



-Advertisers' Feature

SAVE TO REACH THE STARS

The national energy conservation day is celebrated throughout the country on 14th December to highlight the importance of reduction of energy consumption and its use in our day to day life. Energy conservation refers to reducing energy consumption through using less of an energy service. It is an opportunity to reach out to homes, offices and industries with messages to influence their energy-consumption behaviour and to demonstrate the importance of choices made by society regarding energy policies, production, use and the environment. This day serves to spell a sense of urgency on the energy issues involved and to build up awareness towards policies that increase energy efficiency across various sectors and the conservation of natural resources.

Energy is a vital resource for development of any country. Consumption of energy is necessary for running our industries, business, transportation, agriculture and residences. At the same time, energy use is a major source of increase in global warming and has the potential of making the earth uninhabitable. The last few years have brought global energy issues to the fore. Climate change, global warming, extinction of several endangered species, depletion of ozone layer, increase in air pollution are few of the effects from which our environment is suffering. Hence, it is important to move towards clean and green energy resources. Renewable energy is a clean energy resource that has a lesser impact on the health of an environment. All countries including India need to accelerate deployments of renewable energy. Our resources have to be directed towards energy generation through non conventional sources on a large scale.

Nature provides for every man's need, not greed. Renewable energy is generally defined as energy that comes from resources which are naturally replenished on a human timescale such as sunlight, wind, rain, tides, waves, and geo thermal heat. With the advancement of technology, these can be tapped at an optimum level, through different modern equipments, including biogas plants, solar water heaters, solar cookers, street lights, pumps, wind electric generators, water pumping wind mills, biomass gasifiers, and small hydro electric generators.

Energy conservation should be rooted in the behaviour of every human being. The concept of doing more with less has to be ingrained. There are easy and efficient ways to save extra use of energy and playing one's part towards national energy conservation. Make maximum use of sunlight during the day. Windows are a big energy conservation factor. Natural day lighting enhances productivity of workers. What's more, people must be aware that bright light at work can lead to a variety of problems.

There are certain basic rules that we have to abide by. Focus on the concept of reduce, recycle and reuse. Plant trees and saplings. Swaccha Bharat campaign or no, collect and remove garbage, clean roads and parks. We already know we have to look for alternate sources of energy like wind and solar energy. We also know, we should unplug and turn off lights when leaving rooms. Also, whenever possible walk, car pool, or use public transport. To leave a tap dripping is a crime, hence repair leaky faucets. Keep lids on pots and pans while cooking. Keep bulbs clean to ensure maximum light emitted and replace standard bulbs with CFL. Reduce paper wastage and convince people to buy green products.

Going a step or two ahead, it is a good idea to replace desktops with laptops. Moreover, washing clothes with normal room temperature water will help save 90% more energy individually and using unused ice cubes to water plants will help save water. Watering of plants before sunrise and after sunset will avoid unnecessary evaporation, thus saving water and in the process the energy required to generate it. Thus, energy is used to generate water. Sometimes, we tend to ignore certain things. Like it is important to clean the condenser coils of the refrigerator every year as dirty coils consume more energy. Those using electric stoves can switch off a couple of minutes earlier as the hot burner is enough to help finish the cooking. Collectively, the two minutes of saved energy amounts to a lot. Leaving the computer even on sleep mode is waste of energy. In fact leaving anything on sleep mode is waste of energy. So, when not in use learn to switch off the computer and other electrical appliances.

Housing complex can opt for solar powered lights to keep their parks and paths lit. One can use advancement of information and technology in the day to day activities to save electricity by using sensors which detect the absence of human presence and switch off lights. Sensors can be used even for street lights so that when there is no vehicle on the road, street lights dim

themselves thereby reducing the consumption of energy.

Energy can be saved by adopting good habits and techniques and energy efficient technologies. Cooking and lighting are the two major sources of energy consumption. Use of domestic appliances with higher efficiency can reduce ones energy bill. Today's energy wastage is tomorrow's energy shortage.

