



ENERGY EFFICIENCY SERVICES LIMITED
A JV of PSUs under Ministry of Power, Government of India

INNOVATING ENERGY

Energy efficiency innovations
for a sustainable future

— July 2024 —





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Editor's note



By
Nitin Bhatt,
Deputy General Manager,
PR & Sales, EESL

Dear Readers,

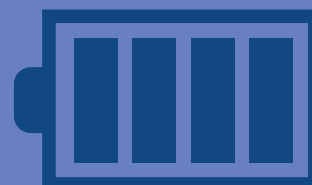
News reports in recent weeks have been rife with incidents of waterlogging, flash floods, and landslides, and the resultant disruption of life, property, and economic activity. There are multiple reasons for what's happening, among which climate change is one of the biggest. Extreme weather events, as we know, are a direct fallout of climate change, which, in turn, has a direct correlation to the way energy is produced and consumed across the world. Global summits such as G20 and COP28 have emphasized the importance of doubling the rate of adoption of energy efficiency measures by 2030 as one of the key elements of climate action.

Even the best of ideas must be accessible in order to be successful. Energy efficiency, for instance, is a concept that must be embraced by one and all – be it urban customers or rural – for it to have the desired impact. And as the past decade has demonstrated so well, the digital medium is a powerful means of taking a new idea, product, or service to India's masses. We are in the middle of an era of a digital transformation that touches almost every aspect of human activity – social, commercial, professional, environmental, governmental, and others – and we must leverage it to promote and accelerate the adoption of energy efficiency across the country.

The rise of e-commerce is a part of this digital transformation. The scope of e-commerce has steadily been expanding to include products and services that were earlier largely sold offline. Today, we can even buy electrical appliances online. EESL

has been an advocate, a pioneer, and a market leader in energy efficiency solutions for many, many years, and we have evolved with the times to ensure that our offerings stay relevant, affordable, and accessible. Our online portal, EESLmart, offers energy-efficient appliances that will enable consumers to embrace a sustainable lifestyle. The product range will expand in the future.

Cooling and lighting are crucial areas of daily life where energy efficiency is already making a positive difference. But they are not the only ones; cooking and personal transportation are equally important. Using energy-efficient electric cookstoves for cooking and using e-bikes for short-to-medium distance travel can yield significant energy-and-cost savings. This newsletter touches upon all these themes in more detail. In the global fight against climate change, we must become climate warriors and ambassadors of sustainability, and energy efficiency suits both roles just fine.



CEO's desk

The Power of Four: Doubling India's Energy Efficiency Through Strategic Appliance Replacement



By
Mr. Vishal Kapoor,
CEO, EESL

In Kim Stanley Robinson's gripping science fiction novel "The Ministry for the Future," the devastating heatwaves serve as a stark reminder of the severe consequences of inaction on climate change. These fictional yet plausible scenarios underscore the imperative to address climate change with urgency. Just as the book illustrates the catastrophic human and ecological impacts of extreme heat, our real-world actions must be guided by the understanding that mitigating climate change is not optional but essential for our survival and well-being.

As we continue to navigate the complexities of climate change and the urgent need for sustainable development, the role of energy efficiency has never been more critical. At Energy Efficiency Services Limited (EESL), we are committed to leading this charge, particularly in light of the resolutions from the G20 and COP28 to double the rate of energy efficiency globally. Achieving these ambitious goals requires innovative thinking, targeted strategies, and a concerted effort across various sectors. One of the most compelling insights from my recent back-of-the-envelope calculations is the transformative potential of focusing on just four key household appliances: fans, air conditioners, bulbs, and tubelights. By replacing these with energy-efficient and super-efficient alternatives, we can make significant strides toward our energy efficiency goals, yielding significant outcomes.

The Bureau of Energy Efficiency estimates that in 2020-21, India saved approximately 113.16 billion units of electricity, which equates to reducing CO2

emissions by 94.44 million tonnes annually. While this is a commendable achievement, the challenge ahead is to double these savings to meet the targets set by international commitments. My calculations show that by focusing on replacing just these four types of appliances with EESL's energy-efficient options over the next five years, we can achieve remarkable results: 166% of the current rate of energy efficiency in just two years of the deployment phase; 226% of the current rate within three years, and by the fifth year, we would be saving three times the current rate of CO2 emissions (triple the rate of energy efficiency).

