

# How LED Lights can Help You Save

Choosing your indoor lights carefully can lower your electricity bill and help the environment

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Although indoor lighting is an essential, most of us do not pay much attention to the costs associated with them, perhaps because it's not a big-ticket expense. However, it is not just the upfront cost of buying a tube light or bulb that you must take into account. Other costs like replacement and power consumption also need to be considered carefully before making a decision.

Since electricity consumption forms the bulk of the running cost of light fixtures, an energy efficient option like LED lights can help you save a good deal of money in the long run.

**Although the upfront cost of LED lights is slightly higher, their energy efficiency and durability**

With an estimated energy efficiency of 80-90% compared to conventional light bulbs, LEDs significantly reduce energy consumption, and thus help save money by lowering electricity bills," says Rakesh Zutshi, MD, Halonix Technologies and president of Electric Lamp and Components Manufacturers Association of India.

Gautam Seth, joint MD, HPL Electric, agrees: "LED lights are more ecofriendly and are up to 80% more efficient than fluorescent and incandescent lights".

**Although the upfront cost of LED lights is slightly higher, their energy**

## WHEN & WHY SHOULD YOU SWITCH?

Average warranty offered	Traditional tube-light 6 months	CFL 1 year	LED 2 years
Advertised lifespan	7,000-15,000 hours	6,000-10,000 hours	15,000-25,000 hours
Average power consumption for similar light output	28 watts	15 watts	9 watts
Number of bulbs needed over 5 years for 6 hours of use per day*	3	3	2
Total purchase price over 5 years	₹120	₹300	₹300
Total cost of electricity for 6 hours of use per day**	₹1,533	₹821	₹493
Total cost over 5 years	₹1,653	₹1,121	₹793
Savings over traditional lights		32%	52%

\*CALCULATED BY AVERAGING LIFESPAN AND WARRANTY \*\*AVERAGE UNIT COST TAKEN TO BE ₹5

efficiency and durability compensate for it. "The return on investment for installing LEDs is so much quicker because of their longevity and light emission per wattage," says Radeesh Shetty, founder, The Purple Turtles, a decorative lighting company.

LEDs may cost you 30-40% more than traditional lighting options, depending on the brand you choose, but they last four to five times longer. This not only saves you the effort of replacing them

often, but also making them environmentally sustainable.

Traditional lights and CFLs need to be replaced more frequently than LED lights, which are designed to function for years. "Since LEDs have close to zero maintenance cost, every section of society stands to benefit from their use, given the extra savings that can be made from the lower power bills, which is the norm for LEDs," says VP. Mahendru, CMD, EON Electric.

D.H 21-12-2016 Page 10  
Bajaj Hindusthan to sell power biz

Bajaj Hindusthan plans to sell its cogeneration power business to its group company Lalitpur Power Generation Company for about Rs 1,800 crore. The company has 14 sugar mills with cane crushing capacity of 1.36 lakh tonnes per day and alcohol distillation capacity of 800 kilo litres per day.

## RENEWABLE SOURCES HOG LIMELIGHT

Economic Times 21/12/2016 Page No 9

# Lower Output to Weigh on Shares of Power Cos

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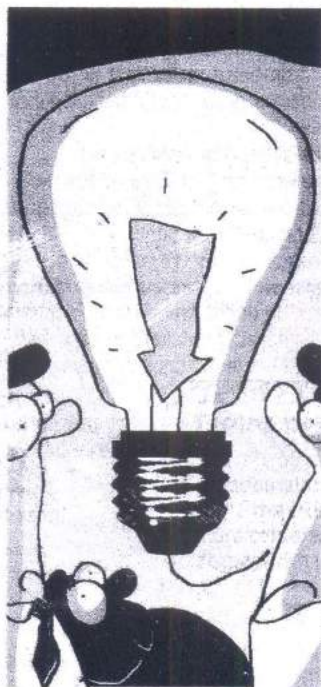
**Mumbai:** Concerns over low utilization of power plants amid muted demand will continue to weigh on shares of power generators, after the Central Electricity Authority held out a dismal outlook for the sector.

In the draft national electricity plan, CEA reckons that no new thermal power capacity needs to be added in 2017-22 given the incremental generation coming from new renewable power projects.

"Demand for power continues to be low and now with renewable power projects offering clean power at a cheaper rate, the demand may fall further," said AK Prabhakar, head of research, IDBI Capital Markets. CEA expects a drastic fall in capacity utilization—as low as 48% by 2022—as the clean power projects come upstream.

"It is going to be difficult for power companies to set up new projects when the demand is lukewarm. Those who are already invested will find it difficult to keep projects viable," Prabhakar said.

The plant load factor, a measure of electricity generated by a unit



ANIRBAN BORA

compared to the maximum it can, in the sector plummeted to lows of 52% in August as industrial de-

mand declined and state power distribution companies opted for power cuts instead of buying more power to keep costs under check. But it subsequently rose to 61% in November.