The Bureau of Energy Efficiency initiated the Standards and Labelling programme for equipment and appliances. The energy efficiency labels are intended to reduce the energy consumption of appliance without diminishing the services it provides to consumers. The consumer should make an informed choice about energy saving and thereby the cost saving potential of the relevant marketed product.

This means, one should replace inefficient appliances with ENERGY STAR models. Look for stars on an appliance model. More stars means more electricity saving. A BEE 5 star rated model in 2015 may be equivalent to BEE 3 / 4 star model in 2016. Each appliance comes with a power savings guide. Look for the BEE STAR labels guidelines. Within that look for the year on the label. Star ratings change periodically when standards improve. So, the next time you are out for some electronic and electronic shopping, do keep these points in mind.

Saving energy is the need of the hour. We need to achieve a future where human progress and commodity go hand in hand with environmental sustainability and energy saving.



We are committed to energy preservation by optimizing our efforts in an efficient way and with reduced carbon footprint. Our motto for energy conservation is "OIL".

- O - Optimize
- I - Innovate
- L - Lead by example

-Mr. Mahesh Vyas Managing Director John Energy Ltd.

Mr. Mahesh Vyas having mechanical engineering background is an epitome of successful first generation gujarati entrepreneur. After gaining rich experience in various aspects of manufacturing & marketing during his stint with a couple of companies, he set up his first enterprise JVM Engineering in 1992 and forayed into the field of manufacturing of water well drilling rigs. Pioneered the development of DTH & Rotary drilling rigs upto 2000 ft. capacity and supplied the same to various government and private sector companies. The water well rigs have also been exported to various countries in Africa.

Sensing the impending boom in Oil & Gas sector in India in the early '90s, successfully diversified initially into the field of Well servicing and then into Work-over operations with rigs manufactured in-house under the flagship company John Energy Ltd. Due to his sharp business acumen, within a span of a decade, the rig count increased to an impressive figure of 14 rigs of capacities ranging from 30 to 160T.

Fueled by its success in the field of Work-over operations, the company branched into provisioning of drilling rig services in 2005. Within a short span of seven years, the company with a rig fleet of 33 rigs (17 Drilling & 16 Work-over rigs) boasts of one of the biggest rig fleets owned by an Indian company & has successfully executed contracts for various national & international operators. Apart from Pan India presence, John Energy has successfully executed campaigns in challenging conditions in various geo markets like Uganda, Kazakhstan and Algeria and poised to enter into Gulf market.

Humble beginning of the company founded in 1982 with a seed capital of Rs. 5000/- has turned into a successful enterprise with more than 1400 employees & turnover of about 600 crores.

Skill Council for Green Jobs, Government of India and Gujarat Energy Research & Management Institute, Government of Gujarat, ink an MoU to foster Solar training across India. The event took place at the Mahatma Mandir Convention Center, Gandhinagar, Gujarat.

In line with the National Policy for Skill Development and Entrepreneurship 2015, that envisages a major role of government, public and private sectors as shared responsibility for skill

development in the country, SCGJ and GERMI intend to work together towards providing a better informed and skilled manpower for the renewable energy sector in general and solar energy through a systematic approach by launching various studies to understand requirement of the sector and strengthen skilling process as per National Skill Qualification Framework. SCGJ has recognized GERMI as a Centre of Excellence to foster development of skilled manpower in the renewable energy sector with special emphasis on solar energy. The MoU was signed by Dr. Praveen Saxena, Chief Executive Officer, SCGJ and Prof. (Dr.) T. Harinarayana, Director General, GERMI. "GERMI is one of the best institutes in the field of Solar Energy and training across India" says Dr. Praveen Saxena, CEO, SCGJ.

"The Government of India has implemented the National Solar Mission, the Skill India Mission and the Make in India Mission. India will require a huge skilled workforce especially of solar technicians by 2022 to realize these Missions and SCGJ and GERMI will work together in this direction" says Dr. Omkar Jari, Principal Research Scientist (Solar), GERMI.