However, the path to doubling the rate of energy efficiency is not as easy as it may appear from what I have posited above. This represents the overall potential; the strategic change of all these appliances across the country within five years, especially in a market-based environment, is a considerable challenge. The idea of writing this article is to articulate both perspectives: how within reach doubling the rate of energy efficiency is by merely focusing on four appliances, and how difficult it is given the challenges of convincing individuals and organizations to make a complete switch.

Should this be done, how much would it cost? My calculations suggest that this would require a total investment of Rs 37,000 crore over five years, with the Governments across the country spending approximately Rs 9,000 crore in total; while the consumers and the private sector





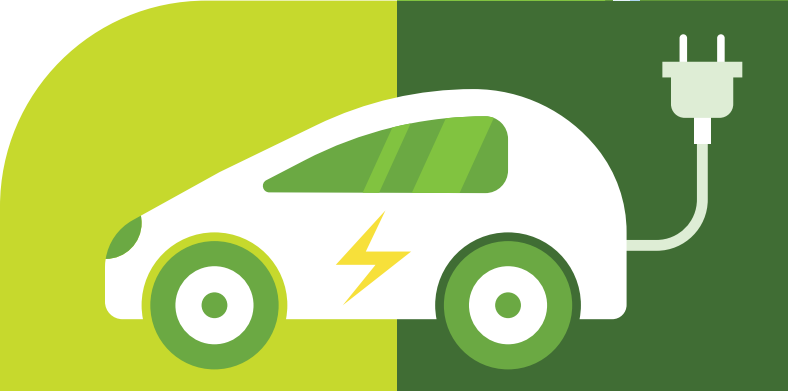
covering the remaining Rs 28,000 crore.

The investment of Rs 28,000 crore by consumers may appear large, but it is not so if defrayed across 31 crore households over five years. Breaking it down, this translates to an annual requirement of just Rs 180 per household per year, which is minuscule. Additionally, the Financial Internal Rate of Return (FIRR) for such a measure is significantly high, with cash flows becoming net positive between the second and third year itself on a national standing. At a consumer level though, due to subsidised cost of electricity, the FIRR is slightly lower, but still throwing up a robust value.

The return on this investment is not just measured in energy savings and reduced emissions but also in the broader impact on sustainable development and climate resilience. Achieving these targets will not

happen organically; it requires a deliberate and concerted effort. As thought leaders and stakeholders in the fight against climate change, we must champion these initiatives and advocate for policies and programs that support large-scale adoption of energy-efficient technologies.

The journey to doubling our rate of energy efficiency is ambitious, but it is within our reach. By targeting the replacement of fans, air conditioners, bulbs, and tubelights, we can unlock significant energy savings and environmental benefits. At EESL, we are committed to driving this change and invite all stakeholders to join us in this critical endeavor. Together, we can create a more sustainable and energy-efficient future for India and the world. Let's harness the power of these four appliances and lead the way in energy efficiency through eeslsmart.in. The time to act is now!



Switch Karo, Save Karo

Induction stoves are transforming households by offering energy-efficient and safer cooking options

By
Mr. Nikhil Agarwal,
Director Operations, KMC



In recent years, a quiet transformation has been taking place in Indian kitchens, driven by the adoption of induction stoves and other forms of electric cooking. This shift towards e-cooking, which encompasses electric pressure cookers, induction cook stoves, and solar induction cook stoves, is transforming households by offering energy-efficient and safer cooking options. These modern appliances can use energy from batteries or direct grid connections, providing flexibility and convenience to users across various settings.

The need for such a transformation in cooking methods is pressing, particularly in India. Traditional cooking means, such as the use of cow dung and firewood, contribute significantly to the country's ambient air pollution, accounting for 20-50% of the total. The impact on indoor air quality is even more severe, with typical Indian kitchen pollution levels exceeding 1000 $\mu\text{g}/\text{m}^3$, far above the World Health Organisation's recommended limit of 15 $\mu\text{g}/\text{m}^3$. This indoor air pollution has dire consequences, leading to approximately 0.8 million premature deaths annually due to Household Air Pollution (HAP).

Recognising the urgency of this issue, the Government of India has launched several clean cooking initiatives over the years. The Pradhan Mantri Ujjwala Yojana (PMUY), introduced in 2016, aimed to promote clean cooking for Below Poverty Line (BPL) households, benefiting approximately 100 million individuals. Additionally, the government has initiated cost-effective Piped Natural Gas (PNG) solutions for Indian households and launched the Go Electric

Campaign in 2021 to promote electric cooking. Despite these efforts, the challenge remains significant, with approximately 442 million people in India still lacking access to clean cooking solutions.

