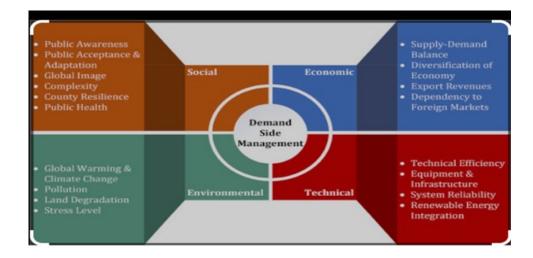


Energy Conservation is a way of life

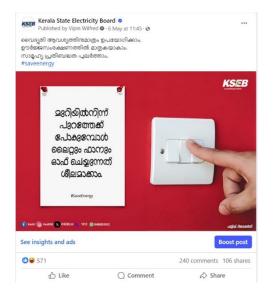
KSEB, a publicly owned entity, supplies electricity to the consumers in Kerala. To meet 70% of the power demand KSEB purchases electricity from external sources, primarily comprising of thermal power, which has adverse impact to the environment. During the monthly meeting, the Chairman & Managing Director directed to initiate an Energy Education series to address misuse of electricity and started its implementation in November 2023.



CMD instructed the Public Relations Department to promptly raise awareness about Energy Conservation and its environmental importance among public. In response, the Public Relations Department began steps for energy education, including developing a roadmap for Demand Side Management (DSM).



The Public Relations Department prepared standees highlighting messages about energy conservation. It featured quotes on the importance of energy conservation from well-known personalities like Gandhiji, APJ Abdul Kalam, Nikola Tesla, and Albert Einstein. Additionally, animated videos were broadcasted through social media and WhatsApp to further spread the awareness. These standees were first exhibited at KSEB and then showcased at the Shivagiri Exhibition, Mukkam Fest, National College Thiruvananthapuram, and the International Energy Fest at Tagore Theatre to spread the message on Energy Conservation.





As part of the energy conservation campaign, awareness messages were sent to the public on daily basis for a month starting from 14th December 2023 "National Energy Conservation Day". On the same day, banners highlighting the importance of Energy Conservation were displayed at KSEB offices and all the staff participated in the Energy Conservation pledge. Directors and Chief Engineers took part in the Energy Conservation awareness campaign at Vydhyuthi Bhavan and led the pledge.

A discussion was held on 14th December regarding the capacity building program of Bureau of Energy Efficiency (BEE), and eventually an MoU between BEE, KSEB and EMC-Kerala was signed, as per the direction of the CMD. BEE contributed support of two professionals through PMA to KSEB and a special wing within the Public Relations Department was initiated to spread awareness on energy conservation and plan DSM measures.

Following are their major contributions:

- Provided support in preparing content for the DSM awareness campaigns.
- Prepared Detailed Project Reports (DPRs) for replacing inefficient conventional ceiling fans with energy-efficient BLDC fans. This fan program targets both domestic and commercial consumer categories.
- Discussions are ongoing with various BLDC fan manufacturers, including Luker, Polycab, V-Guard, Dewton, Crompton, Usha, and Atomberg, for participation in the BLDC fan program of KSEB.
- Base price quotes have been received from Luker, Dewton, Polycab, Crompton, and Atomberg, and forward discussions are taking place regarding these quotes.
- Documentation for vendor empanelment by KSEB is currently under preparation.

 Program document for the Net Zero Village program and DPRs for the Demand Response pilot program and the Awareness program are under preparation.

From January onwards we decided for a high voltage campaign to address the summer electricity demand. KSEB realize that every year 4 to 5 percent growth is added to our system. But we envisaged a 10 percent minimization through DSM activities. The aim was to make the consumers voluntarily reduce their electricity demand.

For that, we initially conducted a meeting with media persons of Radio, TV, Print and New media and assured their full cooperation. They demanded for daily news release for which we circulated daily 2 to 3 releases & updates and arranged Audio and Video bytes.





