

DHANALAKSHMI SRINIVASAN ENGINEERING COLLEGE (AUTONOMOUS)



(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

Re-Accredited with 'A' Grade by NAAC , Accredited By TCS,

Re-Accredited by NBA (BME,ECE & EEE)

Perambalur - 621212



Energy Club



ENERGY CLUB

- ✚ Energy Conservation Club mainly focus in Creating awareness regarding the importance and methods of Energy Conservation along with its effective utilization.

The objectives of this club are as follows

- ✚ Energy club aims at Generating & dissemination awareness for judicious and sustainable consumption of energy.
- ✚ To inculcate the habit of energy conservation among students.
- ✚ To provide industrial / field experience regarding the upcoming technologies.
- ✚ To improve outdoor recreational activities.
- ✚ To create awareness about energy saving and usage of green energy.

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PERAMBALUR - 621 212. Tamil Nadu.website : www.dsengg.ac.in**ENERGY CLUB**

ACADEMIC YEAR	DATE	ACTIVITIES
2023-2024	12.09.2023	Drawing Competition on “Green energy”
	27.03.2024	Seminar on Energy conservation and Environmental protection
	28.03.2024	Seminar on EV Technologies
2022-2023	17.07.2022	Inauguration of Energy Conservation club
	05.08.2022	Expert Lecture on " Micro-Grid & Renewable Technologies"
	15.10.2023	Essay writing Competition on “Green energy”
	17.02.2023	Speech competition on “Conservation of Green Energy”
2021-2022	18.08.2021	Inauguration of Energy club
	09.09.2021	“Energy Campaign Programme” in College premises
	10.02.2022	Outreach programme on “Electric Fire and Safety”
2020-2021	26.06.2020	Inauguration of Energy club
	07.09.2020	Technical seminar on “Importance of Energy Conservation”
	24.01.2021	Essay writing on Green energy
	12.03.2021	Drawing competition on conservation of green energy

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TITLE: SEMINAR ON ENERGY CONSERVATION AND ENVIRONMENTAL PROTECTION

DATE: 27.03.2024

VENUE: B - BLOCK 207

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Thiruvananthapuram, Perambalur - 621 212.

NAAC, NBA, ACADEMY, BEME, eVentra, AUTODISK, NSIC

DSEC-ENERGY CLUB
Organizes

SEMINAR ON ENERGY CONSERVATION AND ENVIRONMENTAL PROTECTION


Ms. Jeevithaa R T
IV year EEE

Time: 03.00pm to 04.00pm | Date: 27.03.2024 | Venue: B-207

EVENT COORDINATOR
Mr. M. ASATHAMBI
Assistant Professor/EEE

CONVENOR
Dr. K. ANBARASAN
Dean (Academics)
Dr. N. ARUN KUMAR
HOD / EEE

All are welcome



REPORT:

The Department of EEE, Dhanalakshmi Srinivasan Engineering College has organized seminar on Energy conservation and Environmental Protection” on 27.03.2024. **Dr.D.Shanmugasundaram Principal, Dhanalakshmi Srinivasan Engineering College (A)**, presided over the function. Prof V. Vinothkumar, Staff Advisor of Energy Conservation Club who introduced speaker. Ms. Jeevitha RT Final year EEE students delivered seminar on importance of energy conservation and environmental protection, causes of CO₂ emission. How to control carbon dioxide protection against global warming and also discussed protection of electrical equipment like relay and circuit breaker. Students were actively interacted with the speaker during questionnaire session. Mr. R. Pradeepan final year EEE, Proposed vote of thanks.

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TITLE: SEMINAR ON EV TECHNOLOGIES

DATE: 28.03.2024

VENUE: B - BLOCK 207

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Thursiyar Main Road, Perambalur - 621 212.

NAAC **NBA** **ACADEMY** **INSTITUTIONS ASSOCIATION OF INDIA** **AIMS** **eYantra** **AUTODESK** **NSIC**

DSEC-ENERGY CLUB
Organizes

SEMINAR ON EV TECHNOLOGY'S

Mr. R. Sathish
AP/EEE

Time: 03.00pm to 04.30pm | Date: 28.03.2024 | Venue: Smart class room

EVENT COORDINATOR
Mr. M. ASAITHAMBI
Assistant Professor/EEE

CONVENER
Dr. K. ANBARASAN
Dean (Academics)
Dr. N. ARUN KUMAR
HOD / EEE

All are welcome



REPORT

The Department of EEE, Dhanalakshmi Srinivasan Engineering College (A) Energy club has organized Faculty seminar on “EV Technologies” on 28.03.2024. **Dr. D. Shanmugasundaram, Principal, Dhanalakshmi Srinivasan Engineering College(A)**, presided over the function. Prof. M. Asaithambi, Staff Advisor of Energy Conservation Club who introduced the **speaker**. His speech centred on energy conservation and the importance of renewable energy sources in EV technologies. He discussed about hybrid EV and plug in EV and explain about battery management system and also explain about environmental protection controlling of Carbon di oxide emission. They are being used to improve reliability and resilience of electrical grids, to manage the addition of distributed clean energy resources like wind and solar photovoltaic (PV) generation to reduce fossil fuel emissions, and to provide electricity in areas not served by centralized electrical infrastructure. 100 students actively participated in this session. Students were actively interacted with the speaker during questionnaire session. Mr. Sakthivel of final year EEE, Proposed the vote of thanks.



TITLE: DRAWING COMPETITION ON GREEN ENERGY

DATE: 21.07.23

VENUE: B BLOCK 205



The Department of EEE, Dhanalakshmi Srinivasan Engineering College has conducted an Drawing competition on “**GREEN ENERGY**” on behalf of National Technical Symposium DASELSY 6G on 12.9.2023.. **Dr. K. Elangovan, Principal, Dhanalakshmi Srinivasan Engineering College**, presided over the function. Prof. R. Sathish, Advisor of Energy Conservation Club who introduced the chief guest **Dr. K. Vijayarekha, SASTRA University, Tanjore**. She gave a presidential address on Conservation of Renewable Energy. On behalf of Energy club, drawing competition has been conducted for the students. 30 students actively participated in the drawing competition. Ramakrishnan of Final year EEE won the first prize of drawing competition. Naveen K of Third year EEE, won the second prize. Mr. Krishna of Third year EEE proposed the vote of thanks.

