

Times of India - 1/9/2015

# Bengaluru will face 2-hr power cuts every day

TIMES NEWS NETWORK

**Bengaluru:** It's official. As Karnataka reels under drought, the cabinet on Monday decided to impose scheduled power cuts — from two to eight hours on a rotational basis across the state, possibly from next week.

While the power cuts are likely to be restricted to two hours daily in Bengaluru, it will be four hours in the district headquarters and as much as six to eight hours in the towns and rural areas. Added to this will be unscheduled power cuts.

"Load-shedding has now become inevitable in the state since water levels in the reservoirs of all hydel projects have dropped to the bottom," law and parliamentary affairs minister TB Jayachandra told reporters after the cabinet meeting.

Reeling out statistics, the minister said the peak demand in Karnataka currently is 10,188 MW but production from various sources ranged between 6,600 MW and 7,300 MW, causing a shortfall of over 3,000 MW.

The state had requested the Centre to allocate 1,500 MW of power additionally to the state to tide over the shortage, and efforts were on to purchase power from neighbouring states. "In the event of non-availability of power from the central grid and neighbouring states, load-



shedding will become inevitable. "The government is already spending over Rs 240 crore per month to tide over the shortage of nearly 3,000 MW of power, and we are again planning to buy more from private producers," Jayachandra added.

Earlier in the day, energy minister DK Shiva Kumar said power situation in the state has reached a precarious situation due to drought and they are doing their best to tide over the crisis. "Money is not at all an issue and we will buy more power from private producers to keep the widening gap between demand and supply under check," he added.

Bangalore Mirror 1/9/2015

# Daily 2-hour load shedding stares city in the face

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Lean monsoon in the catchment areas of Karnataka is set to lay Bengalureans low. The state that depends on hydroelectric power for most of its electricity requirement has not been able to produce enough, and the resulting power crisis came up for discussion in the cabinet meeting on Monday. Briefing the media later law minister TB Jayachandra said that Bengaluru will now be subjected to daily load shedding of two hours. He said that BESCO would make an official statement to this effect.

Speaking to Bangalore Mirror energy minister DK Shivakumar reiterated that the state was facing a power crisis with a shortage of 2,000 MW power at present. "We are not in a position to generate enough power from dams as they have not filled up owing to poor rainfall. The expectation of Udupi Power Corporations Limited to supply 1,200 MW of power also failed because of technical snags. UPCL is presently generating only 500 MW," he said.

Get ready for 2-hr 'meltdown' in city



The minister said the situation had gone out of control and appealed to people to co-operate. He said the state government was in the process of procuring 700 MW power from various sources including sugar factories.

"I have informed the cabinet about the existing crisis. As the state has not received sufficient rainfall we are not in a position to generate enough power. I do not how we can manage the situation after October. Priority is being given to drinking water supply. We have appealed to farmers to look for alternate farming that does not consume much power. Load shedding has to be made across the state, and we cannot show a concession to Bengaluru. Presently, we are going to cut power in the city for two hours daily. We are not doing this deliberately. The situation is beyond our control," the minister said.

# Govt Announces Load Shedding, Says No Option

ESCOMS get go-ahead for power cuts; two hrs for Bengaluru; schedule will be finalised soon

## Express News Service

**Bengaluru:** It's now official. There will be two to eight hours of power cuts in the state.

The state Cabinet, which met here on Monday, gave a green signal to all five electricity supply companies (ESCOMS) to effect power cuts in their respective operational areas owing to power shortage in the state.

The schedule of power cuts is likely to be announced in a day or two by ESCOMS. According to sources, there will be two-hour power cuts in Bengaluru, four hours in tier 2 cities and eight in rural areas.

There are already unofficial two-five hours of power cuts a day in tier 2 cities and 12-15 hours in rural areas.

Informing reporters about the Cabinet decisions, Law and Parliamentary Affairs Minister T B Jayachandra said ESCOMS would chalk out the load shedding schedule depending on the availability of power and use in their respective areas.

The state has been facing a shortage of over 3,000 MW of power a day as against its installed capacity of 10,179 MW a day. This is mainly because the power generation from the state's hydel reservoirs has come down by half due to lack of water storage.

"The situation is very serious as the state has received the lowest rainfall in last 44 years. Barring one or two districts, there is a rainfall deficit across the state. Hence, there is no

**DARK HOURS**

2 hours in Bengaluru  
4 hours in tier 2 cities  
8 in rural areas

**UNOFFICIAL CUTS IN FORCE**

2-5 hrs in tier 2 cities  
12-15 hrs in rural areas

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**STATE'S INSTALLED CAPACITY**

10,179 MW a day  
3,000 MW Shortage

**POWER PURCHASE COST**

₹3,078 crore till the next monsoon



shedding," he added.