ഉപയോഗം പരിധിക്കപ്പുറം ഉയർന്നാൽ ഗ്രിഡ് സ്വയം നിലയ്ക്കും

നിർദേശങ്ങൾ നാർ

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KSÆB

ദേശാഭിമാനി. 08-04-2024

ഉയർന്ന വൈദ്യുതി ഉപയോഗം

വൈദ്യുത വാഹന ചാർജിങ് സമയം ക്രമീകരിക്കണം: കെഎസ്ഇബി

റം റെക്കോഡ് ദേദിച്ച് രുന്ന സാഹചര്യത്തിൽ ചദ്യുത വാഹന ചാർജിങ് 2ന് ശേഷമോ പകൽ achights

തിയെത്തിക്കാനുള്ള തീവൃശ്രമ മാണ് നടത്തുന്നത്. വൈദ്യത വാഹനങ്ങളുടെ എണ്ണം വൻ തോന്തൽ ചാർജ് ചെയ്യു സേദയത്ത് ചാർജ് ചെയ്യു സോൾ ടാൻസ്ഫോർമറുകളു ടെ ലോഡ്

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ഉരുകുന്ന ചൂട്, കുറയുന്ന വൈദ്യുതി

ഉപഭോക്താക്കളുടെ സഹകരണംതേടി വൈദ്യുതിവകുഷ്

വാക ഇ ണമുറിയിൽ ടി.വി. ക്രൂത്. ഉ കുടുംബം മറ്റു മുറി. ഒരു യൂ പശക്ഷിലാത്ത ഫാ. റച്ചാൽ 5 പീക്ക് സമയം ഉപയോക് 5 ഉപഭോഗം കു ണിറ്റ് ഉപ കോടി യൂണിറ്റ് 1.38 കോടി

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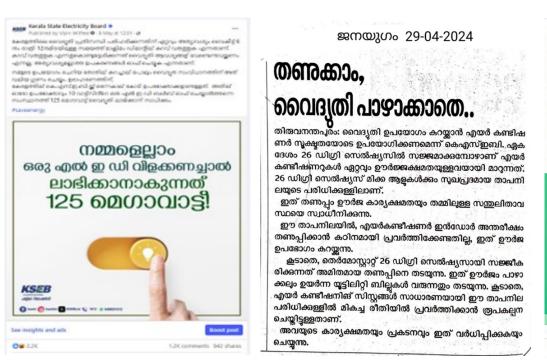
വൈദ്യുതി ഉപയോഗം 5563 മെഗാവാട് ർന്ന ഉപയോഗസമയത്ത് ചരിത്ര വിലത്തെ റെക്കോഡ്.

໑ຘຓ

വൈകിട്ട് ഉയ 111.7 ദശലക്ഷം യൂണിറ്റാണ് നില ണ്ട്.

സംസ്ഥാനത്തെ ശനി വൈകിട്ട് ത്തിൽ ആദ്യമായാണ് ടംരാന് മുക ആറുമുതൽ 12 വരെ വൈദ്യൂതി ജിൽ എത്തുന്നത്. വ്യാഴാഴ്ച ടടടം തുടരുകയാണ്. എസിയുടെ ഉപ ഉപയോഗം ടടഭം മെഗാവാട്ട്. ഒതര ആയിരുന്നു. ശനിയാള 110.1475 ദേശ യോഗവും വൈദ്യൂത വാഹന ചാ മൂത്തര 12 വരെ ബെക്ടുണ് ഈ എന്നും നേട്ട് 10,475 ദശ യോഗവും വൈദ്യുത വാഹന ചാ ടുപ്പ് ദിനമായ വെള്ളിയാഴ്ച ലക്ഷം യൂണിറ്റിന്റെ ആവശ്യക്ത ർജിങ്ങും വർധിക്കുന്നതടക്കം റെഡ് മേദിച്ച് ടങ്ങ് മെഗാവാ യുണ്ടായി. കഴിഞ്ഞ ബെതിലെ വൈദ്യുതി ആവശ്യം ഉയരുന്നു