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REPORT ON INAGURATION OF ENERGY CONSERAVTION CLUB ON 17.07.2022



REPORT:

The Department of EEE, Dhanalakshmi Srinivasan Engineering College has inaugurated “**ENERGY CONSERAVTION CLUB**” on 17.07.2022. This club will provide the knowledge about the alternate energy trends and information to the students. **Dr. K. Elangovan, Principal, Dhanalakshmi Srinivasan Engineering College**, presided over the function and insisted the students to utilize this Energy Club effectively on the various advancements in the field of renewable energy in electrical engineering. **Prof. S. Balasubramanian, DEE / Indian Railways** Chief guest of the function who inaugurated the Energy Club and motivated the students to do innovative projects based on renewable energy. Also insisted to develop their practical knowledge to shape themselves according to the needs of the outside world as they are in the period of innovation. Prof. K. Preetha welcomed the gathering and introduced the office bearers of Energy Conservation Club and Mr. M. Kathamuthu, proposed the vote of thanks.

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REPORT OF EXPERT LECTURE ON " MICRO-GRID & RENEWABLE TECHNOLOGIES" ON

05.08.2022



REPORT:

The Department of EEE, Dhanalakshmi Srinivasan Engineering College has organized an expert lecture on “**Micro-Grid & Renewable Technologies**” on 05.08.2022. **Dr. K. Elangovan Principal, Dhanalakshmi Srinivasan Engineering College**, presided over the function. Prof. J. Nagendran, Staff Advisor of Energy Conservation Club who introduced the chief guest **Prof. P. Ganesan Senior Executive Engineer / Neyveli Lignite Corporation**. His speech centred on energy conservation and the importance of renewable energy sources. He emphasised the need to visit the Renewable Energy Sources in the nearby vicinity of the college to get practical knowledge about the energy sources. Micro grids are now emerging from lab benches and pilot demonstration sites into commercial markets, driven by technological improvements, falling costs, a proven track record, and growing recognition of their benefits. They are being used to improve reliability and resilience of electrical grids, to manage the addition of distributed clean energy resources like wind and solar photovoltaic (PV) generation to reduce fossil fuel emissions, and to provide electricity in areas not served by centralized electrical infrastructure. Students were actively interacted with the chief guest during questionnaire session. Ms. Abinaya of final year EEE, Proposed the vote of thanks.

REPORT ON ESSAY WRITING COMPETITION ON GREEN ENERGY ON 15.10.2022



REPORT:

The Department of EEE, Dhanalakshmi Srinivasan Engineering College has conducted an Essay writing competition on “**GREEN ENERGY**” on behalf of National Technical Symposium DASELSY 6G on 15.10.2022. **Dr. K. Elangovan, Principal, Dhanalakshmi Srinivasan Engineering College**, presided over the function. Prof. J. Nagendran, Staff Advisor of Energy Conservation Club who introduced the chief guest **Dr. K. Vijayarekha, SASTRA University, Tanjore**. She gave presidential address on Conservation of Renewable Energy. On behalf of Energy club, Essay writing competition has conducted for the students. 30 students were actively participated on Essay writing competition. Kalyani K, of Final year EEE, won the first prize of essay writing competition. Sathiyaraj G of Third year EEE, won the second prize. Mr. Krishna of Third year EEE proposed the vote of thanks.

REPORT OF SPEECH COMPETITION ON “CONSERVATION OF GREEN ENERGY”



The Department of EEE, Dhanalakshmi Srinivasan Engineering College has conducted an Essay writing competition on “**GREEN ENERGY**” on behalf of National Conference on “Emerging Investigation on Electrical Engineering” on 17.02.2023. **Dr. K. Elangovan, Principal, Dhanalakshmi Srinivasan Engineering College**, presided over the function. Prof. J. Nagendran, Staff Advisor of Energy Conservation Club who introduced the chief guest **Dr. P. Selvan, National Institute of Technology, Trichy**. Delivered presidential address on Conservation of Green Energy. On behalf of Energy club, Speech competition has conducted for the students. 20 students were actively participated on Speech competition. Sabarinathan, of Final year EEE, won the first prize of speech competition. K Pavithra of Final year EEE, won the second prize. Rajeshkumar K of Final year EEE proposed the vote of thanks.

REPORT ON INAGURATION OF ENERGY CONSERAVTION CLUB ON 18.08.2021



The Department of EEE, Dhanalakshmi Srinivasan Engineering College has inaugurated “**ENERGY CONSERAVTION CLUB**” on 18.08.2021. This club will provide the knowledge about the alternate energy trends and information to the students. **Dr. S. Durairaj, Principal, Dhanalakshmi Srinivasan Engineering College**, presided over the function and insisted the students to utilize this Energy Club effectively on the various advancements in the field of renewable energy in electrical engineering. **Prof. V. Malathy, Associate Professor, University College of Engineeirng, Ariyalur** - Chief guest of the function who inaugurated the Energy Club and motivated the students to develop new ideas in renewable energies and to make it as a project for the welfare of people in rural areas. Prof. M. Asaithambi welcomed the gathering and introduced the office bearers of Energy Conservation Club. Students take pledge to save green energy in future. Ms. K. Preetha delivered vote of thanks.



REPORT ON ENERGY CAMPAIGN PROGRAMME ON 09.09.2021



On behalf of Energy Conservation Club, “Energy Campaign programme” was conducted to the students of our college on 09.09.2021. It was started in the A-Block of the college premises. **Dr. S. Durairaj, Principal, Dhanalakshmi Srinivasan Engineering College**, started the Campaign programme by waving the flag. The club members were participated enthusiastically and energetically. They said the importance of conserving the renewable energy and how to harvest the energy. They have pasted the slogans all over the college premises which invokes the importance of conserving green energy. The students were take oath regarding harvesting green energy in safe way and produce the better future. The campaign programme was headed by patron Dr. K. Anbarasan, Head of the Department, Electrical and Electronics Engineering. Finally, Staff Advisor Prof. V. Vinothkumar delivered the vote of thanks.