The adoption of electric cooking methods, while growing, is still in its early stages. Currently, almost 5% of Indian households have adopted some form of electric cooking, including 2.7% of rural households and 1.3% of urban households. However, several factors are enabling the increased adoption of electric cooking. These include demand aggregation, technology harmonisation expertise, and energy efficiency improvements. The rising cost of LPG has led to low refilling rates among both PMUY and non-PMUY beneficiaries, making electric cooking more attractive. Furthermore, the electric kitchen appliances market is expected to grow at a compound annual growth rate (CAGR) of around 11-12% from 2016-17 to 2027-28, indicating a positive trend in adoption.

To support this market transformation, Energy Efficiency Services Limited (EESL) has implemented its e-cooking programme, which has already shown promising results. In 2023, EESL distributed 20,000 electric induction cook stoves to community centres and anganwadis in Ladakh, the Northeast region, and other states. They also launched solar-based induction cooking solutions for rural and semi-urban households, with a pilot phase distributing 100,000 Solar Induction Cooking Systems (SICS) to intended households. Additionally, EESL





marketed 20,000 electric pressure cookers through various channels.

The impact of these e-cooking programs extends beyond individual households. EESL's initiatives are directly linked to several Sustainable Development Goals (SDGs), including those related to poverty alleviation, zero hunger, good health and well-being, quality education, gender equality, clean water and sanitation, affordable and clean energy, reduced inequalities, climate action, and life on land.

Electric stoves, particularly induction stoves, bring climate change action directly into homes and kitchens. They offer numerous benefits from a consumer standpoint, being safe to use, easy to clean, and allowing for greater control over cooking temperature. Induction cooktops are especially energy-efficient, with efficiency levels around 5-10% higher than conventional electric stoves and three times higher than gas stoves. This increased efficiency translates to faster cooking times and cost savings of roughly 25-30% compared to conventional cooking methods.

The adoption of electric cooking aligns with India's commitment to meeting its developmental and environmental goals. The government has set

ambitious targets for reducing the country's greenhouse emissions and is actively promoting healthy and sustainable lifestyles. Initiatives like Mission LiFE, launched in 2021, encourage mindful and responsible use of resources and sustainable lifestyle choices. Energy-efficient electric cooking methods contribute significantly to these efforts across all regions and socioeconomic strata.

As India continues to enhance its renewable energy generating capacity, the time is ripe for promoting and adopting electric cooking on a larger scale. The initiative by EESL to distribute 2 million induction cook-stoves across the country under the National Efficient Cooking Programme is a significant step in this direction.

With each passing year, the adverse effects of climate change become increasingly evident. By embracing induction stoves and other forms of electric cooking, households can contribute to climate change action and improve the quality of life for millions of people. This simple lifestyle change has the potential to transform not just individual kitchens, but the entire nation's approach to cooking, health, and environmental sustainability.



Switch Karo, Save Karo



EESLMart: A one-stop solution for energy-efficient appliances that will bring about a sustainable lifestyle change



By
Mr Animesh Mishra, Chief General Manager and Head (Sales & PR), EESL and
Mr. Adesh Saxena, General Manager (Technical), EESL

The digital medium is the best available means today to take any idea, product, or service to large numbers of people across socioeconomic and geographic boundaries. As Energy Efficiency Services Limited (EESL) looks to mainstream energy efficiency, its e-commerce portal looks to serve two very important purposes: educate people about the cost and lifestyle benefits of adopting future-ready, energy-efficient solutions, and enabling easy access to the relevant products and services. EESLMart is more than just an e-commerce site; it is a gateway to a sustainable future.

EESLMart offers a range of energy-efficient appliances designed to meet the cooling and lighting needs of Indian consumers, while also promoting environmental sustainability and sustainable lifestyles. The products available on the portal include:

Super-efficient air conditioners: These split air-conditioners provide superior cooling performance and reduce cooling costs by up to 50 percent. They are available in capacities of 1.0 TR and 1.5 TR.

BLDC ceiling fans: Available in two variants that can be operated through either a remote control or a wall-mounted regulator, these fans come with a service value of 7.33, a three-year warranty, and can operate on voltages ranging from 140 V to 285 V.