To a question, he said the state government has decided to purchase power from the open market till May 2016. "We will be spending ₹3,078 crore on power purchase till the next monsoon," he added.

He said the number of drought-hit taluks has gone up to 135 and Chief Minister Siddaramaiah will hold a review meeting with the administration of all districts soon. After that, relief measures would be announced.

"We have also sought ₹3,050 crore assistance from the Centre for relief works," he said.

Obviously, we do not welcome it. However, it looks like it is inevitable. The problem is that nobody learns from the past mistakes. Authorities must ensure that they notify the time schedules so that we can plan the production. Production must not be affected

— M C DINESH, Vice-president, FICCI

# Need for integrated energy planning

By Saptak Ghosh, Gaurav Kapoor and S S Krishnan

mand for electricity requires the following questions to be addressed:

The Ministry of New and Renewable Energy (MNRE) recently revised India's renewable energy (RE) capacity target to 175 GW for 2021-22. Of this, 100 GW is planned from solar, 60 GW from wind, 10 GW from biomass and 5 GW from small hydro power projects.

While these announcements have caught global attention, it would be wise to pause and understand the implications of such an ambitious target. The current total installed capacity of power generation in India is around 273 GW while the share of RE capacity is 13.5 per cent (4.1 GW from solar and 23.8 GW from wind).

However, in terms of actual generation, RE contributes only 6 per cent (around 60 TWh out of 1,000 TWh). Taking into account that energy models from various studies predict a cumulative electricity generation of around 1800 TWh by 2021-22, RE is expected to have a share of 19.5 per cent.

The biggest challenge with RE is its inherent intermittency. Tamil Nadu—the frontrunner in wind energy with nearly 8 GW of installed capacity—faces severe problems because of this. Seasonal variations, hourly fluctuations, inadequate transmission infrastructure and lack of robust policy frameworks such as time of use, forecasting accuracy issues cripple evacuation in the state. Both developers and distribution utilities suffer losses in terms of revenue earned and unutilised power.

Several wind and solar power projects have faced delays in commissioning owing to complicated clearance procedures and local displacement issues. Availability of resources is another issue—the market price of biomass shoots up when word spreads that it is being used for power generation, and India's burgeoning water scarcity narrative needs no elaboration.

There is a vital need to consider load flow analysis, resource constraints, balancing mechanisms and inclusive policy measures while planning RE penetration for meeting future electricity needs. An Integrated Resource Planning (IRP) framework must be developed which researchers and policy makers can rely on while constructing sustainable and realistic energy roadmaps for various states.

Different studies show that there are different energy demand scenarios for particular timeframes for each state. Planning new capacity installations for meeting the growing de-

a) What should be the source (coal, hydro, renewable, etc) of additional capacity for supply? Given a choice between different sources, what is the optimal choice in terms of important parameters such as cost, availability etc?; b) Where (geographically) will the new capacity be added considering location of power generation vis-a-vis the consumption region to minimise transmission loss?; c) What will be the cost of improving evacuation infrastructure to incorporate new RE capacity?; d) Do these choices adhere to existing policy regulations in the states (the Renewable Purchase Obligations and Electricity Regulatory Commission norms)?

## Suitable land parcels

The IRP framework will use Geographical Information Systems (GIS) to identify suitable land parcels for RE projects. These parcels will be ranked based on a multi-criteria analysis.

Yearly capacity addition plans will be devised using these rankings so that policy makers, transmission companies and distribution utilities can strategise ahead of time. Based on such RE roadmaps, the resultant gap between supply and demand will have to be bridged using conventional energy sources such as coal and hydro. Forecasting at granular levels (daily/hourly) for both solar and wind energy will lead to accurate load balancing strategies using energy storage, demand-side management and policy measures such as time of use.

Based on these requirements, availability of credible data sources is paramount for the framework to be as exhaustive as possible. Specific modules will be integrated and associated policy measures will be recommended along with implementable action plans for government stakeholders to meet particular demand scenarios.

The framework can be customised after stakeholder consultations to define specific problems in different states. This framework will also include other extendable software modules such as Risk Assessment, Financial Modelling and Life Cycle Analysis (LCA).

Policy makers across states will be able to use this framework to explore various options to meet their future electricity demand using an appropriate mix of conventional and renewable energy with robust evacuation and transmission infrastructures.