REPORT ON SPECIAL LECTURE ON ENERGY MANAGEMENT ON 23.03.2022



The Department of EEE, Dhanalakshmi Srinivasan Engineering College has organized an special lecture on “ENERGY MANAGEMENT ”on 23.03.2022. Dr. S. Durairaj, Principal, Dhanalakshmi Srinivasan Engineering College, presided over the function. Dr. K. Anbarasan, Patron of Energy Conservation Club who introduced the chief guest Dr. Ajay D. Vimalraj, Professor, Pondicherry Engineering College, Pondicherry. He delivered the speech on energy industry especially power generation, operation and utilization is playing a greater role in the economic progress of our nation. He motivated the students to create new technologies by invoking renewable energy for the development of nation. Students were actively participated in the special lecture and interacted with the chief guest. Finally, Staff Advisor Prof. M. Asaithambi delivered the vote of thanks.



REPORT ON OUTREACH PROGRAMME ON “ELECTRIC FIRE AND SAFETY” ON 10.02.2022



The Department of EEE, Dhanalakshmi Srinivasan Engineering College has organized an Outreach programme on “Electric Fire and Safety” on behalf of activity of Energy Conservation Club on 10.02.2022. **Dr. S. Durairaj, Principal, Dhanalakshmi Srinivasan Engineering College,** presided over the function. **Dr. K. Anbarasan, Patron of Energy Conservation Club** who introduced the chief guest **Mr. Chandraraju, (Retd. Fire officer), Advisor, Sri Vijaya Fire and Safety, Trichy.** He practically delivered the safety measures to the students while electric fire related issues. Students were actively participated in the practical session of the programme and interacted with the chief guest. Finally, Staff Advisor Prof. M. Asaithambi delivered the vote of thanks.

**REPORT ON INAUGURATION OF ENERGY CONSERAVTION CLUB ON 26.06.2020**

The Department of EEE, Dhanalakshmi Srinivasan Engineering College has inaugurated “**ENERGY CONSERVATION CLUB**” on 26.06.2020. **Dr. S. Durairaj, Principal, Dhanalakshmi Srinivasan Engineering College** presided over the function **Dr. S. Titus, Professor, M.A.M College of Engineering** Chief guest of the function who inaugurated the Energy Club. He summarily narrated his ideas “A major objective of India’s Energy Independence Vision 2030 would be to bring down our dependence on non-renewable sources of energy and increase the use of renewable ones. Apart from the extensive use of solar power, this mission would involve the expansion of wind energy farms. Micro-hydroelectric power units should be set up along streams and small rivers. There should be a thrust on using municipal waste to generate electricity. All thermal power stations should substitute 20 per cent of their annual electricity output with electricity from renewable energy systems. Lastly, all steel plants and heavy industries should be mandated to use their waste heat to generate electricity to meet their own needs. We need to embark on launching a national solar energy policy, which promotes solar energy systems and products manufacturing in the country, and exclusive R&D for nano science and technology for solar energy systems.” Prof. M. Asaithambi introduced the office bearers of Energy Conservation Club and Mr. V. Vinothkumar proposed the vote of thanks.

**TECHNICAL SEMINAR ON “IMPORTANCE OF ENERGY CONSERVATION” CONDUCTED ON 07.09.2020**

A technical seminar on “**Importance of Energy Conservation**” was conducted on 07.09.2020, on behalf of Energy Conservation Club activity. **Dr. S. Durairaj, Principal, Dhanalakshmi Srinivasan Engineering College**, presided over the function, who delivered presidential address he insisted the importance of research in Energy management and Renewable energy and necessitated the need for knowledge dissemination and motivated the audience to gain more knowledge. Dr. K. Anbarasan, Patron of Energy Conservation Club who introduced the chief guest, **Er. Sivakumar, Electrical Manager, TNPL, Perungudi**. He delivered the keynote address on operation and maintenance of wind turbines and importance of wind energy harvesting. He motivated the students to convert their young mind to create the advancement of sustainable energy research and energy efficient technologies. Students were actively participated in the special lecture and interacted with the chief guest. Finally, Staff Advisor Prof.K.Vijayakanth delivered the vote of thanks.



ENERGY CLUB

www.dsengg.ac.in



WHAT IS ENERGY CLUB?

Founded in 2011, the Energy Club is a non-profit organization that aims to promote sustainable energy practices. It is a community of professionals from different industries who share a common goal. The club organizes events, workshops, and training programs to spread awareness and knowledge.

