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Kethanakonda (V), Ibrahimpatnam (M), Vijayawada, AMARAVATI - AP - 521456



Date:16-04-2018

To,
The Principal
R K College of Engineering.

Through HOD- E.E.E.

Sub: Request permission to conduct Seminar on "ENERGY EFFICIENCY IN ENERGY CONSERVATION".

Respected Sir,

I request you to kindly grant permission to conduct a Seminar on 19th & 20th April 2018 on "Energy Efficiency in Energy Conservation" with regard to Energy Efficiency in Energy Conservation. This will be a very informative seminar for many students.

Our students really need to understand the Concept and advantages of Energy Efficiency in Energy Conservation.

Thanking you Sir,

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Balakajn.

Yours Sincerely

ASSISTANT PROFESSOR

EEE Dept.

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Date:16-04-2018

To Dr. P.V.R.L.NARASIMHAM, Professor V.R. Siddhartha. Vijayawada

Sir,

Subject: Request invitation for delivering expert lecture Two-day seminar on "Energy Efficiency" on dates 19-04-2018 & 20-04-2018 – Reg.

Respected Sir,

The department of E.E.E., RKCE, Kethanakonda (V), Ibrahimpatnam(M), Andhra Pradesh is organizing a two-day Seminar on Advancement in E.E.E. during 19-04-2018 & 20-04-2018. I am happy to invite you as a Resource Person. I request you to accept the invitation and arrange to send the relevant study material so as to include in the course book.

Thanking You,

Yours Sincerely

B.BALA RAJI HOD-EEE

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TWO-DAY SEMINAR ON

"ENERGY EFFICIENCY' IN ENERGY CONSERVATION"

Organized by

Department of Electrical & Electronics Engineering

RK College of Engineering, Vijayawada

PROGRAMME FLOW - 19-04-2018.

TIME	SPEAKER	TOPIC TO BE DELIVERED
10:00 AM to 10:15 AM	B.KANA KARAO	Welcome speech
10:15 AM to 10:30 AM	Mr. B.BALA RAJU	Introduction about the program
10:30 AM to 11:30 AM	Dr. P.V.R.L.NARASIMHAM Professor & HOD V.R. Siddhartha. Vijayawada.	Finite Resources and Infinite Needs
11:30 AM to 11 :45	TEA BREAK	
11.1E A A A +-	Dr. P.V.R.L.NARASIMHAM Professor & HOD V.R. Siddhartha. Vijayawada.	What is Conservation modeling
01:00 PM to 02:00 PM	LUNCHBREAK	
02:00 PM to	Dr. P.V.R.L.NARASIMHAM Professor & HOD V.R. Siddhartha. Vijayawada.	Energy Conservation & Energy Efficiency

Coordinator: Mr. B.ANAKA RAO

Mr. VEERA BABU

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TWO-DAY SEMINAR ON

"ENERGY EFFICIENCY IN ENERGY CONSERVATION"

Organized by

Department of Electrical & Electronics Engineering

R K College of Engineering, Vijayawada

PROGRAMME FLOW - 20-04-2018

TIME	SPEAKER	TOPIC TO BE DELIVERED
10:30 AM to 11:30 AM	Dr. P.V.R.L.NARASIMHAM Professor & HOD V.R. Siddhartha. Vijayawada.	Agriculture side load side management.
11:30 AM to 11 : 45 AM	TE	FA BREAK
11:45 AM to 01:00 PM	Dr. P.V.R.L.NARASIMHAM Professor & HOD V.R. Siddhartha. Vijayawada.	Energy pyramid.Recent trends
01:00 PM to 02:00 PM	LUN	ICH BREAK
02:00 PM to 03:30 PM	Dr. P.V.R.L.NARASIMHAM Professor & HOD V.R. Siddhartha. Vijayawada.	ApplicationsAdvantages anddisadvantages
03:30 PM to 04:00 PM	Feedback from the participants and v	vote of thanks by Mr. B.VEERABABU

Coordinators: Mr. B. KANAKA RAO

Mr. VEERA BABU

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Date: 20-04-2018

REPORT ON TWO DAY SEMINAR ON "ENERGY EFFICIENCY" IN ENERGY CONSERVATION"

Title: "ENERGY EFFICIENCY' IN ENERGY CONSERVATION"

Expert: Dr. P.V.R.L.NARASIMHAM

Professor

V.R. Siddhartha.

