

Energy conservation will soon be the norm

By Our Staff Reporter

BANGALORE, DEC. 14. Karnataka Renewable Energy Development Ltd. (KREDL) will enforce the Energy Conservation Act in the State. It will soon set up a department to implement the law, said B. Shivalingaiah, KREDL Managing Director.

He was speaking at the inauguration of "Energy Conservation Week" at the Institution of Engineers here on Tuesday.

Mr. Shivalingaiah said many industries wasted power on lighting, refrigeration and air-conditioning. "By using solar power for lighting, they can save grid power during peak hours. They can even use biomass gasifiers for air-conditioners and refrigerators," he said. Industries should install automatic electrical load management devices that prevented unlimited power consumption. Low-energy bulbs would save power in a big way, he said. Solar water heaters in houses would save about 150 mega watt (MW) of peak power, he said.

New system

Mr. Shivalingaiah said "performance contracting" or "shared energy saving contract" could be introduced where the local power supplier was paid on the basis of demonstrated energy saving. Energy audits in the industrial sector would be "less because" "...by and large, the recommendations of the audit are not implemented."

There would soon be a Central Energy Conservation Au-



B.G. Rudrappa, former chairman of the Karnataka Electricity Board, centre, with B. Shivalingaiah, left, Managing Director, Karnataka Renewable Energy Development Ltd., and D. Kencharase Gowda, Vice-President of The Institution of Engineers (India), at the Energy Conservation Week Inaugural function in Bangalore on Tuesday. — Photo: K. Gopinathan

thority to facilitate and enforce the efficient use of energy.

Efficient motors

B.G. Rudrappa, former chairman of the Karnataka Electricity

Board, spoke about energy conservation with reference to industrial, agricultural and domestic sectors. Irrigation pumpsets could be fitted with energy-efficient motors. It

would make a substantial difference, as about 50 per cent of the power used in the State was not metered. The transmission and distribution losses ranged between 28 per cent and 30 per

cent so. Lines where the transmission and distribution was heavy should be tackled immediately, he said.

Members of the Institution of Engineers spoke.

'ವಿದ್ಯುತ್ ನಷ್ಟ ಇಳಿಸಿದರೆ ಗ್ರಾಮೀಣರಿಗೆ ಲಾಭ'

ಬೆಂಗಳೂರು, ಡಿ.14--ರಾಜ್ಯದಲ್ಲಿ ವಿದ್ಯುತ್ ನಷ್ಟವನ್ನು ಶೇ.28ರಿಂದ 10ಕ್ಕೆ ಇಳಿಸಿದರೆ ಗ್ರಾಮೀಣ ಪ್ರದೇಶಕ್ಕೆ ಹೆಚ್ಚು ವಿದ್ಯುತ್ ನೀಡಬಹುದು ಎಂದು ಕರ್ನಾಟಕ ವಿದ್ಯುತ್ ಮಂಡಳಿ ಮಾಜಿ ಅಧ್ಯಕ್ಷ ಬಿ.ಬಿ. ರುದ್ರಪ್ಪ ಹೇಳಿದ್ದಾರೆ. ವಿದ್ಯುತ್ ಉತ್ಪಾದನೆಗಿಂತ ವಿದ್ಯುತ್ ಪ್ರಸರಣ ಹಾಗೂ ವಿತರಣೆಯಲ್ಲಾಗುತ್ತಿರುವ ನಷ್ಟ ಕಡಿಮೆ ಮಾಡುವುದು ಅತ್ಯಗತ್ಯ. ಪ್ರಸರಣ ಮಾರ್ಗವನ್ನು ಮೇಲ್ವರ್ತಿಗೆ ವಿಸ್ತರಿಸುವುದರಿಂದ ವಿದ್ಯುತ್ ನಷ್ಟ ಕಡಿಮೆ ಮಾಡಬಹುದು ಎಂದು ಕರ್ನಾಟಕ ನವೀಕರಿಸಬಹುದಾದ ಇಂಧನ ಅಭಿವೃದ್ಧಿ ನಿಗಮ ವರ್ತಮಾನದ ಇಂಧನ ಉಳಿತಾಯ ಸಪ್ತಾಹ ಉದ್ಘಾಟಿಸಿ ಹೇಳಿದರು.