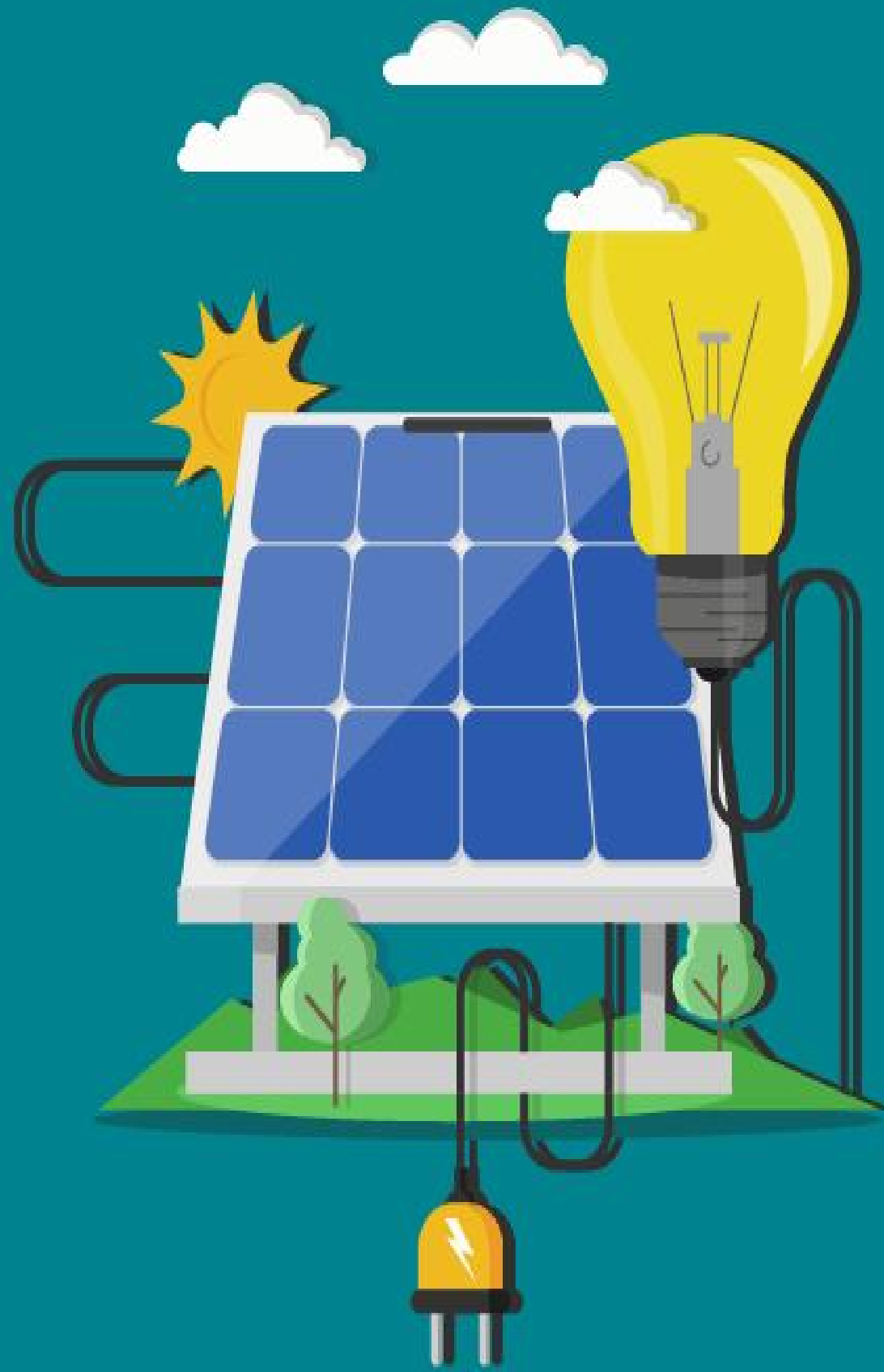
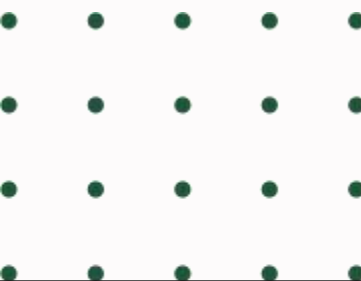
Type of Energy Produces

i) Renewable Energy

Renewable energy is energy derived from natural sources that are replenished at a higher rate than they are consumed. Sunlight and wind, for example, are such sources that are constantly being replenished. Renewable energy sources are plentiful and all around us.

a) Solar Energy

Solar energy is the most abundant of all energy resources and can even be harnessed in cloudy weather. The rate at which solar energy is intercepted by the Earth is about 10,000 times greater than the rate at which humankind consumes energy.





b) Renewable Energy

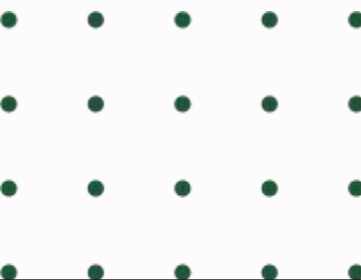
Wind energy harnesses the kinetic energy of moving air by using large wind turbines located on land (onshore) or in sea- or freshwater (offshore). Wind energy has been used for millennia, but onshore and offshore wind energy technologies have evolved over the last few years to maximize the electricity produced - with taller turbines and larger rotor diameters.