Energy saved is Energy generated

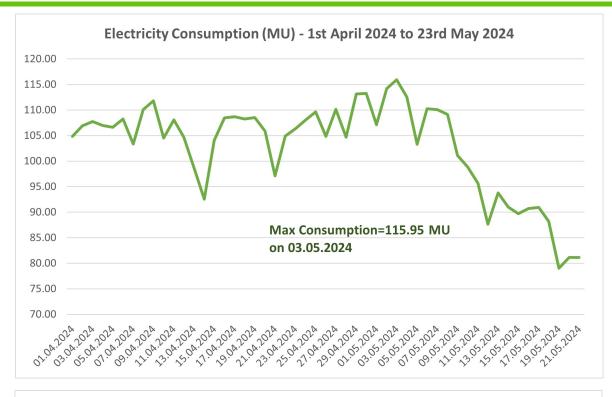


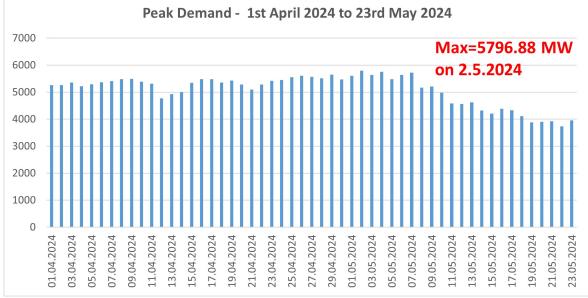


Daily releases on various issues related to energy conservation and importance educated public and paved way to success stories in DSM.

- Media helped significantly and they took our DSM initiative as a social responsibility on themselves. They did not carry a negative news and everyone cross-checked with KSEB Public Relations Department.
- Modified 2 Adult films casting Manju Warrier, Anoop Menon and Jayaram on energy awareness and shared through social media. Manorama news and Lulu Mall displayed these videos for public reach out free of charges.
- We initiated a campaign in all offices of KSEB and other government establishment to ensure the essential electrical appliances like fans, lights, etc. are 'Switched OFF' after office hours / when not required.
- Social Media Campaigns were done to disseminate awareness and promote no cost energy saving measures.
- Support of public in response to the request for reducing the demand were acknowledged and messages appreciating their contribution were given on days when there were decrease in the Peak Demand.
- Print, Video and Audio media shared awareness on energy with great importance and it was accepted by the public at large. How we were able to withstand the summer and the reduction in the consumption of electricity thereafter validates the effectiveness of our campaign. These activities were carried out without any financial liabilities.

4





Along with Public Relations, Planning department also actively participated in the DSM Activities.

More Insights on Demand Side Management - 2024 Activities in KSEBL

The state was going through a harsh summer of 2024 (March) when the electricity demand has touched 102 million Units (MU) a day and peak of 5076 MW. During any given day, the electricity demand in Kerala is highest between 7 pm and 12 pm and situation could be mitigated only through the concerted effort of the consumers by voluntarily reducing their electricity demand.

To overcome this unusual increase in demand, it was decided to roll out Demand Side Management activities effectively across Kerala.

5

The activities discharged towards accomplishing DSM Initiative 2024 are as follows:

The proposed Demand Side Management (DSM) are listed below-

- 1. The domestic consumers may be urged to shift the use of equipment like pump sets, washing machines, geezers & water heaters, induction cookers etc. to solar hours; e-Vehicle users also may be prompted to charge the vehicles in this fashion.
- 2. To save energy, consumers may be requested to set the temperature setting of air conditioners above 25 degrees. Use of BLDC fans, energy efficient lighting and electrical equipment's may be encouraged. Details of energy saving and reduction in bills may be specified.
- 3. Energy Conservation Measures may be strictly ensured in Government Offices.
- 4. Functioning hours of offices may be staggered to the extent possible, to minimize the energy requirement during peak demand hours.
- 5. Government and Commercial consumers may be requested to minimize the illumination and lighting load during peak hours.
- 6. The industrial consumers working on shifts may be requested to align their usage pattern to offpeak hours.
- 7. Agricultural consumers are provided electricity at subsidized rates, and they may be requested to use pump-sets only during solar hours.
- 8. Electrical section office level local advisory committee meeting may be convened by including members of local body, convenor of energy security mission, representatives of commercial and industrial entrepreneurs, residents' associations etc. as invitees for creating awareness about Demand Side Management and to arrange circle level training for the concerned officers.
- 9. PRO shall prepare pamphlets, organize campaigns for an awareness to the consumers about DSM and arrange study materials specifying the present power requirement of the State, power purchase cost, etc. for the presentation in Local Advisory committee meeting.
- 10. Promotion videos by celebrities exhorting the need for energy conservation may be telecast in TV Channels/FM etc.

