV substation	New 220 kV sub-station at Yelburga was approved in 78 <sup>th</sup> TCCM held on 22.09.2018.  <u>Status of Work:</u> Land acquisition is under progress.
6	New 110 kV S/C corridor from Dongargaon to Halbarga substation via Santhpur 110 kV substation.	New 220 kV sub-station at Santhpur was approved in 79 <sup>th</sup> TCCM held on 12.04.2018.  <u>Status of Work:</u> Land acquisition is under progress.
<b>Transmission network issues during peak wind season:</b>		
7	Up-gradation of 110 kV Dambal substation to 220 kV by adding 2x100 MVA transformers and one 220 kV D/C line connecting to Dhoni 400 kV substation.	The proposal is envisaged and will be placed in ensuing TCCM.

<b>Sl. No</b>	<b>Observation</b>	<b>Compliance</b>
8	A new 110 kV S/C line from Dambal to Mundaragi 110 kV substations.	
9	New 110 kV S/C line from VSPL to Mundaragi 110 kV substations.	The proposal is in the scope of IPP.

## **2. Energy Efficient Irrigation Pumps:**

- a) CSTEP has recommended replacement of inefficient pumpsets with BEE star rated pumps in the State in order to reduce the energy consumption per pump and thereby reducing the overall subsidy.
- b) The Pilot implementation of Energy Efficient pumps has already been conducted in the following areas of BESCO, HESCO & CESC. It is observed that there will be savings of 30%-35% of energy by installing Energy Efficient pumps in place of conventional pumps.
  - 277 nos. of IP sets replaced in Doddaballapura, BESCO.
  - 590 nos. of IP sets replaced in Byadagi and Nippani, HESCO.
  - 1337 nos. of IP sets are being replaced in Malavalli taluk in Mandya district in CESC jurisdiction.
- c) After implementation of the pilot project, proposal was submitted to the Finance department to accord approval for replacement of about 2.25 lakh conventional irrigation pumpsets with energy efficient pumps in Vijayapura and Chitradurga districts with the assistance of M/s. Energy

Efficiency Services Limited (EESL). Finance Department, Govt. of Karnataka has not concurred to the proposal and opined that the project should be avoided.

- d) The issue of replacing Conventional pumps with Energy Efficient pump revolves around the mode of funding the project. DISCOMs are not in a position to invest money for the project and an ESCO model adds additional financial burden to DISCOMs as the financial health of DISCOMs is not favourable.
- e) However, Government order has been issued directing all DISCOMs to mandate installation of energy efficient 4 or 5 star rated pumps (including borewells under gangakalyana scheme) for irrigation and Drinking Water purpose.

### **3. Dedicated Feeders for IPs using Solar based Generation:**

- a) BESCOM has proposed **Mukyamantri Mini Solar Power plant based Krishi Pumpsets Yojane (MMSKY) for Budget Speech 2020-21:**

It is proposed to arrange 7 hours assured power supply to all IP Sets during the day time through dedicated agricultural feeders by overcoming Transmission Constraints and increase farmers income under Mukyamantri Mini Solar Power plant based Krishi Pump sets Yojane (MMSKY) by adding 6000MW in 24000 acres of barren/dry land of farmers on lease by utilizing existing GoK IP Subsidy for 25 years, GoI subsidy under KUSUM 'A' Component (decentralized solar power plants – 500 kW to 2 MW) and by Private Developers through reverse bidding (more than 2MW up to 10 MW) by avoiding annual increase in GoK subsidy. Approximate cost of the project is around Rs. 21,000 Crores”