(The writers are researchers with the CSTEP, Bengaluru)

**BENGALURU, DHNS:** Faced with a severe shortage of power, the State Cabinet on Monday gave its nod for the Energy Department to effect a two-hour load shedding in the State capital.

The situation in other cities and towns is likely to be much worse in coming days. The Cabinet has authorised the Department to take up scheduled load shedding in those places based on the availability of power.

The Electricity Supply Companies (ESCOs), including Bescom, will soon draw up the schedule for load shedding, Law Minister T B Jayachandra told reporters after the Cabinet meeting. The minister said the State is currently facing about

**Dark days ahead**

■ State facing 3,000 MW of power shortage as against the total requirement of 8,000 MW  
 ■ Power supply companies to draw up load shedding schedule



■ Situation to be worse in other areas  
 ■ Shortage attributed to poor monsoon and outages in Udipi and Ballari stations in recent days

3,000 mega watt (MW) of power shortage as against the total requirement of 8,000 MW.

The severe shortage is mainly due to failure of south-west monsoon rainfall and outages in Udipi Power Corporation Ltd and Ballari Thermal Power Station in recent days. Power generation at major hydel power

generating stations of Linganamakki, Mani and Supa has come down drastically due to decline in water level. The State government has already declared 135 taluks as drought-hit.

The Cabinet has also approved a proposal by the Energy Department to purchase about 750 MW of power from

open market at Rs 5.08 per unit in order to cope with the situation. The government has authorised the ESCOMs to enter into power purchase agreements with private power producers till May 2016. The total estimated cost of power purchase is a whopping Rs 3,078 crore, Jayachandra said.

Sources in the Energy Department said that the government has not been able to get additional power from the Central grid in the absence of proper transmission corridor and transmission lines within the State. Union Minister of State for Power Piyush Goyal, during his recent visit to Bengaluru, had said that the Centre is ready to give more power to the State

10/9/2015 TAKES ECT

**City to Face Two-hour Power Cut**

ANIMISHA

The state cabinet on Monday decided to impose scheduled power cuts from two to eight hours across the state from next week. Bengaluru will most likely face two hours of scheduled power cuts. But adding to the misery, there could be unscheduled power cuts as well. The decision comes in the wake of deficient rainfall and low levels in all the reservoirs in the state.

Deccan Herald 1/9/15

**POWER CUTS ARE BACK! IT WILL BE FOR 2 HOURS IN BENGALURU CITY**

**IN THE WAKE OF WIDESPREAD DROUGHT IN KARNATAKA**, the state Cabinet on Monday approved a proposal for load shedding even in urban areas, including Bengaluru city.

At present, the Cabinet has given consent for two hours load shedding in Bengaluru, while it would be eight hours in rural areas.

Speaking to reporters, Law Minister Mr T B Jayachandra said that though the state had 10189 MW installed power production capacity, the production has been around 6600 mw to 7300 mw. The state was facing over 3000 mw generation deficit. To make up the deficit, the government would be spending Rs 247 crore every month and the financial implication of this till May 2016 would be Rs 3070 crore.

Under such circumstances, the Cabinet has consented to the purchase of power from private parties at a cost of Rs 5.08 per unit. Besides, load shedding was inevitable. In a day or two, the Energy Department would come out with details of load schedule, he said.

Meanwhile, the state is witnessing the worst drought in the last 44 years, indicating a severe drinking water shortage. The government had already notified 135 taluks as drought hit. Barring three or four districts, all other districts have received deficit rainfall.

Worse is the receding level of water in almost all reservoirs. Compared to last year, there is deficit of over 56% in water storage. In some reservoirs, the deficit is 88 per cent. The CM will convene a meeting to tackle the drinking water problem

The Home

**Two-hour power cut in Bengaluru**

**BENGALURU:** It's official. Bengalureans will have to go without power for at least two hours a day. A decision to impose power cut was taken at a Cabinet meeting here on Monday. There will be similar shutdown in other parts of the State as well. Details of the shutdown will be announced soon.

■ DETAILS | PAGE 7

# Live wire falls on car, MNC executive has a close shave

ANANTHA SUBRAMANYAM K

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**A**n MNC executive had a close shave when a transformer exploded and a 'live wire' fell on the car he was driving in Langford Town on Monday morning. The mishap, occurred on Berlie Street at around 8:45 am, led to a traffic pile-up on the stretch, besides creating a few moments of panic. The freak incident happened when 30-year-old Vijay Kumar, a resident of Hosur, was driving to his UB City office.