Meeting Convened

- 1. Director level meeting to discuss on DSM Initiate was held on 06.03.2024 and it was decided to initiate DSM Drive by 15th Mar 2024.
- 2. Chairman & Managing Director addressed the Deputy Chief Engineers on 12.03.2024 and directed to initiate DSM drive by involving all employees.
- 3. Meeting with representatives of all the Trade Unions, Officers Associations and Pensioners Associations to discuss the DSM Activities was convened on 21.03.2024.
- 4. Online Review Meeting with Deputy Chief Engineers convened on 21.03.2024.
- 5. Hon Electricity Minister has convened a meeting on 02.05.2024 to discuss about the prevailing Power Crisis and immediate actions to be taken.
- 6. Online review meeting was convened by Hon Electricity Minister on 09.05.2024.

6

Actions initiated by KSEBL

- The Chairman and Managing Director issued Proceedings on 12.03.2024, for assigning responsibility of various Districts/Circles to the Directors and Functions which includes monitoring of DSM Activities. (Order No. 109/2024(CMD/107/Nodal Officers/2024 dated 12.03.2024). Responsibilities assigned to the Directors attached as Annexure 1
- Letter with proposals for DSM activities was submitted to the Additional Chief Secretary, Power, Gok on 13.03.2024.
- Office Order (CMD) No.431/2024(CP/PLG/AE2/DSM), TVPM dated 21.03.2024 on Demand Side Management (DSM) Activities across Kerala- was issued. (Attached as Annexure 2)
- DO letter dated 25.03.2024 was given to the Chief Secretary, Gok for implementing DSM activities in all Govt Departments across Kerala.
- A circular on 'Power Crisis in Kerala' dated 03.05.2024 was issued to all the staff in KSEBL for immediate action. Circular is attached as Annexure 3.
- A google sheet was circulated among all Electrical Circles with direction to update the DSM activities. The following activities were conducted as on 22.05.2024 by various KSEBL offices across Kerala.
- Classes/ Meetings arranged 2489 (Nos)
- Local Advisory Meetings Conducted 480 (Nos)
- Message snippets aired in Cable TV/FM Radio/News Media 2567 (Nos)
- House /Industry/ Shop campaigns 45291 (Nos)
- Notice Distributed/ Front office campaign 184645 (Nos)
- Mic Announcements done 521 (No of sections)
- DSM Messages posted in Public/Consumer WhatsApp groups/social media 14669 (Nos)

Actions initiated at Government level

- The Additional Chief Secretary, Power Department has issued a Circular to all the Heads of Departments and all departments in Government Secretariat including finance and law on 11.04.2024 for implementing DSM activities across all departments.
- Circle wise action taken report on the decisions taken during the meeting convened by Hon Electricity Minister on 02.05.2024, was submitted to government on 07.05.2024.
- The Additional Chief Secretary (Power) has given instructions to Principal Secretaries of Industries Department, Local Self Government Department, Agriculture Department and Water Resource Department on 07.05.2024 to reduce the power usage during peak hours.

Sum up

Energy Conservation is a way of life. We are thankful to all who actively participated in Energy Literacy and Conservation Campaign. If we continue the efforts and succeed in much needed behaviour change, we will march towards Sustainable living collectively.