"Electricity generation in November 2016 grew by 8.3% to 93 billion units. This is in contrast to the low growth over the last four months. However, growth was on a lower base; November 2015 growth was 0.7%. Overall muted growth was on account of low electricity demand in July, August, September, October (partly explained by better monsoons) and slow pick-up in industrial activity (as reflected in IIP decline of 0.3%)," said IDFC Securities.

Analysts said state-run NTPC emerges stronger than private peers as the sector gears up for further fall in output as renewable sector will continue to add more capacity and offer cheaper power. In its power sector report for December, Elara Capital recommends 'buy' shares of NTPC, PTC India, and Reliance Power, 'accumulate' shares of Power Grid Corporation, NHPC, SJVN, CESC; and 'reduce' exposure to JSW Energy.

## The Hindu Page 10 'Give power connections on EMI to APL customer'

**NEW DELHI:** In order to meet the target of providing uninterrupted power to all by 2019, Power Minister Piyush Goyal has asked States to give "on demand" electricity connections to above poverty line (APL) consumers on monthly instalments and has offered funding for that. "We are ready to provide funds for the purpose through Power Finance Corporation and Rural Electrification Corporation for the purpose," the Union Minister told reporters after the unveiling of second generation GARV-II app for tracking rural electrification in real-time basis on Tuesday. — PTI

## Riding power

The eRL 50 boasts an LED speedometer and display while the eRL 90 gets a more comprehensive LCD display with information like power indicator, battery charge status indicator and speedometer. The bike offers the convenience of an electric motor and can also be used as a conventional bicycle.



10 ಉದಯವಾಣಿ ಬೆಂಗಳೂರು 21/12/16

**ಬೆಂಗಳೂರು ವಿದ್ಯುತ್ ಸರಬರಾಜು ಕಂಪನಿ ನಿಯಮಿತ**  
(ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ಸಂಪೂರ್ಣ ಸ್ವಾಮ್ಯಕ್ಕೆ ಒಳಪಟ್ಟಿದೆ)  
(CIN-U04010KA2002SGC030438)

**ಅಲ್ಪಾವಧಿ ಟೆಂಡರ್ (ಇ-ಪ್ರೊಕ್ಯೂರ್ಮೆಂಟ್ ಮೂಲಕ)**

ರಾಮನಗರ ವೃತ್ತದ ಕನಕಮಠ ವಿಭಾಗದಲ್ಲಿ ವಿಶೇಷ ಅಭಿವೃದ್ಧಿ ಯೋಜನೆ (SDP) ಅಡಿಯಲ್ಲಿ ಎಲ್‌ಟಿ ರೀ-ಕಂಡಕ್ಟಿಂಗ್ ಮತ್ತು ಅಪಾಯಕಾರಿ ಸ್ಥಾವರಗಳನ್ನು ಸಂಪದಿಸುವ ಕಾಮಗಾರಿಗಳಿಗೆ ಪೂರ್ಣ ಟರ್ನಿಂಗ್ ಆಧಾರದ ದರ ಗುತ್ತಿಗೆ ಮೇಲೆ ಟೆಂಡರ್‌ಗಳನ್ನು ಆಹ್ವಾನಿಸಲಾಗಿದೆ. 1. LT Re-conductoring vide Enquiry No. SEE/RMGC/RC-LT/KKP-127 Dt: 22.12.2016 2. Hazardous vide SEE/RMGC/RC-HZ/KKP-128 Dt: 22.12.2016. ಟೆಂಡರಿಗಟ್ಟು ಆಂದಾಜು ಮೊತ್ತ: ಪ್ರತಿ ಕಾಮಗಾರಿಗೆ ರೂ. 100.00 ಲಕ್ಷಗಳು.

ಬಿಡ್‌ಗಳನ್ನು ಸಲ್ಲಿಸಲು ಕೊನೆಯ ದಿನಾಂಕ: 05.01.2017ರ ಸಂಜೆ 4.00 ಗಂಟೆಯವರೆಗೆ. ಟೆಂಡರ್ ಮೆಚ್ಚು ಇಂದಿ, ಇತರ ಎಲ್ಲಾ ಪಾವತಿಗಳನ್ನು ಇ-ಪಾವತಿ ಪದ್ಧತಿಯಲ್ಲಿ ಪಾವತಿಸಬೇಕು. ಹೆಚ್ಚಿನ ವಿವರಗಳಿಗೆ <http://eproc.kamataka.gov.in> ಗೆ ಭೇಟಿ ನೀಡಬಹುದು.

ಸಹಿ/- ಅಧೀಕ್ಷಕ ಅಧಿಯಂಶರರು(ಎ),  
ವಿದ್ಯುತ್ ಸಂಬಂಧಿತ ದೂರುಗಳಿಗೆ ಕರೆ ಮಾಡಿ: 1912 ರಾಮನಗರ ವೃತ್ತ

The Hindu P.N 6 21-12-16

**BANGALORE ELECTRICITY SUPPLY COMPANY LIMITED**  
(Wholly owned Government of Karnataka Undertaking)  
(CIN-U04010KA2002SGC030438)

**SHORT TERM TENDERS (Through e-procurement)**

Tenders are invited for providing LT Re-conductoring works Under Special Development Plan (SDP) works and Rectifying the Hazardous installation & Other Emergency works in Kanakapura division of Ramanagara Circle, BESCOM, on "Total Turnkey basis under Rate contract on percentage basis. 1. LT Re-conductoring vide Enquiry No. SEE/RMGC/RC-LT/KKP-127 Dt: 22.12.2016 2. Hazardous vide SEE/RMGC/RC-HZ/KKP-128 Dt: 22.12.2016. For both the works the approx. amount put to tender is Rs. 100.00 Lakhs each.