"All of a sudden, there were a spark from the electric pole that was on the pavement and it was followed by a huge noise. Within seconds, a wire fell on my car, grazed past the door and fell near near the rear wheel. I got really scared. Quickly, I opened the door and jumped out of the car. I saw the wire snapped into two - while one was near my car, the other was lying near the gate of nearby house."

## TRAFFIC CAME TO A HALT

"Just imagine someone getting electrocuted inside his vehicle for no fault of his,



Bescom officials did not rush to spot even after being alerted



isn't it very scary? That is precisely what I went through," said Kumar. In fact, everyone heaved a sigh of relief when a passer-by safely moved the wire from the car towards the pavement.

Kumar said: "I called up Bescom number to alert them about the wire, but there was no quick response." Kumar alleged that Bescom officials did not rush to the spot even after the traffic cops called them.

When contacted, Bescom's assistant executive engineer (Shanthinagar ward) Ramaiah said, "We are yet to know the reason behind the electric wire snapping into two. We are checking."

# With water in hydel reservoirs down, State stares at power crisis

## Rs. 3,078 cr. earmarked for power purchase till May 2016

Nagesh Prabhu

**BENGALURU:** Karnataka is starting at a power crisis as hydel reservoirs are half-empty following deficient rainfall across the State. To tackle this, the State government has decided to resort to at least two-hour power cuts in Bengaluru and the rest of the State.

The State Cabinet also declared 135 taluks in 27 districts as drought-hit.

The Cabinet, which met here on Monday, earmarked Rs. 3,078 crore for purchase of power from independent power producers till May 2016.

"The government will incur an expenditure of Rs. 247 crore a month for power purchase," Law and Parliamentary Affairs Minister T.B. Jayachandra told presspersons after the meeting on Monday. Electricity will be purchased at a cost of Rs. 5.08 per unit. Against the installed capacity of 10,189 MW, the State is generating between 6,300 MW and 6,600 MW per day.

The Energy Department will soon announce the details of power cuts in the State, he said.

Hydel reservoirs, which contribute heavily to the



“Government will incur an expenditure of Rs. 247 crore a month on power purchase

**T.B. JAYACHANDRA,**  
Minister for Law  
and Parliamentary Affairs

power pool of the State, have only filled up to 50 per cent of their total capacity. For instance, water storage in the major Linganamakki hydel reservoir was 67.62 tmcft on August 29 against the storage capacity of 151.75 tmcft. The storage level during the corresponding period was 141.42 tmcft.

### Drought situation

The estimated crop loss was estimated at Rs. 11,000 crore. A memorandum had been submitted to the Cen-

## MAJOR CABINET DECISIONS

- Chief Minister authorised to appoint new Chief Secretary as term of present Chief Secretary Kaushik Mukherjee ends on September 30
- Approval of guidelines for land acquisition for second phase of Namma Metro project
- Appointment of V.P. Baligar as member of the Karnataka Administrative Tribunal
- Approval to National Project for Bovine Breeding for seeking Rs. 20 crore from Centre
- Govt. guarantee to Karnataka State Marketing Federation for raising loan of Rs. 600 crore to stock fertilizers in 2015-16
- Approval for Karnataka Lake Conservation and Development Authority Bill, 2015
- H-Track project approved for Hubballi-Dharwad city (Rs. 25 cr.)
- Approval to set up unit of Sri Jayadeva Institute of Cardiovascular Sciences & Research in Kalaburagi (Rs. 15 cr.)
- Five guntas at Managalava Pet in Channapatna and 10 guntas in Ramangaram for Congress office buildings
- Sanction of Rs. 18.25 crore for construction of Kodagu Zilla Panchayat building
- Development of five villages in each rural Assembly constituency by utilising Rs. 3.75 crore-fund under Grameen Vikas Yojana
- Providing government guarantee to Karnataka Cauvery Neeravari Nigam to raise Rs. 610 crore

tre seeking compensation of Rs. 3,050 crore. The Chief Minister had led a delegation to the Centre last week to apprise Prime Minister Narendra Modi on the drought situation.

"The drought situation is the worst in 44 years. The Cabinet sub-committee toured several districts and

found "grim" situation, Mr. Jayachandra said. The south-west monsoon was 28 per cent deficit up to now (June 1 to August 31) in the State.



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## ಬೆಂಗಳೂರು ವಿದ್ಯುತ್ ಸರಬರಾಜು ಕಂಪನಿ ನಿಯಮಿತ

(ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ಸಂಪೂರ್ಣ ಸ್ವಾಮ್ಯಕ್ಕೆ ಒಳಪಟ್ಟಿದೆ.)