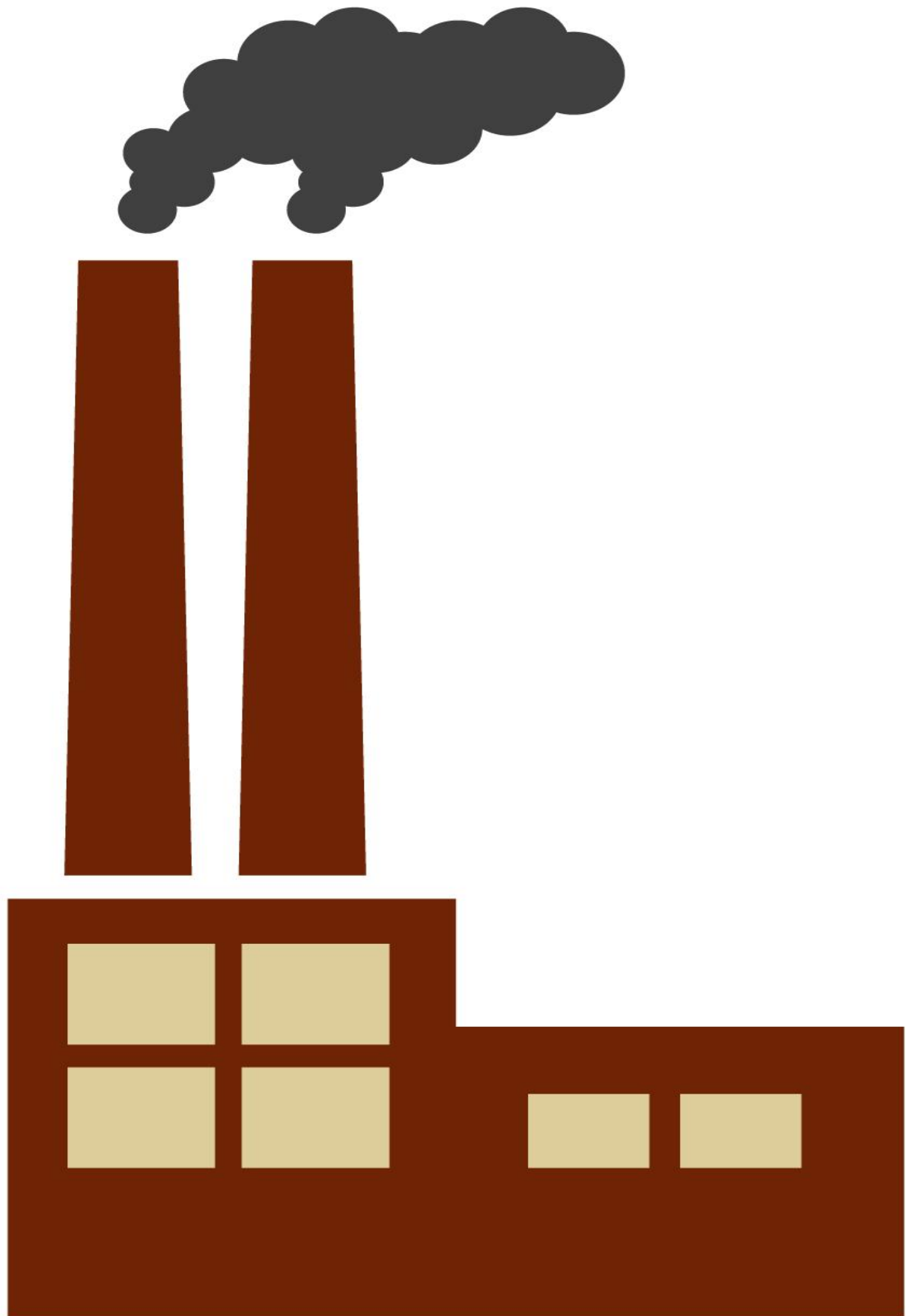


c) Geothermal Energy

Geothermal energy utilizes the accessible thermal energy from the Earth's interior. Heat is extracted from geothermal reservoirs using wells or other means.

Reservoirs that are naturally sufficiently hot and permeable are called hydrothermal reservoirs, whereas reservoirs that are sufficiently hot but that are improved with hydraulic stimulation are called enhanced geothermal systems.





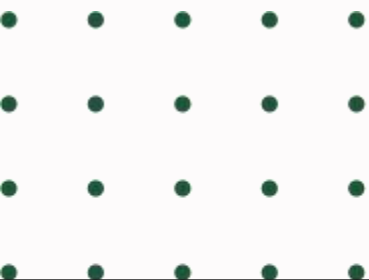
ii) Non - Renewable Energy

This means that nonrenewable resources are limited in supply and cannot be used sustainably. There are four major types of nonrenewable resources: oil, natural gas, coal, and nuclear energy. Oil, natural gas, and coal are collectively called fossil fuels.

a) Fossil fuel

Fossil fuels are formed due to the continuous heating and compressing of organic matter buried beneath the earth's surface. The organic matter mainly comprises of plant and animal remains that have decomposed, heated, and compressed over millions of years to form fossil deposits.

The deposits are extracted through drilling or mining, and they can be in liquid, gas, or solid form. Fossil fuels are highly combustible, making them a rich source of energy.



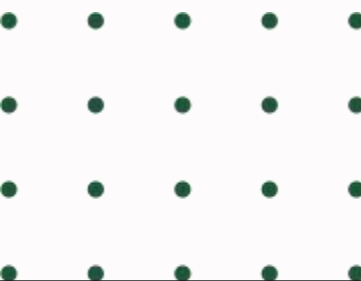


b) Nuclear Energy

Apart from fossil fuels, the other category of non-renewable resources is nuclear fuels. It is primarily obtained through the mining and refining of uranium ore, a naturally occurring radioactive element below the earth's surface. Uranium is found in small quantities, and miners often gather the uranium deposits for refining and purification. The mineral generates power through a process known as nuclear fission, which creates enough pressure to run turbines and generate nuclear power.

c) Natural gas

Natural gas, on the other hand, does not have an unlimited amount. With the lack of this fundamental characteristic, it is not considered a renewable resource. Like coal and oil, natural gas comes from a depleting source that cannot be replenished over time and is thus referred to as a nonrenewable resource.



Effects of the energy

01

The environmental problems directly related to energy production and consumption include air pollution, climate change, water pollution, thermal pollution, and solid waste disposal.

02

Fossil fuels—coal, oil, and natural gas—do substantially more harm than renewable energy sources by most measures, including air and water pollution, damage to public health, wildlife and habitat loss, water use, land use, and global warming emissions.



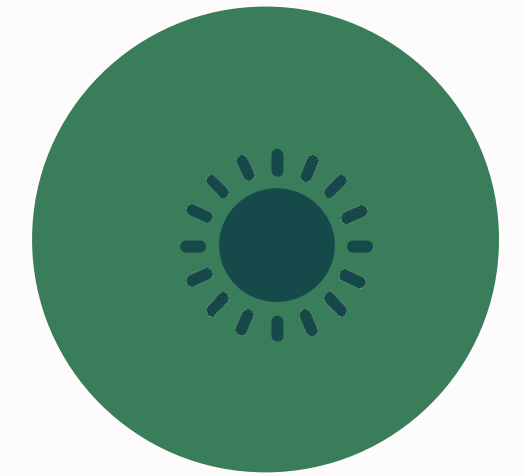
How can we save Energy?