Vijayawada Phone No: 9398499509

Date: 19 & 20 April, 2018

Venue: Room Number F13, Department of Electrical & Electronics Engineering, RKCE

Coordinators: Mr. B.KANAKA RAO

Mr. B. VERA BABU

Organized by: Electrical & Electronics engineering

Total Participants attended: 102

Details of Participants: Students of II, III and IV Year II semester.

Students of II,III and IV Year II semester have attended the seminar on Energy Efficiency' in Energy Conservation with full enthusiasm. Dr. P.V.R.L.NARASIMHAM has elaborately explained about the operation and advantages of Energy Efficiency in Energy Conservation. Also, he explained about the various types and applications of Energy Efficiency' in Energy conservation. The detailed topics are shown in program flow. This seminar was very useful as well as educative for the participants.

Coordinators

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Resource Person Profile



Dr. P. V. R. L. Narasimham, Professor & HOD

Presently Working as Professor & HOD of Electrical & Electronics Engineering Department at VR Sidhardha from APRIL 2011 (Responsibilities: Teaching UG and PG Students of Electrical & Electronics Engineering and performing the works assigned by Principal). Having 29 years of Teaching experience.

MATLAB:

Discover how MATLAB and Simulink are used in research and industrial applications like spacecraft, autonomous cars, and robotic surgeries. In this webinar, we will explore how to simplify complex problems and solve them using engineering principles. Lastly, we will talk about the key megatrends on the future of science and technology and Math Works resources available to help you deeply understand them.

Learning Objectives of MATLAB.

- Overview of MATLAB Grader as an instructional and learning tool
- Illustration of MATLAB Live Scripts as an indispensable tool for coding, problemsolving, and reporting
- Worked example: Vector algebra applied to a Static case it.

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Energy Conservation & Energy Efficiency:

Energy conservation means using less energy and avoiding excessive or wasteful uses Energy efficiency, on the other hand, means using less energy while getting the same results Efficiency is therefore a subset of conservation; one way to conserve energy is to use it more efficiently "Energy Efficiency is Technology-based".

The energy savings from efficiency are easier to predict, measure and specially to sustain, making efficiency easier to treat as an energy resource. In light of a rapidly growing demand for power, higher energy prices and increased awareness of environmental and energy security concerns, the concept of doing more with less offers an approach that seems both feasible and affordable. Governmental agencies, non-profit organizations, utilities and their regulators, manufacturers,

Lawmakers and consumers across the country and internationally are considering energy efficiency and how to achieve higher value for it. Recognize energy efficiency as a high-priority energy resource.

BUREAU OF ENERGY EFFICIENCY

In India, government has passed "Energy Conservation Bill, 2001" for better utilization of energy and conservation of the same. BEE is established on 1st March, 2002. This body keeps watch on energy consumption patterns, develops norms for appliances etc. By this act, it is mandatory for energy intensive sectors to get their "Energy Audit" conducted by accredited energy auditor.

star rating	Performance factor of the pump set
1 star	≥1.00&<1.05
2 star	≥1.05&<1.10
3 star	≥1.10&<1.15
4 star	≥1.15&<1.20
5 star	≥1.20



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How to Solve it

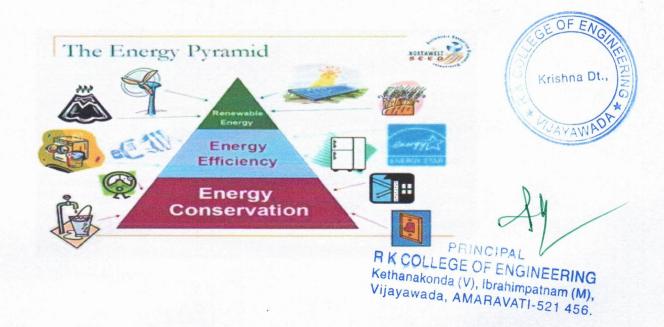
Conservation is an inborn instinct. The instinct has to awakened and honed to be implemented in day today use. Conservation is a Environment Friendly and is implemented through conscious attitude. Energy is the prime mover of all forms sustainable life and it is naturally recycled in nature's cosmic rhythm.