### ಸಂಕ್ಷಿಪ್ತ ಮರು-ಟೆಂಡರ್ ಪ್ರಕಟಣೆ (ಇ-ಪ್ರೊಕ್ಯೂರ್ಮೆಂಟ್ ಮೂಲಕ)

ಬೆವಿಕಂ ಇವರು ವಿಚಾರಣೆ ಸಂಖ್ಯೆ: ಸಿಇಇ/ಬಿಎಂಎಝಡ್/15-16/ಇಎನ್‌ಕ್ಯೂ ನಂ. 04, 05, 06 ಮತ್ತು 07/2ನೇ ಕರೆ, ಬಿಎಂಎಝಡ್‌ನ ಪೂರ್ವ, ಪಶ್ಚಿಮ, ಉತ್ತರ ಮತ್ತು ದಕ್ಷಿಣ ವೃತ್ತಗಳಿಗೆ ಕ್ರಮವಾಗಿ ಟೆಂಡರ್ ಆಹ್ವಾನಿಸಿದ್ದಾರೆ. ವಿವರ: ವಿವಿಧ ಕಛೇರಿಗಳಿಗೆ ಒಂದು ವರ್ಷದ ಅವಧಿಗೆ ಗುತ್ತಿಗೆ ಆಧಾರದಲ್ಲಿ ಗ್ಯಾಂಗ್‌ಮನ್ ಸೇವೆಗಳನ್ನು ಒದಗಿಸುವುದು. ಬಿಡ್ ದಾಖಲೆಗಳ ಲಭ್ಯತೆ: 01.09.2015 ರಿಂದ 15.09.2015 (14:00 ಗಂಟೆವರೆಗೆ). ಬಿಡ್ ಸಲ್ಲಿಸಲು ಕೊನೆಯ ದಿನಾಂಕ : 15.09.2015 (16:00 ಗಂಟೆವರೆಗೆ). ಬಿಡ್ ತೆರೆಯುವ ದಿನಾಂಕ: 18.09.2015 (11:00 ಗಂಟೆಗೆ). ಎಲ್ಲಾ ರೀತಿಯ ಪಾವತಿ ಅಂದರೆ ಟೆಂಡರ್ ದರ, ಇಎಂಡಿ ಇತ್ಯಾದಿಗಳನ್ನು ಇ-ಪೇಮೆಂಟ್ ಮೂಲಕ ಪಾವತಿಸುವುದು. ಹೆಚ್ಚಿನ ಮಾಹಿತಿಗಾಗಿ ಈ ಕೆಳಕಂಡ ದೂರವಾಣಿ ಸಂಖ್ಯೆಗಳಿಗೆ ಸಂಪರ್ಕಿಸಲು ಕೋರಲಾಗಿದೆ 080-25501216 ಮತ್ತು 080-25501227 ಅಥವಾ ವೆಬ್‌ಸೈಟ್: <https://eproc.karnataka.gov.in>

ವಿದ್ಯುತ್ ಸಂಬಂಧಿತ ದೂರುಗಳಿಗೆ  
ಕರೆಮಾಡಿ : 1912

ಸಹಿ/- ಮುಖ್ಯ ಇಂಜಿನಿಯರ್ (ಎ),  
ವಾ, ಕಾ & ಪಾ, ಬಿಎಂಎಝಡ್, ಬೆವಿಕಂ

// TO I 1-9-15



## BANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

(Wholly owned by Government of Karnataka undertaking)

### BRIEF RE-TENDER NOTIFICATION (Through e-procurement)

BESCOM invites tender for Enq. Nos.: CEE/BMAZ/15-16/ENQ No. 04, 05, 06 & 07/call-2 of East, West, North & South Circles respectively, BMAZ. **Description:** Services of Gangmen on contract basis for a period of one year to the various offices. **Bid Documents available:** 01.09.2015 to 15.09.2015 (14:00 Hrs.), **Receipt of Bid Document:** Upto 15.09.2015 (16:00 Hrs.), **Opening of Bid Document:** 18.09.2015 (11:00 Hrs.). All the payments such as tender cost, EMD, etc. shall be made through e-payment mode. Further, bidders can take assistance with e-procurement help desk at 080-25501216 and 080-25501227 or website <https://eproc.karnataka.gov.in>

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Sd/- Chief Engineer, Ele.,  
C, O & M, BMAZ, BESCOM