1) Switch off lights and electrical appliances when not using them

2) Switch to energy-saving LED light globes

3) Shut doors and close curtains

4) Lower your thermostat in the winter and raise it in the summer



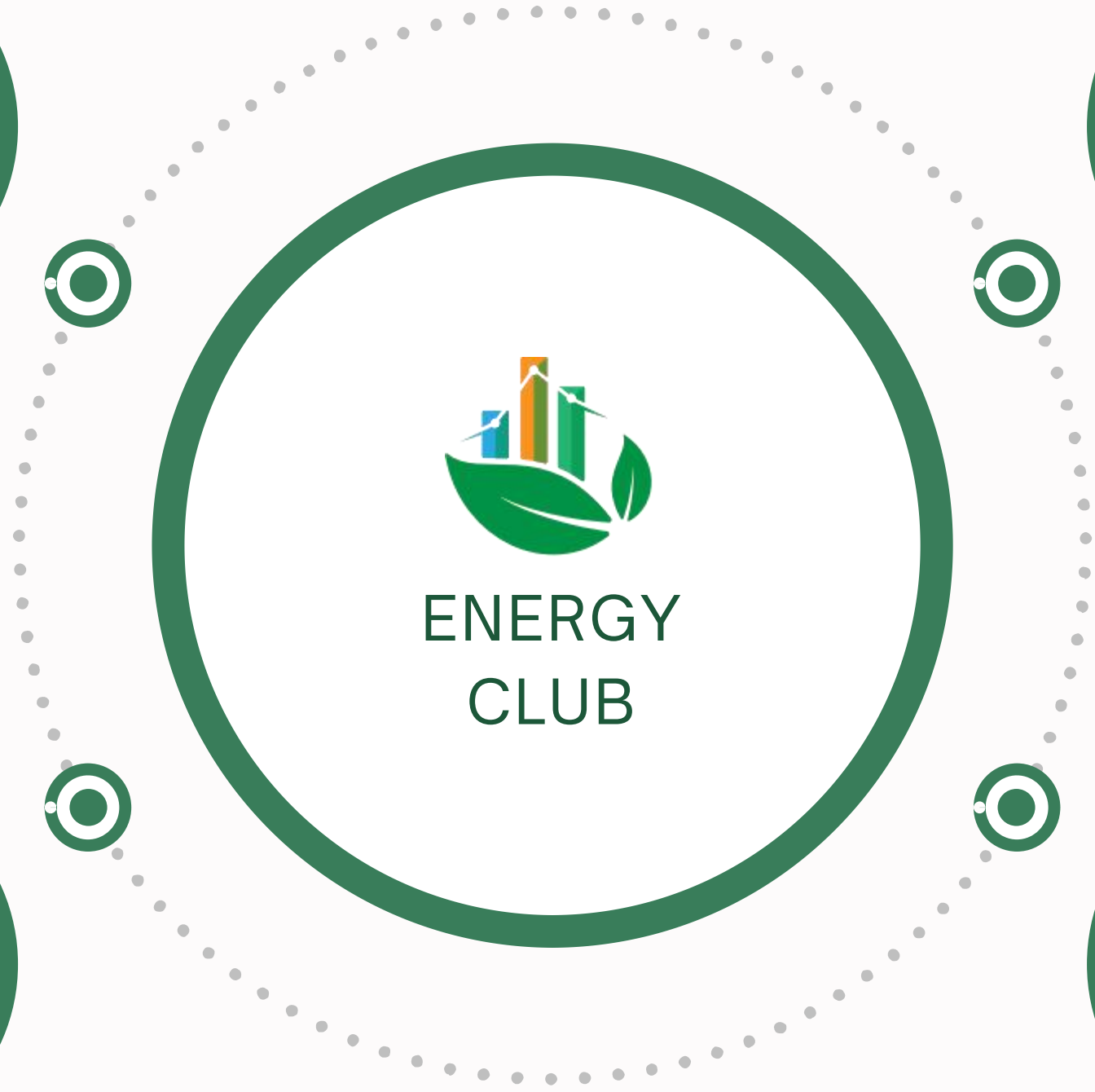
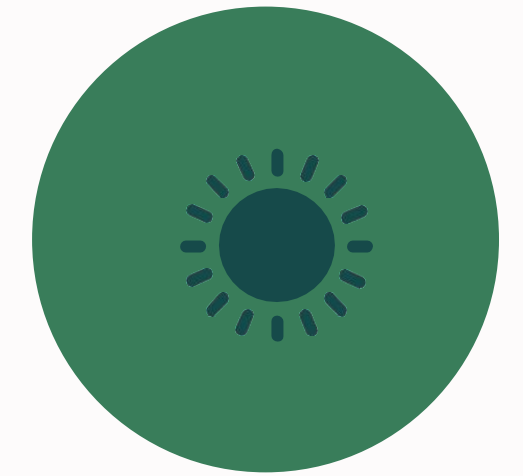
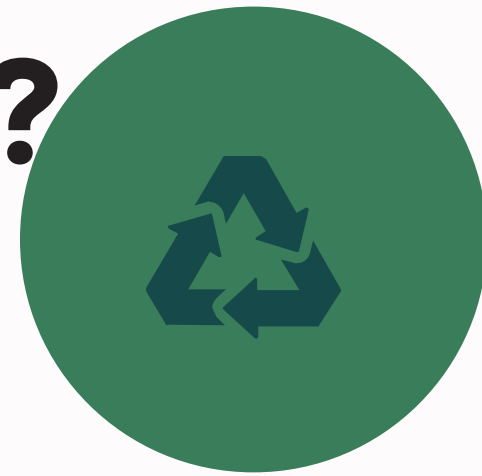
How can we save Energy?

4) Properly insulate your home to prevent drafts and ensure that heated or cooled air doesn't escape

5) Manage your heating and cooling

6) Save energy in kitchen

7) Save money with solar energy



FUTURE DEMAND

The future demand for energy is influenced by a wide range of factors, including population growth, economic development, technological advancements, government policies, and shifts in energy consumption patterns.



Population Growth and Urbanization

The world's population is projected to continue growing, particularly in urban areas.



Economic Development

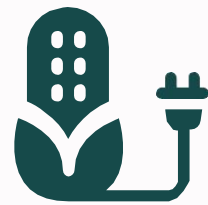
As countries and regions experience economic growth, there is typically a corresponding increase in energy consumption.