LED bulbs: These include 5-star 6W bulbs and 3-star 9W bulbs. These bulbs undergo strict quality control checks during pre-manufacturing, manufacturing, and post-manufacturing stages.

Inverter bulbs: These 10-Watt 1050-Lumen rechargeable inverter bulbs have up to four hours of battery backup and are designed to provide illumination during power failures. They serve as an

emergency lighting solution for various settings, including institutional and industrial environments.

Although it is only a beta version of the portal that has been launched for now, there are plans to include a wider range of energy-efficient products, including electric bicycles and induction cookstoves, in the future. The platform is also expanding into the B2B sector, helping businesses reduce both their overhead operating costs and their carbon footprint through the use of energy-efficient electrical appliances.

The EESLMart portal is user-friendly and allows customers to easily browse, select, and purchase the products they need. By providing detailed product descriptions, customer reviews, and estimated energy savings for every product, the platform helps buyers make informed decisions. EESLMart also provides exceptional customer service, ensuring that customers have the necessary support to maximize their benefits of the products they select. The smooth procure-to-pay and order-to-cash experience is designed to encourage greater adoption among consumers, even those who are shopping online for the first time or have limited knowledge of e-commerce.

Adopting new products or ideas calls for a mindset change, which isn't always easy to achieve. The educational role that EESLMart plays is important in this context, as it helps in dispelling any misconceptions that might exist about the cost-effectiveness and the functional benefits of energy-efficient technologies. This, we hope, will encourage trials at first; build trust and loyalty over time; and gently nudge consumers towards making other sustainable choices in other spheres of their lifestyle, too.



Future of digital transformation and innovation



By
Mr. Abhishek Agarwal,
Head - Information Technology &
Energy Portfolio Management, EESL

Economic development often results from a confluence of social changes, with digital transformation emerging as a recent and prominent manifestation of such shifts. Extensive research and analysis by experts have delved into this evolving phenomenon to decipher its implications, benefits, drawbacks, and repercussions on both social practices and employment. The primary objective remains catalysing a successful and efficient digital transformation.

In recent decades, the relentless tide of globalization has imposed escalating pressures on businesses, compelling them to undergo transformative processes. Survival and prosperity in competitive landscapes now hinge on businesses adeptly integrating digital processes and collaborative tools (White, 2012). Consequently, the importance of digital transformation has surged. Research emphasizes the imperative inclusion of digital transformation in existing business perspectives, recognizing its broader scope beyond mere technological shifts (Bouncken et al., 2021). Digital transformation permeates multiple or all segments of business, with success achieved through simultaneous exploitation and exploration of its offerings to attain organizational agility (Hess et al., 2016).

Disruptive changes, stemming from digitalization and potentially rendering current business models obsolete (Parviainen et al., 2017), instigate digital transformation in various environments. Rapid or disruptive innovations in digital technologies trigger high levels of uncertainty, prompting industries and companies to adapt through diverse means, such as banks implementing e-banking for competitive advantages. Agile and innovative businesses incorporate transformation requirements into their strategies to maintain competitiveness and respond

to new opportunities, fortifying resilience against risks (Bondar et al., 2017). This underscores the vital role of digital transformation in staying competitive in a digital economy (Liu et al., 2011). Additionally, digitalization yields productivity enhancements, cost reductions, and innovations that also influence digital transformation (Hess et al., 2016).

Furthermore, digital transformation not only induces changes within an industry but also has far-reaching impacts on societies. As the importance of digital transformation becomes increasingly evident, it is accompanied by heightened expectations.

Phases for building digital transformation

Defining the implementing strategy milestones for the company's digital transformation: This step involves breaking down the strategic goals into specific milestones and action plans. It includes defining the steps and activities that need to be taken to implement the digital transformation strategy.

Digital transformation of the customer experience: This step focuses on transforming the customer experience by leveraging digital technologies. It involves redefining customer interactions, improving customer service.

Digital transformation of the product and service offer: This step involves transforming the products and services offered by the company. It includes developing digital products, integrating digital features into existing products, and enhancing the value proposition through digital innovation.



ICT Integration: This step involves integrating information and communication technologies (ICT) into the business processes and operations. It includes adopting and integrating digital tools, platforms, and systems to enable digital transformation.

These steps provide a comprehensive framework for approaching digital transformation, taking into account the various dimensions and aspects of the transformation process.