This collaboration of SCGJ and GERMI will focus on understanding and capturing the skill needs for both service users and service providers within the sector and will work on a roadmap for a nation-wide, public and private sector-led collaborative skills initiative. SCGJ is in the process of identifying the skill gaps in the solar energy sector in manufacturing, business development, design, installation and maintenance. "The purpose is to identify

manpower requirement for the sector and the type of skill and training it requires" says Prof. Akash Davda, Scientist E 2 (Solar), GERMI.

"GERMI has undertaken extensive solar-related trainings

from professional workshops to installer (technician) certifications through its various capacity-building programmes. It has substantial experience in conducting trainings; developing standards, syllabus and course content; establishing training centres; training management including monitoring, assessment and feedback. Till date, GERMI has trained more than 1,100 professionals in the solar energy sector", beams Prof. (Dr.) T. Harinarayana, DG, GERMI.



GERMI is one of the fast growing research and management institute to promote all types of energy both renewable and non renewable. Our recent additions are completion of 10MW solar plant in Panipat, Haryana under consultancy, development of new software in oil exploration, releasing data through mobile phone Apps, etc. Our energy and environment audits of the industries will go a long way to make energy and increase efficiency. We are giving advanced training to professionals in solar, oil and coal sectors. We are ambitious to become a global institute.

-Prof. T. Harinarayana, DG, GERMI

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Gujarat Energy Research & Management Institute (GERMI)

1. GERMI is created by Govt. of Gujarat under the aegis of GSPC Ltd. to promote all types of energy and environment and is proactively promoting many solar projects in Gujarat and also outside Gujarat. (Orissa, Jharkhand, Haryana etc)
2. GERMI is recognized as an energy and environment auditor and also recognized by Govt. of India (DSIR) and Income Tax Department
3. GERMI data interpretation centre has innovatively developed a new software for oil exploration and providing advanced training to oil & coal industry geoscientists
4. GERMI provides R&D based G&G analysis for finding more oil and presently doing a major project on algae bio-fuel supported by CCD, Govt. of Gujarat
5. GERMI has completed 15 environmental and energy audits and has introduced E-course in Environmental Engineering and provided consultancy to more than 60 industry units in the area of environment management system
6. GERMI has received many recognitions, especially a national award from Govt. of India (MNRE) along with EPD & GEDA (GoG) for promoting solar rooftop program
7. GERMI has so far trained more than 1000 participants in India mainly in Solar and also in Petroleum and Environment sectors and introduced national programme-NCP for solar technicians
8. GERMI has recently signed MoU with National Skill Development Council, Govt. of India to become Centre of Excellence in Western region of India

For more details: www.germi.org, information@germi.org, 079-23275361

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John Energy Limited, an established leader in providing Drilling and Workover Rig Services in India is now an emerging leader in other frontier Oil Markets. The company has been awarded E&P business worldwide on achieving their Oil Field Exploration and Development Programs. Today, John Energy is a leading rig rigging & has earned the company the accolade of being a preferred partner of E&P giants in both India and abroad. The company's objective is to improve its position and performance in a safe and environmentally friendly manner.

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Look for star Label on an appliance model.

More Star, More Saving

How to read THE BEE STAR LABEL?

LOOK FOR "NUMBER OF STARS" ON THE LABEL MORE STAR MORE SAVING

LOOK FOR THE LABEL PERIOD FOR "VALIDITY" As "Star Rating" changes periodically when standards are upgraded.

Look for the Symbol of BEE on the Label

ELECTRICITY CONSUMPTION

465*

UNITS PER YEAR

Label Period : 01st Jan 2015 to 31st Dec. 2016

Appliance Type	: XX
Brand	: ABC
Model Year	: ABC2016
Type	: XX
Gross Volume	: XX
Storage Volume	: XX

*Under test conditions. When tested in accordance with IS 1474. Actual electricity consumption will depend on how the appliance being used.

GEDA
GUJARAT ENERGY DEVELOPMENT AGENCY
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