Transportation Electrification

The shift towards electric vehicles (EVs) and other forms of electrified transportation will impact energy demand.

FUTURE DEMAND



Digitalization and Connectivity

The growth of digital technologies, including the Internet of Things (IoT) and smart devices, can lead to an increase in energy demand for data centers, communication networks, and the operation of connected devices.



Renewable Energy Adoption

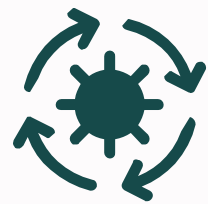
The transition to renewable energy sources, such as solar, wind, and hydropower, is expected to grow as countries seek to reduce greenhouse gas emissions and achieve climate goals.



Energy Storage

The adoption of energy storage technologies, such as batteries, is likely to grow to support renewable energy integration and grid stability.

FUTURE DEMAND



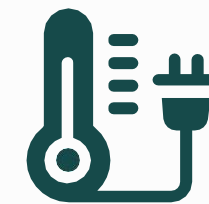
Energy Demand in Developing Countries

As developing countries undergo rapid economic growth, their energy demand is projected to increase significantly.



Government Policies and Climate Goals

National and international policies aimed at addressing climate change and transitioning to cleaner energy sources will play a crucial role in shaping future energy demand patterns.



Geo-Political Factors

Political stability, energy security concerns, and international relations can influence energy demand, especially in regions heavily reliant on specific energy sources.

Future Opportunity

The energy sector is undergoing rapid transformation driven by advancements in technology, sustainability goals, and the need for cleaner and more efficient energy sources.

01

Renewable Energy Development: The growth of renewable energy sources such as solar, wind, hydro, and geothermal presents significant opportunities.

02

Smart Grid and Energy Management: Developing smart grid technologies and energy management systems that optimize energy distribution, consumption, and load balancing is a growing area

03

Electric Vehicle Infrastructure: The rise of electric vehicles presents opportunities in building EV charging infrastructure, including fast-charging networks, home charging solutions, and innovative charging technologies.

04

Decentralized Energy Generation: Distributed energy resources, such as rooftop solar and microgrids, are gaining popularity.



Future Opportunity

05

Hydrogen Economy: The production, storage, and utilization of hydrogen as a clean energy carrier are gaining traction.

Nuclear Energy Innovations: Advanced nuclear reactor designs, such as small modular reactors and advanced molten salt reactors, offer potential for clean and safe nuclear power generation.

06

07

Energy Policy and Regulation: With a growing emphasis on sustainable energy, policy experts and regulators will be needed to shape and implement energy policies that promote clean energy adoption.

Energy Data Analytics and AI: Developing algorithms and AI systems to analyze energy data, predict consumption patterns, and optimize energy usage will play a key role in energy management.

08



Future Opportunity

09

Carbon Capture and Utilization (CCU) and Storage (CCS): Technologies that capture and store carbon emissions, as well as those that turn carbon dioxide into valuable products, offer opportunities to combat climate change.

Energy Efficiency Technology Development: Innovations in energy-efficient appliances, lighting, insulation, and HVAC systems will continue to be sought after.

10

11

Renewable Energy Financing: The expansion of renewable energy projects requires financing. Professionals with expertise in clean energy financing, impact investing, and sustainable finance will be in demand.

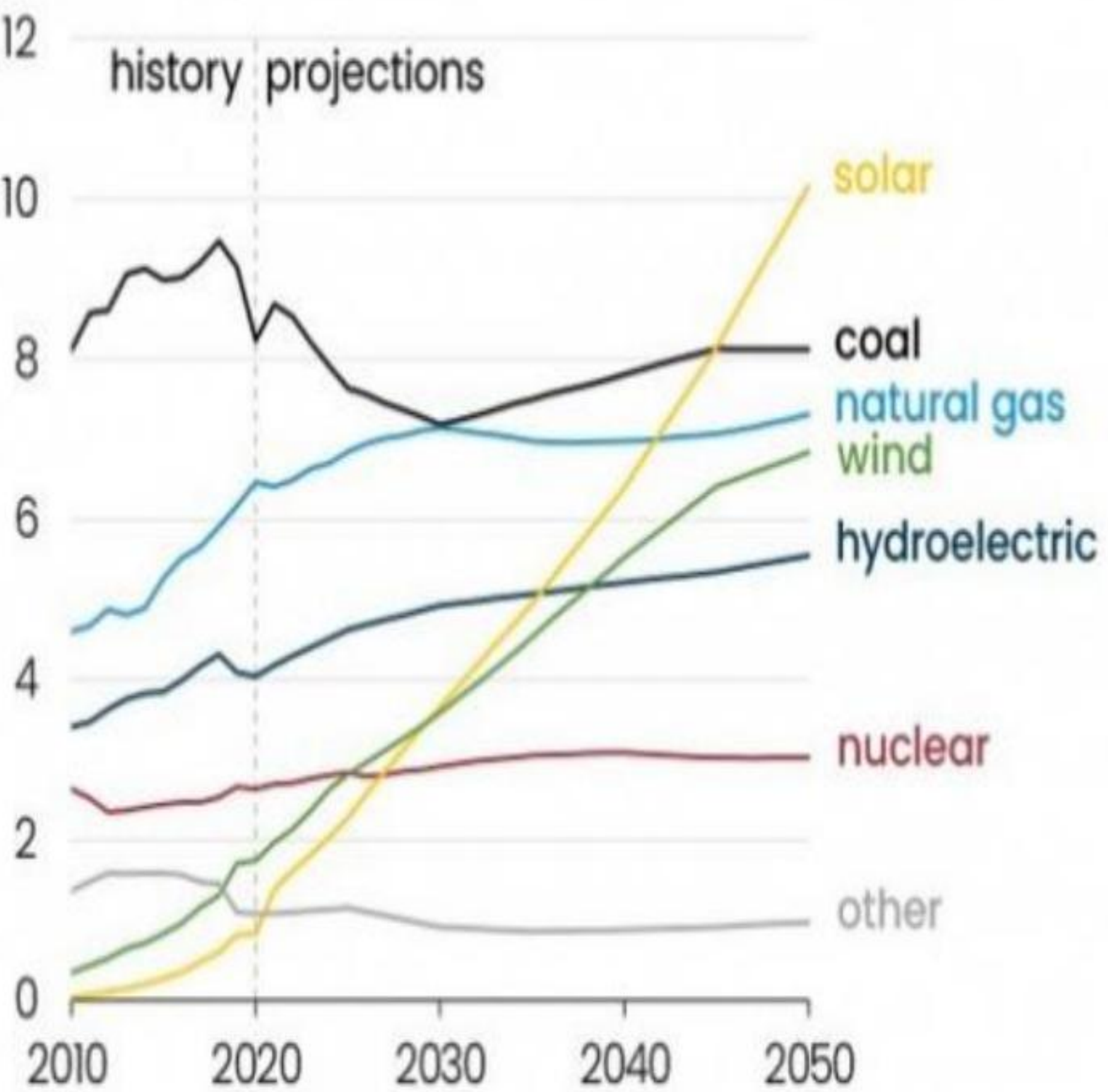
Environmental Consultancy: Organizations need guidance on complying with environmental regulations, reducing carbon footprints, and achieving sustainability targets.