ಹಾಸನ-ಚಿಕ್ಕಮಗಳೂರು ವಿದ್ಯುತ್ ಮಾರ್ಗದಲ್ಲಿ ಶೇ.20ರಷ್ಟು ವಿದ್ಯುತ್ ನಷ್ಟ ಇನ್ನು ಈಗ ಅದನ್ನು ಮೇಲ್ವರ್ತಿಗೆ ನೀಡುವ ಮೇಲೆ ವಿದ್ಯುತ್ ನಷ್ಟ ಶೇ.2.5ಕ್ಕೆ ಇಳಿದಿದೆ. ಇದೇ ರೀತಿ ಎಲ್ಲ ಕಡೆ ವಿದ್ಯುತ್ ಮಾರ್ಗ ಬದಲಿಸಿ ನಷ್ಟ ಕಡಿಮೆ ಮಾಡಬಹುದು. ಅದಕ್ಕೆ ಪೂರಕ ಯೋಜನೆ ಸಿದ್ಧಪಡಿಸಬೇಕು. ಎಲ್ಲಿ ಹೆಚ್ಚು ವಿದ್ಯುತ್ ನಷ್ಟ ಇದೆಯೋ ಅಲ್ಲಿ ಮೊದಲು ಕ್ರಮ ಕೈಗೊಳ್ಳಬೇಕು ಎಂದರು.

ಈಗ 9 ಸಾವಿರ ದಶಲಕ್ಷ ಯೂನಿಟ್ ವಿದ್ಯುತ್ ನಷ್ಟವಾಗುತ್ತಿದೆ. ಇದನ್ನು 6000 ದಶಲಕ್ಷ ಯೂನಿಟ್ ಗಳಿಗೆ ಇಳಿಸಬಹುದು. ಇದು ಶರಾವತಿ ಜಲ ವಿದ್ಯುತ್ ಯೋಜನೆಯ ಒಟ್ಟು ವಿದ್ಯುತ್ ಉತ್ಪಾದನೆ. ಸಿಎಫ್‌ಎಲ್ ಟ್ಯೂಬ್ ಹಾಗೂ ಸೌರಶಕ್ತಿ ಬಳಕೆ



ಕರ್ನಾಟಕ ನವೀಕರಿಸಬಹುದಾದ ಇಂಧನ ಅಭಿವೃದ್ಧಿ ನಿಗಮ ವರ್ತಮಾನದ ಇಂಧನ ಉಳಿತಾಯ ಸಪ್ತಾಹವನ್ನು ಬಿ.ಬಿ. ರುದ್ರಪ್ಪ ಉದ್ಘಾಟಿಸಿದರು. ಡಾ. ಬಿ.ಶಿವಲಿಂಗಯ್ಯ, ಕೆಂಚನರಸೇಗೌಡ, ಗೋವಿಂದಪ್ಪ ಭಾಗವಹಿಸಿದ್ದರು.

ಯಿಂದ ವಿದ್ಯುತ್ ಉಳಿತಾಯ ಸಾಧ್ಯ ಎಂದರು. ರಾಜ್ಯದಲ್ಲಿ 15 ಲಕ್ಷ ನೀರಾವರಿ ಪಂಪ್‌ಸೆಟ್‌ಗಳಿವೆ. ಉತ್ಪಾದಿತ ವಿದ್ಯುತ್‌ನಲ್ಲಿ ಶೇ.40ರಷ್ಟು ಪಂಪ್‌ಸೆಟ್‌ಗಳಿಗೆ ಹೋಗುತ್ತಿದೆ. ಇದರಲ್ಲಿ ಉಳಿತಾಯ ಮಾಡಿದರೆ ಸರಕಾರದ ಬೊಕ್ಕಸದ ಮೇಲಿರುವ ಭಾರ ತಗ್ಗಿಸಬಹುದು ಎಂದು ಹೇಳಿದರು. ಉಳಿತಾಯ : ದೇಶದಲ್ಲಿ ಉಳಿತಾಯ ಕ್ರಮಗಳನ್ನು ಕೈಗೊಂಡಲ್ಲಿ 10 ಸಾವಿರ ಮೆಗಾವ್ಯಾಟ್ ವಿದ್ಯುತ್ ಹೆಚ್ಚುವರಿಯಾಗಿ ಲಭಿಸಲಿದೆ ಎಂದು ಕರ್ನಾಟಕ ನವೀಕರಿಸಬಹುದಾದ

ಇಂಧನ ಅಭಿವೃದ್ಧಿ ನಿಗಮ ವ್ಯವಸ್ಥಾಪಕ ನಿರ್ದೇಶಕ ಡಾ.ಬಿ. ಶಿವಲಿಂಗಯ್ಯ ಪ್ರಾಸ್ತಾವಿಕ ಭಾಷಣದಲ್ಲಿ ತಿಳಿಸಿದರು. ಸೌರಶಕ್ತಿ, ಜೈವಿಕ ಇಂಧನ ಬಳಸಿದರೆ ಒಳಗೆ ಲೋಡ್‌ನಲ್ಲಿರುವ ಒತ್ತಡ ಕಡಿಮೆ ಮಾಡಬಹುದು. ಇದರಿಂದ ಹಣ ಹಾಗೂ ವಿದ್ಯುತ್ ಉಳಿತಾಯವಾಗಲಿದೆ ಎಂದರು. ಕೆಂಚನರಸೇಗೌಡ ಅಧ್ಯಕ್ಷತೆ ವಹಿಸಿದ್ದರು. ಕೆಪಿಟಿಎಲ್ ನಿವೃತ್ತ ಹಾಂತ್ರಿಕ ನಿರ್ದೇಶಕ ಗೋವಿಂದಪ್ಪ ಸಮಾರಂಭದಲ್ಲಿ ಭಾಗವಹಿಸಿದ್ದರು. ಇಂಧನ ಉಳಿತಾಯ ಸಪ್ತಾಹ ಡಿ.14ರಿಂದ 21ರವರೆಗೆ ನಡೆಯಲಿದೆ.