Challenges in Implementing a Digital Transformation Roadmap

Cultural Resistance and Change Fatigue:

Organizational culture often poses a significant challenge to DT initiatives (Hagberg et al., 2016). Resistance to change, coupled with change fatigue, can impede progress. Overcoming these challenges requires targeted cultural interventions and effective communication strategies.

Legacy Systems and Technological Debt:

Many organizations grapple with legacy systems that hinder agility and innovation (Kauffman et al., 2010). Addressing technological debt becomes crucial in crafting a roadmap, necessitating a phased approach to modernize systems while ensuring continuity.

Success Factors in Digital Transformation Roadmaps

Agile and Iterative Approach:

The dynamic nature of the digital landscape necessitates an agile and iterative approach to DT (Bierwolf, 2016). Iterative strategies allow organizations to adapt quickly to evolving technologies and market dynamics.

Customer-Centric Focus:

Digital transformation success is intrinsically tied to understanding and meeting customer needs (Parviainen et al., 2017). A customer-centric approach involves leveraging digital technologies to enhance customer experiences and build lasting relationships.

In conclusion, crafting a roadmap for digital transformation is a multifaceted endeavour that requires a strategic, adaptive, and inclusive approach. Drawing from the insights of foundational literature, organizations can construct a roadmap that aligns technological advancements with overarching strategic goals. Challenges such as cultural resistance and legacy systems must be addressed with targeted interventions, while success factors like agility and customer-centricity should guide the implementation process.



Beat the heat and lower your bills with energy-efficient ACs and BLDC fans

By
Mr. Ashish Malviya
Deputy General Manager
(Technical), EESL



The onset of the monsoons in India has brought some respite from the scorching summer heat, but the fact remains that the average temperatures across the country, and across the world, continue to rise as compared to the previous years. Fans and air conditioners are being used on more days than before, and for more time each day. Indoor cooling is slowly going from being a luxury to a necessity. At the same time, in the interest of limiting greenhouse emissions, it is also important that our cooling appliances consume as less energy as possible. A report by the International Energy Agency in 2023 noted that the world needed to double its progress on energy efficiency by 2030 to improve energy security and affordability while limiting global warming to acceptable levels. I believe that efforts in this direction should begin at home. The need for energy-efficient fans and air conditioners has never been stronger.

About 40 million ceiling fans are sold in India every year, and they account for a major part of our electricity bills. A CEEW survey in 2020 revealed that only 3% of Indian households used star-rated fans. However, in recent years, consumer awareness about climate change and sharper focus on energy savings has led to an increase in demand for super energy-efficient fans, or BEE 5-star rated fans. At present, this segment is largely being catered to by brushless direct current (BLDC) fans.

BLDC fans are a very attractive proposition for both retail and corporate customers. They consume up to 60% less electricity as compared to conventional fans, thereby leading to a huge reduction in electricity bills. BLDC fans are noiseless, have a longer lifespan, and are easy to use. Many of them can be operated with a remote control and come with features such as a timer and a 'sleep mode'. Although BLDC fans are priced higher than conventional fans, they make up for the cost difference within two years. The cost of

ownership of a BLDC fan is eventually much lower than that of a conventional fan.

Although fans are the most commonly used cooling appliance in Indian households, the number of air conditioners being sold is rapidly increasing. Like in the case of fans, energy-efficient variants of air conditioners yield huge energy and monetary savings while providing the same levels of comfort as regular ones. By simply retrofitting the air conditioning systems in old buildings, we can improve air quality and thermal comfort, and save up to 30-35% of energy.

There is a programme underway wherein consumers can buy super-efficient air conditioners distributed by EESL at prices that are comparable to other energy-efficient air conditioners in the market. However, there is a big difference in their performance. EESL's super-efficient air conditioners provide 1.5-TR cooling capacity at high ambient temperature while reducing the cost of cooling by 50 percent.

It isn't enough to merely be aware of the need for climate action or to worry about the rising cost of living; we need to be active participants in bringing about a positive change. By doing something as simple as switching to energy-efficient fans and air conditioners, we can keep down the heat and our electricity bills, both at once.



Empowering Your Home: Embrace Green Choices and Save Big with EESLMart

By
Ms. Priyal Prakash,
Officer, Public Relations, EESL



In today's world, making environmentally conscious decisions is more important than ever. At EESLMart, we are dedicated to empowering consumers with green choices that not only benefit the planet but also provide significant savings on your energy bills. Our wide range of energy-efficient products is designed to help you transform your household into an eco-friendly haven.