Last date for submitting the bids is 05.01.2017 upto 16.00 hrs. All the payments such as tender cost, EMD etc., shall be made through e-payment mode. For details, please visit website: <http://eproc.kamataka.gov.in>

Sd/-  
Superintending Engineer (Ele)  
Ramanagara Circle.

For Electricity Related Complaints Call: 1912

Vijaya Karnataka 21/12/16

**ಬೆಂಗಳೂರು ವಿದ್ಯುತ್ ಸರಬರಾಜು ಕಂಪನಿ ನಿಯಮಿತ**  
(ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ಸಂಪೂರ್ಣ ಸ್ವಾಮ್ಯಕ್ಕೆ ಒಳಪಟ್ಟಿದೆ)  
(CIN - U04010KA2002SGC030438)

**ಅಲ್ಪಾವಧಿ ಟೆಂಡರ್ ಪ್ರಕಟಣೆ (ಇ-ಪ್ರೊಕ್ಯೂರ್ಮೆಂಟ್ ಮೂಲಕ)**

ಬೆವಿಕಂ ವಿಚಾರಣೆ ಸಂಖ್ಯೆ ಅಇಂಎ/ರಾವ್/ಆರ್‌ಸಿ-ಎಲ್‌ಒ/ರಾ-118 ದಿನಾಂಕ 5.10.2016 (3ನೇ ಕರೆ) ರ ಅನ್ವಯ ರಾಮನಗರ ವಿಭಾಗದಲ್ಲಿ ಸಂಪೂರ್ಣ ಟರ್ನಿಂಗ್ ಕೀ ಆಧಾರದ ಮೇಲೆ ದರ ಗುತ್ತಿಗೆ ಅಡಿಯಲ್ಲಿ ಸ್ಥಳೀಯ ಯೋಜನೆ ಮತ್ತು ಬೇರೆ ತುರ್ತು ಕಾಮಗಾರಿಗಳಿಗಾಗಿ ಮರು ಟೆಂಡರ್ ಆಹ್ವಾನಿಸಿದೆ. ಟೆಂಡರಿನ ಅಂದಾಜು ಮೊತ್ತ: ರೂ.100/- ಲಕ್ಷಗಳು. ಬಿಡ್ ಸಲ್ಲಿಸಲು ಕೊನೆಯ ದಿನಾಂಕ 03.01.2017 ರ 16.00 ಗಂಟೆಯವರೆಗೆ. ಟೆಂಡರ್‌ನಲ್ಲಿ ಭಾಗವಹಿಸಲು ವಿವರಗಳನ್ನು ಇ-ಪ್ರೊಕ್ಯೂರ್ಮೆಂಟ್ ವೆಬ್‌ಸೈಟ್: <http://eproc.karnataka.gov.in> ನಲ್ಲಿ ಪಡೆಯಬಹುದು. ಹೆಚ್ಚಿನ ವಿವರಗಳಿಗೆ ಇ-ಪ್ರೊಕ್ಯೂರ್ಮೆಂಟ್ ಸಹಾಯವಾಣಿ : 080-25501227 / 25501216 ಮೂಲಕ ಸಂಪರ್ಕಿಸಬಹುದು.

ಸಹಿ/- ಅಧೀಕ್ಷಕ ಇಂಜಿನಿಯರ್ (ಎ),  
ರಾಮನಗರ ವೃತ್ತ, ಬೆವಿಕಂ, ಬೆಂಗಳೂರು.

ವಿದ್ಯುತ್ ಸಂಬಂಧಿತ ದೂರುಗಳಿಗೆ  
ಕರೆಮಾಡಿ : 1912

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**Bangalore Electricity Supply Company Limited**  
(Wholly owned Government of Karnataka Undertaking)  
(CIN - U04010KA2002SGC030438)

**SHORT TERM TENDER (Through e-Procurement)**

BESCOM invites Re Tender for Local Planning & Other Emergency works in Ramanagara division in Ramanagara Circle, BESCOM, Bangalore on "Total Turnkey basis on Rate Contract" against Enq. No. SEE/RMGC/RC-LP/RMG-118 Dt: 5.10.2016(3rd Call). Approx Amount put to Tender in Rs. 100.00 Lakhs. Last date for submitting the bids is 03.01.2017 upto 16.00 Hrs. For details, please visit website: <http://eproc.karnataka.gov.in>. For other details contact e-procurement help desk, 080-25501216/25501227.

For electricity related complaints call 1912

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