'Need to save precious energy growing in India'

TIMES NEWS NETWORK

Bangalore: December 14, World Energy Conservation Day, so crucial for the nation, was observed on Tuesday.

At the onset of Energy Conservation Week, managing director of Karnataka Renewable Energy Development Ltd (KREGL) B. Shivalingaiah said that, "Energy needs to be conserved where it is consumed the most."

At the macro level, India has an installed capacity of about 1,10,000 mega watt (MW) of electricity, which is considered 15 per cent short of the peak demand. At the state level, in Karnataka, while the installed capacity is about 5,000 MW, the present gap between supply and demand is a whopping 1,397 MW, the off-peak demand half of that number.

Sales of solar cooker, solar lighting and solar heaters are rising at the one-and-half year old solar shop put up by KREDL, said Shivalingaiah, and added that 6-7 per cent of the city's population had opted for solar heaters and in about two years, they had received their return on investment.

Similarly, the timeframe for return on investment in case of solar cookers is three years and about six years in case of solar lighting, added Shivalingaiah.



The Institution of Engineers (India)

Karnataka State Centre

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Chairman

B.N. Thyagaraja, FIE

Editor & Honorary Secretary

Dr. M. Chowde Gowda, FIE

DECEMBER 2004

Price : 50 Paise

ENERGY CONSERVATION WEEK

The Institution of Engineers (India), Karnataka State Centre celebrated **Energy Conservation Week** from 14th December, 2004 to 21st December, 2004 jointly with Karnataka Renewable Energy Development Ltd (KREDL), a nodal agency for energy development in Karnataka. The Inaugural Function was held on **14th December, 2004** at The Institution of Engineers (India), Karnataka State Centre premises and attended by nearly 100 engineers comprising of members of IEI, KSC & KREDL, KPTCL and energy consumers.

Energy conservation is the need of the hour due to the fact that power demand

is growing exponentially. But, power generation is not growing even in arithmetic progression. Hence, attention is to be focused on energy conservation and improving energy efficiency in all spheres, especially in transmission, distribution and utilization. KREDL is the designated agency to implement the Energy Conservation Act in Karnataka.

Majority of the industries and almost all commercial, domestic and irrigation pumpsets are working without proper knowledge about electrical efficiency of equipments. Of the many forms of energy sources, hydro electric power cannot be tapped fully due to environmental and

other local issues. Thermal power using conventional Coal, Diesel, etc has limited availability of fossil fuel and needs to be imported. So, using renewable energy sources for power generation is the only solution available. But the unit cost of generation through wind, solar, biomass, etc is very high. The immediate need is to conserve energy usage as much as possible. It is estimated that about 10000 MW of power can be saved across the country by energy conservation alone. The slogan, **"One Unit Saved is Two Units Generated"** shall be kept in mind always and at all levels.

Er. B.G. Rudrappa, Former Chairman, KPTCL inaugurated the function and **Dr. B. Shivalingaiah**, Managing Director, KREDL delivered the Key-note Address. A Book on **"Energy Conservation"** brought out by KREDL and meant for educating the public in general and students in particular was released by **Er. S. Govindappa**, Former Technical Member, KPTCL. **Er. S Balaveerasena** Convener, Electrical Engineering Division, IEI, KSC welcomed the gathering. **Er. Vishnu. A Chinagundi** of KREDL proposed Vote of Thanks.

Er. Rudrappa spoke at length emphasizing the above aspects of energy conservation and pointed out that out of the total energy generated in the country 28 to 30 per cent is lost in transmission, distribution and utilization. By identifying the areas of higher losses, attempts have



Er. B.G. Rudrappa lighting the lamp at the Inauguration of Energy Conservation Week. Others seen from L to R : Er. S. Govindappa, Dr. B. Shivalingaiah & Er. D. Kencharase Gowda



The Committee of Karnataka State Centre conveys to its Members and their Families Seasons Greetings and Best Wishes for a Very Happy and Prosperous New Year