12



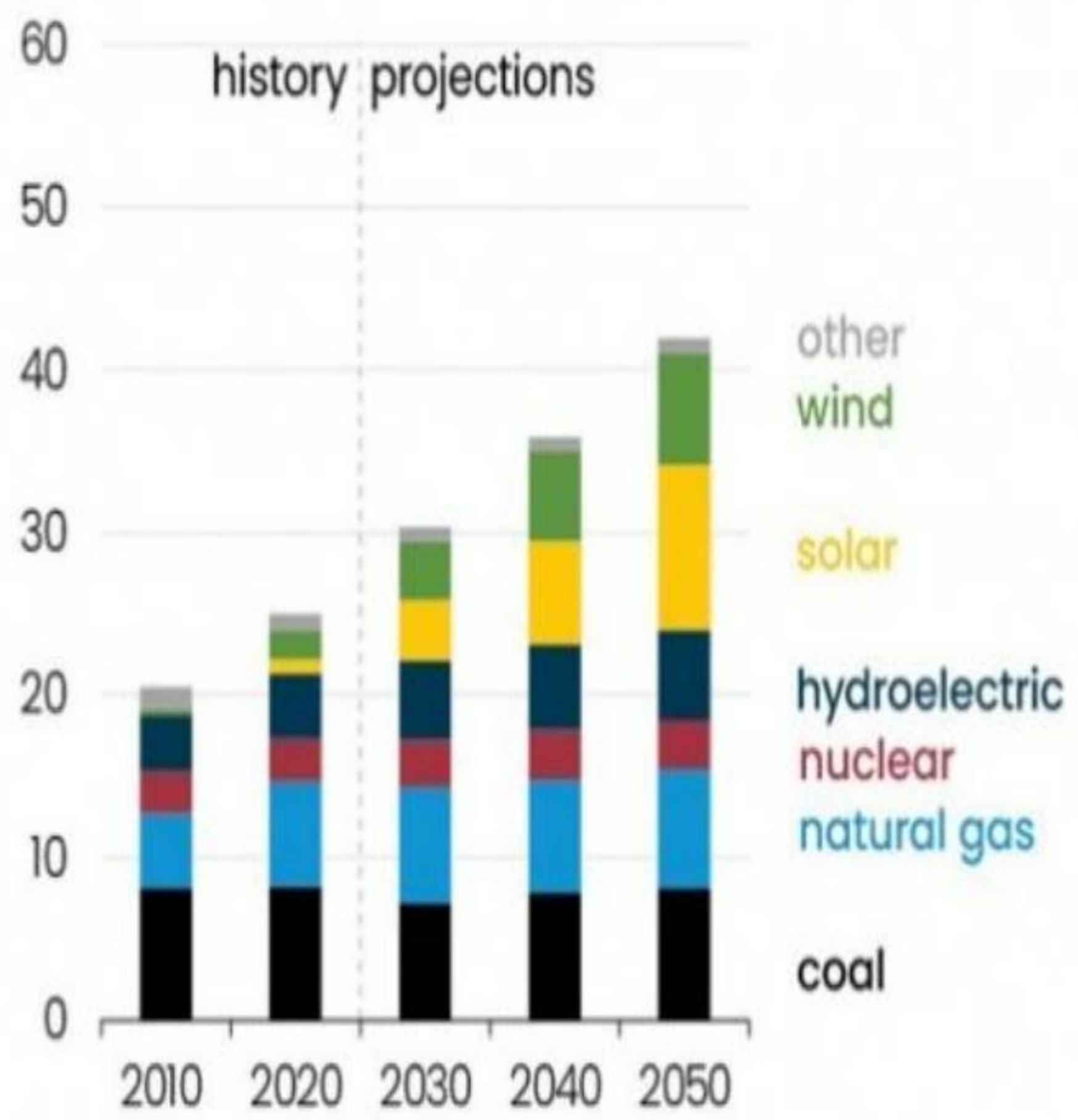
World net electricity generation by source

trillion kilowatthours



World net electricity generation by source

trillion kilowatthours





Conclusion

The Energy Club is a community of professionals working towards a common goal of promoting sustainable energy practices. Through its initiatives, the club has made a significant impact on the community. We encourage everyone to join the club and contribute to a better future.



Produce energy



Protect energy



Save energy




Use energy




ENERGY CLUB

THANK YOU

DSEC ENERGY CLUB

 <https://chat.whatsapp.com/Gy0GIBX7uO67gz3iDhjuB>

 www.dsengg.ac.in

 Thuraiyur Road, Perambalur
Pin code - 621212, Tamil Nadu