One of our most popular offerings is the range of inverter bulbs, 6W LEDs, and 9W LEDs. These lighting solutions provide excellent illumination while consuming minimal energy. For instance, our 6W LED bulbs offer a remarkable 150 lumens per watt, ensuring bright and efficient lighting. Similarly, our 9W LED bulbs are highly energy-efficient, consuming only 9W. These LED bulbs use a fraction of the power compared to traditional incandescent bulbs and last significantly longer. By switching to LED lighting, you can reduce your electricity consumption and cut down on replacement costs, making it a win-win for both your wallet and the environment. Additionally, our inverter bulbs come with a rechargeable battery that provides up to four hours of backup during power outages, ensuring you never stay in the dark.

Our BLDC fans are another game-changer in energy efficiency. These fans consume up to 65% less power, operating at just 28-30W compared to the 70-80W of conventional ceiling fans, without compromising on performance. With features like remote control operation and adjustable speeds, BLDC fans offer both convenience and savings. These fans also come with over and under voltage protection, enhancing their durability and reliability. By upgrading to these advanced fans, you can keep your home cool during the hot months while drastically reducing your energy bills.

When it comes to cooling your home, or energy-efficient air conditioners stand out. EESLMart offers a range of AC units that use the latest technology to provide optimal cooling with minimal energy consumption. These air conditioners are designed to maintain a comfortable indoor temperature without the hefty electricity costs associated with traditional models, saving up to 640 units of electricity annually.

For those looking to upgrade their kitchen appliances, our induction cooktops are an excellent choice. Induction cooking is not only faster and more precise but also more energy-efficient compared to conventional gas or electric stoves. Our induction cooktops come with advanced safety features, ensuring a safe cooking experience. Additionally, they come with a warranty of 18-24 months, giving you peace of mind with your purchase. By using induction cooktops, you can reduce cooking time and energy usage, leading to lower utility bills.

At EESLMart, we believe that every small step towards energy efficiency can make a big difference. By embracing our range of sustainable products, you can contribute to a greener future while enjoying significant savings. Transform your home into an energy-efficient haven and join us in making smart, eco-friendly choices. Visit EESLMart today and discover how our products can help you lead a more sustainable and cost-effective lifestyle.





Key EESL event highlights

EESL Hosts Channel Partners Empanelment Meet in Bhubaneswar to accelerate the adoption of its Energy Efficiency Initiatives



EESL Partners with Woman entrepreneur to Boost Energy Efficiency Adoption in Telangana





Key EESL event highlights

EESL and RajCOMP Info Services Ltd. Sign Agreement to Enhance Public Services through Large eMitra Network



EESL and All India Women's Conference Hosted An Awareness Session On The Importance of Energy Efficiency And Renewable Technologies



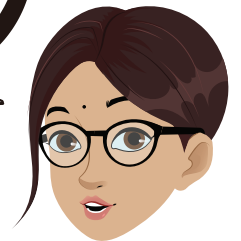


A Day in the Life of Energy Savers



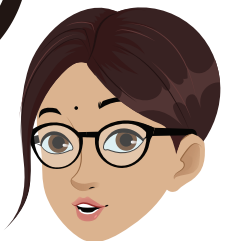
Hey Riya, I noticed you've been talking a lot about energy efficiency lately. Why is it so important?

Great question, Aman! Energy efficiency is all about using less energy to perform the same task. It helps reduce energy waste, lower our utility bills, and, most importantly, it's good for the environment.



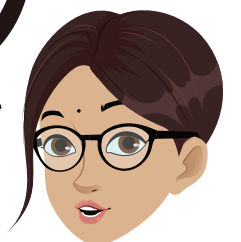
That makes sense. But how can I be more energy-efficient in my daily life?

There are lots of simple things you can do! For starters, make sure to turn off lights when you leave a room. Use energy-efficient LED bulbs, BLDC fans, super-efficient ACs and more.



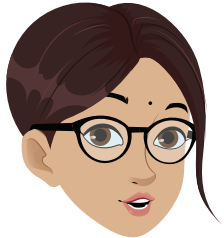
I always forget to turn off the lights. Any other tips?

Absolutely! Unplug appliances when they're not in use. Many devices use energy even when they're turned off. And if you're buying new appliances, look for ones with a high energy star rating.