Kannada version of the book BEACON issued by BEE

ಇಂಧನ ಉಳಿತಾಯ ಸಾಪ್ತಾಹ

14-12-2004 ರಿಂದ 21-12-2004



ಇಂದಿಗೂ ಎಂದೆಂದಿಗೂ



ಕರ್ನಾಟಕ ನವೀಕರಿಸಬಹುದಾದ ಇಂಧನ ಅಭಿವೃದ್ಧಿ ನಿಯಮಿತ

ವಿದ್ಯುತ್ ಪರಿಶೋಧನೆ ಹಾಗೂ ವಿದ್ಯುತ್ ಉಳಿತಾಯಕ್ಕಾಗಿ ನೇಮಿಸಲ್ಪಟ್ಟಿದೆ

19, ಮೆ|| ಜ|| ಎ.ಡಿ.ಲೋಕನಾಥನ್ ಇನ್‌ಫಿನ್‌ಫಿಟಿವು, ಕ್ವೀನ್ಸ್ ರಸ್ತೆ, ಬೆಂಗಳೂರು - 560 052.

ದೂರವಾಣಿ : 22282221/22208109 ಫಾಕ್ಸ್ : 22257399 ವೆಬ್‌ಸೈಟ್ : <http://www.kar.nic.in/kredl>

Energy Conservation Week

From 14th Dec to 21 Dec 2004

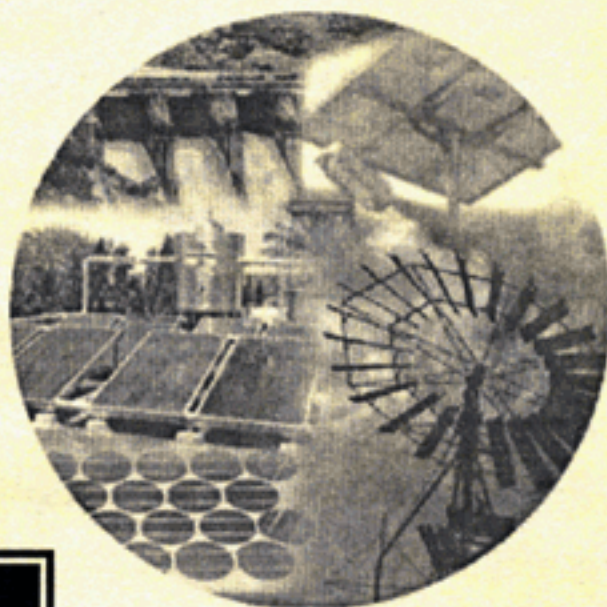
Government of India observe 14th December 2004 Every Year as "Energy Conservation Day"

On this Occasion Karnataka Renewable Energy Development Ltd (KREDL) Undertaken various programmes for Energy Conservation and Also propagated alternate sources of energy such as wind energy solar energy small Hydro Bio - Mass Energy etc. in Rural Areas.

Further to propagate alternate sources and to mitigate the shortage of energy and bring awareness amongst students / youths by various methods including establishment of several energy clubs in various colleges by KREDL through NSS

In this Occasion Industries, Govt, Non Govt department NGO's, Youths Clubs, NSS Volunteers, and Students Co-operative and follow the formula of energy conservations and make it a successful "campaign, Let Karnataka be the role model to the others for utilizing energy" for more information regarding Energy Conservations and Audit Contact KREDL

The Government of Karnataka has designated
Karnataka Renewable Energy Development Limited
(KREDL) as "The Designated Agency" to
co-ordinate, regulate and enforce the provisions contained
in the Government of Karnataka Notification No. DE
22PSR 2002, dated 13.05.2004
(G.O. No. PR 361 part 4A dated 03-06-2004)



Formulae for Energy Conservation

- Use Compact Fluorescent bulbs / Fluorescent bulbs in place of incandescent bulbs.
- Overhaul electrical equipment and motors from time to time.
- Use electrical motors of suitable capacity as recommended by technical advisors.
- Get your electrical motors repaired only by authentic and experienced technician.
- Switch off electrical appliances while not in use.
- Conserve electricity by using solar energy for equipment like water heaters, domestic lights and street lights.
- Install motors with ISI mark.
- Adopt energy saving measures by installing energy saving equipments.
- Consumption of electricity can be reduced by 50% if solar power is used during daytime in all government establishments, offices, private enterprises, schools, colleges, business establishments, canteens and railway stations.
- Use solar power for sign boards and decorative items.
- Reduce unnecessary usage of fans, lights, refrigerators and airconditioners during office hours.
- Industries and commercial buildings must be subjected to energy audits by energy auditors.
- Avoid wastage of electricity by switching off your computer monitor when not in use.
- Install electronic regulators to fans.



Karnataka Renewable Energy Development Limited.

Designated Agency for Energy Conservation and Audit

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One Unit of Energy Saved is two Units of Energy Generated



*Karnataka
Renewable
Energy
Development
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