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Benefits of Energy Conservation

- Reduced Emissions
- Reduced Effluent
- Conserves Resources
- Reduced Maintenance





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A report on TwoDay seminar

Finite Resources and Infinite Needs:

Installed power capacity in 1947 is 1,362 MW. Current Generation Capacity as on 23rd NOV. 2017 is 3,31,118 MW. Supply has increased more than 240 Times Demand has outstripped supply by several fold resulting in power shortages (11% peak time load) Government of India taken up Village Electrification on Mission mode targeting completion by May 2018. Out of the 18,452 un-electrified census villages in the country, 13,469 villages have been electrified up to 15th May 2017.



What is Conservation?

Conservation is a deliberate planned guarding and protecting of something felt as precious. Synonyms: Preservation, Salvation, Saving. Here the precious item is Energy and so there is a need to discuss about Energy Conservation and also about Energy Efficiency Limited fuels are available on earth. Demand for energy is increasing day-by-day. It is possible that someday most of fossil fuels will be exhausted. So, there is a need to conserve energy and also switch over to alternate energy sources.

Need for Energy Conservation

Energy is the legacy of the Almighty, gifted to all species of the Earth by nature. This legacy, shared for several millions of years in harmony by all species, was passed on for hundreds of generations and meant to be passed on to future generations. It is their right. But the last 3 generations (100 years) have seen human species consumption surpassing all the previous millions of years consumption. This dangerous trend needs to be arrested and reversed, as its continuation will be disastrous. Money cannot but resources which take millions of the Earth by nature.

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Performance Factor = reactive improvement of the pump efficiency

BIS specified benchmark efficiency

BIS - Bureau of Indian standards

STANDARDS & LABELING SCHEME:

To provide the consumer an informed choice about energy saving, and thereby the cost saving potential of the marketed household and other equipment. This is expected to impact the energy savings in the medium and long run while at the same time it will position domestic industry to compete in such markets where norms for energy efficiency are mandatory.

The scheme was launched on 18th May 2006 and is currently invoked for 12 appliances, i.e. ACs, Tube lights, Frost Free Refrigerators, Distribution Transformers, Induction Motors, Direct Cool Refrigerator, Geysers, Ceiling fans, Colour TVs, Agricultural pump sets, LPG stoves and Washing machine. The first 4 have been notified under mandatory labeling from 7th January, 2010. The STAR rating ranges from 1 to 5 in the increasing order of energy efficiency.

STREET LIGHTING:

In any city street light is one of the major power consuming factors. Most of time, the street lights are glowing during all night along until sunrise and sometimes glows in day time also. Hence large amount of energy and power has been wasted when it is not needed. According to an internal assessment by Andhra Pradesh government, the green house gases (GHG) emission is about 1.9million tones of CO₂ annually. As per Energy Efficient Service Limited (EESL), the estimate energy consumption in Andhra Pradesh public street lighting sector is about 168.9160 million KWh per annum from 4,72,450 conventional lights in 2015.

AGRICULTURE SIDE LOAD SIDE MANAGEMENT:

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India's Agriculture sector consumes approx. 173.2 billion units a year which is equivalent to around 18.45% of total National electricity consumption of India. As per CEA, there are about 20.27 million pump sets installed in agriculture sector. Annual addition of 0.25 - 0.5 million new pump sets is realized in agriculture

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sector. Electricity is free of cost or tariff is very low for agricultural sector and subsidized cost is approximately Rs 65000 cores per year. Locally made pump sets used for irrigation are both inefficient and unreliable, causing massive water waste and higher energy consumption. The inefficient pumps will be replaced with BEE star rated pumps. Therefore, Energy saving potential is more than 30%.

The free or subsidized tariffs provide no tariff to farmers to invest in energy efficient pump sets, however there is a strong incentive for state Govts. to invest in energy efficiency to reduce the subsidy burden. To ensure efficiency in the agriculture sector, EESL is implementing the world's largest Agricultural Demand Side Management programmed (AgDSM). The objective of the Ag DSM programmed is to reduce peak demand, the total energy consumption in the agriculture sector. Under the programmed, inefficient agricultural pump sets are replaced with BEE star-rated energy efficient pump sets. No upfront costs for farmers and utilities EESL recovers investment from DISCOMS through annual energy saving Reduction in power purchase costs, peak loads and load shedding to Discoms. In Andhra Pradesh 1 lakh Ag pump sets replacing is initiated. Energy savings more than 30% is expected.