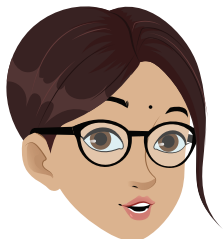


That sounds easy enough. What about at the office? Can we do something here?

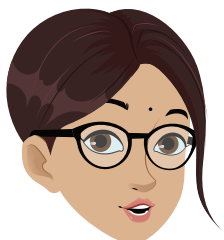
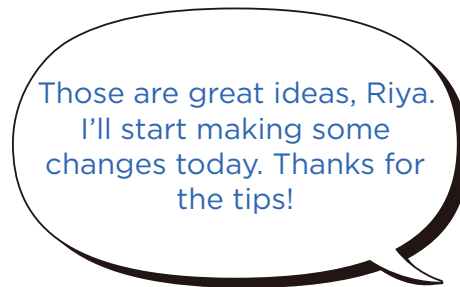




Definitely! We can start by turning off our computers and printers at the end of the day. We could also suggest to the management to switch to energy-efficient appliances.



I will make it easy for you. Go to eeslmart.in. It is one stop destination for all things energy efficiency



No problem, Aman! Every little bit helps. Together, we can make a big difference.





Noteworthy Energy Developments

'Green power surge': Budget allocates ₹1.39 lakh crore to renewable and power sectors

In a significant move to bolster India's green transition, the fiscal 2025 budget has ramped up allocations for renewable energy and power sectors, injecting over ₹1.39 lakh crore into these critical areas. The ministry of new and renewable energy (MNRE) and the ministry of power (MoP) received ₹0.52 lakh crore and ₹0.87 lakh crore respectively, signaling the government's intent to strengthen the energy infrastructure amid rising environmental and economic demands. According to the latest CRISIL M&A report, the budget has notably increased funding for key schemes under the MNRE by 25 per cent from the interim budget. This increase is largely attributed to a 16 per cent rise in allocation to the Indian Renewable Energy Development Agency (IREDA) and the allocation of ₹6,250 crore to the Pradhan Mantri Surya Ghar Muft Bijli Yojana for FY 2025.

Centre to install 5833 new EV charging stations along national highways

The country now has 5,293 electric vehicle (EV) charging stations along the national highways and has set a target of establishing 5,833 more along the highways out of a total of 7,432, the Ministry of Road Transport & Highways said on Wednesday. In a written reply in the Rajya Sabha, Union Minister for Road Transport and Highways, Nitin Gadkari, said a capital subsidy of Rs 800 crore has been provided to three oil marketing companies towards the establishment of 7,432 EV charging stations.

India makes major progress on residential solar rooftop scheme PM Surya Ghar

In the heart of India's bustling, vibrant chaos lies a silent revolution, one that could dramatically alter its energy landscape. PM Surya Ghar scheme, a major plank in the government's strategy on universal access to power with an allocation of ₹75,000 crore, seeks to install solar rooftops on 1 crore households, catalyzing India's shift toward sustainable energy. "PM Surya Ghar is more than a scheme—it's a monumental effort aimed at securing a cleaner, more resilient energy future for India," a senior official close to the implementation of the scheme said.





Noteworthy Energy Developments

ADB approves \$240.5 mn loan for rooftop solar systems in India

The Asian Development Bank (ADB) has approved a loan of USD 240.5 million to finance rooftop solar systems in India, aiding the government's efforts to expand energy access through renewable energy. The ADB announced on Wednesday that this financing will support tranches 2 and 3 of the Multitranche Financing Facility (MFF) Solar Rooftop Investment Program, initially approved by ADB in 2016. In 2023, the program was restructured to focus specifically on deploying residential solar rooftop systems.

India's renewable energy sector to attract investments worth Rs 30.5 lakh cr by 2030: Eco Survey

Mobilization of finance as well as investment on competitive terms and resolution of land acquisition issues are necessary for realising Rs 30.5 lakh crore investment required for meeting the target of having 500GW renewable energy in India by 2030, according to the Economic Survey. The Economic Survey 2023-24 tabled in Parliament on Monday the Renewable Energy (RE) sector is expected to attract investments of about Rs 30.5 lakh crore in India between 2024 and 2030. According to the Survey, this would create significant economic opportunities across the value chain.





ENERGY EFFICIENCY SERVICES LIMITED

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