With a target to distribute 770 million LEDs by March 2019 across 100 cities, the Unnat Jyoti by Affordable LEDs for All (UJALA) was launched in 2015 to become the largest LED distribution program in the world. The program aims to rectify India's high cost of electrification and the increased emissions from inefficient lighting, amidst the backdrop of electricity demand witnessing a 5-fold increase over the coming years. Under the scheme, EESL also distribute 20W LED tube lights and BEE 5-star rated energy efficient fans to the consumers.

EESL IS distributing 20W LED tube lights that are 50% more energy efficient than conventional 40W tube lights and are available for Rs. 220/- per tube, as against the market price of Rs. 400-600. EESL also revolutionized the fan market in India by providing energy efficient fans under the UJALA scheme that come with a BEE 5 Star rating. These ceiling fans are rated 30% more energy efficient than conventional fans and are priced at Rs. 1200/- per fan.

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1% savings Electricity handled by A.P. annually results in savings of 450 Million Units, Rs.150 Crores, 4,20,000 Tons of Coal and about 16,00,000 Tons of emissions. 5% savings can be achieved with simple Attitude Change in implementing simple practices like switching off Lights, saving on Water and other energy forms, preventive and periodic maintenance. 5% Savings In Energy in India would mean about Rs 15000 Cores or more which could mean and building 1000 Km of good quality roads

We, the citizens of this country can do our effort to save energy. We should not waste energy at home. Always switch off lights and fans, T.V. and computers while going out of house or industry or office. Do not open fridge door frequently and long time. While purchasing new products, e.g. refrigerator, geysers, CFL etc., purchase only a five star product rather than cheap and energy waste products. Discuss about energy conservation with our friends and tell others how to reduce energy consumption.

Coordinators

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Date:20/04/2018

Student Attendance for Seminar on "ENERGY EFFICIENCY IN ENERGY CONSERVATION"

	SI.NO	ROLL NUMBER	STUDENT NAME	SIGNATURE
		NOMBER		DAY-I DAY-II
	1	14MC1A0201	ARJA VIJAYALAKSHMI	A. výjagalakom A. výjagalakoh
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	8	14MC1A0209	JANGAM DIVYA	J. Divya J. Divya
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	19	15MC5A0202	BOLIYASETTI ASHOK	B. Aghok B. Whok.
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27	15MC5A0210	KONDRU KRISHNA MOHAN	K. Krishmand	an k. Eschnamolo
28	15MC5A0211	MARISARLA SUDHEER	M. Suelhos	U Sucheer.
29	15MC5A0212	MATTA VENKATESH	Venky. MI	Venky M
30	15MC5A0213	NADAKUDITI NARESH	N. Naxlesh	N. Doseph
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42	16MC5A0203	BOMMIDI NAGA VIJAY KUMAR	B.N.V. Keena	B.V.V. Kumey
43	16MC5A0204	BOYINA GURUPRAKASH	B. Wakash	BTrakash
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54	16MC5A0215	VEERLA SRINU BABU	V. Szino Bako	V.SzinuBaBa
55	16MC1A0201	KORADA SATISH KUMAR	14. Sathish Kom	k Satish kuman
56	16MC1A0202	MANTRALA SIVA KUMAR	M. Sine	- M Sina
57	16MC1A0203	NAGADASARI RAJENDRA	N. Rajendra	N. Rajendra
58	16MC1A0204	NALABOTHULA THIRUPATHAMMA	MGhinypatham	h N. Shizupathaman
59	16MC1A0205	PATTURI MAHESWARI	P. Mahesian	P. Maheadan
60	16MC1A0206	SHAIK NADIL	S. Nadil	S. Nadil
61	16MC1A0207	THIRUVEEDHULA BABYMANOHA	T. Babymando	G. Raby manda
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74	17MC5A0213	HEERAPURAM SHAMAPARVIN	(A) Shamanpan	an. A. Shamanapuan
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Feedback form for Too day seminar on "Energy ediciency Conservation"

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Feedback form for TWo day seminar on "Energy enciency Conservation"

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Feedback form for Two day seminar on "Energy efficiency Conservation"

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Feedback form for Two day seminar on "Energy efficiency Conservation"

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Feedback form for Two day seminar on "Energy efficiency Conservation"

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CO-ORDINATOR

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