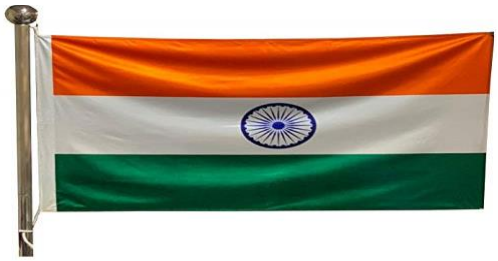
# SPE News Letter

SPE(I), Vadodara Chapter
January, 2023 Issue: 1/2023



## HAPPY MAKARSANKRATI & REPUBLIC DAY


## CELEBRATIONS OF POWER DAY & ENERGY CONSERVATION DAYS

**Society of Power Engineers (India)**
**Vadodara Chapter (Estd. 1996)**
**FF-48, Avishkar Complex, Near Vidyut Nagar Colony,**
**Old Padra Road, Vadodara – 390 007**
**e-mails / web / Mob**
spevadodara01@rediffmail.com & social.spevadodara@gmail.com
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Facebook Whatsapp LinkedIn Instagram Telegram

## OFFICE BEARERS & EXECUTIVE COMMITTEE MEMBERS FOR 2022-23

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Dr. AJ Chavda

FROM THE CHAIRMAN' S DESK

## Dear Readers,

I am happy to present the first SPE NEWS Letter of the year 2023 and wish all the readers a very happy, propspe-rous and energetic New Year. I also thank all the members for the support extended to us last year.

During the last few decades, many eye-opening disasters took place in the form of floods, storms, heat waves, droughts, wildfires, melting glaciers, rising sea levels, warming of oceans, etc.

Experts believe that these powerful meteo-rological events are the effects of climate change causing devastating impacts on our planet and this serves as an urgent notice to all governments to pay immediate attention to climate change, mainly the concentration of greenhouse gases which is increasing rapidly causing the rise of Earth's temperature. The countries are working on climate action plans as set out in the Paris Agreement and cutting emissions to achieve net zero by the year 2050 and limit global warming to 1.5°C.

The 27th Conference on climate action, COP27 just concluded in November 2022 in Egypt is built on the commitment of COP26 to urgently reduce greenhouse gas emissions. The countries have specified the steps they will take to reduce the use of fossil fuel and increase the share of renewable energy for all their energy needs, more particularly power, transport, steel, construction, etc. One of the most important segments discussed in COP27 was the transport sector where collective efforts are needed to phase out gasoline-driven cars and vehicles by deploying electrical vehicles (EVs).

The level of air pollution in our country is very alarming, more than 25 cities in India are among the 100 most polluted cities in the world and the transport sector is a significant Contributor to it. which accounts for 13.5% of India's energy-related $CO_2$ emissions.

It is imperative now that air pollution from transport be minimized. Electric mobility is the primary tool to reduce carbon from this source of emission. Our government is very keen to promote EVs as a green mobility option. For the last four-five years we have seen the accelerated deployment of EVs due to the fast adoption of technology and decreasing cost of batteries. There is a significant increase in the manufacturers of EVs and batteries with large volumes in India, thanks to the Make in India policy of the government. EV manu-facturing can afford job creation, entrepre-neurship, and growth of MSMEs in the country. The government of India has announced the scheme, "Fast Adoption and Manufacturing of Hybrid and Electrical Vehicles (FAME 2)" to boost electrical mobility and increase the number of EVs. Attractive subsidies and incentives are offered by the government to make domestically manufactured EVs cheaper for the end user.

The State governments of India are taking several initiatives to promote and adopt electric vehicles and most of them have announced state policies incentivizing and facilitating the use and manufacturing of EVs, batteries, and other essential components.

Gujarat government has announced the 'Gujarat Electric Vehicle Policy 2021 which, has been designed to see at least two lakh electric vehicles on the state roads by 2025. Subsidies ranging from 20,000 to 1,50,000 are offered on the purchase of EVs under this policy to encourage people to turn to EVs.

Charging station infrastructure is an essential requirement for the success of this scheme and the government has offered a 25% capital subsidy on machinery and equipment used. Several private and public entities are setting up charging stations in various locations across India. The charging infrastructure is also intended to be linked to renewable energy. Thus, EVs will be (on page-4)

EDITORIAL

## Change is a Way of Life

**Dear Readers,**

Recently SPE(I) Vadodara organized a lecture on the topic of **"Change Management** by **Prof. AK Singh**, Life Fellow and former Vice-Chairman of Vadodara Chapter. I would like to take this message further. It is human nature to resist or suspect any change which can be Social, Political, Financial, Cultural, an Academic or Legal. The change normally comes through the situation which can be local or global. The change can be natural or enforced. Social changes normally occur due to education and stepping out of country by any individual or a group. Political changes normally happen due to forcing the population on gun point or through a mandate. Financial changes occur due to internal economy or international forces. Cultural changes are very slow and normally happen due to migration. Academic changes happen due to the requirement of the job and business. Changes in law are mostly dependent upon social structure of the population/society.

The initial resistance to the change fad away with the time, if the change really means betterment of people. The changes made at gun point take longer time to get eliminated.

There are large number of examples of resistance to change. In our country, when first railway train was introduced between Victoria Terminus (CST) and Thane in Mumbai in the year 1853, there was an opposition for the reason of damage to social structure. The change made by GoI to open trade & business policy was resisted on the pretext of local un-employment and invasion by inter-national traders and business houses. The change in agriculture sector (Hybrid) was resisted on the pretext of poor quality and danger to human body. The present Government is also facing resistance for many reforms and changes. Some of the oppositions are politically motivated.

When computers were introduced, there were hues & cries of unemployment. The construction of Narmada Dam in Gujarat (Sardar Sarovar) is a classic example of resistance which deprived the nation of many developments for more than 30 years. This resistance is believed to have been originated outside the country and some insiders became party to it. It is heartening to note that for last 25 years there have been drastic technological changes in the country and the world. The most important among them are communication system, computer technology, software, AI & iOT development. However, it is heartrending to note that there has been an advancement in weapons and threat to whole world from terrorism and cybercrimes. While the positive changes have been acclaimed by everyone, the mankind is also paying price for such advancement.

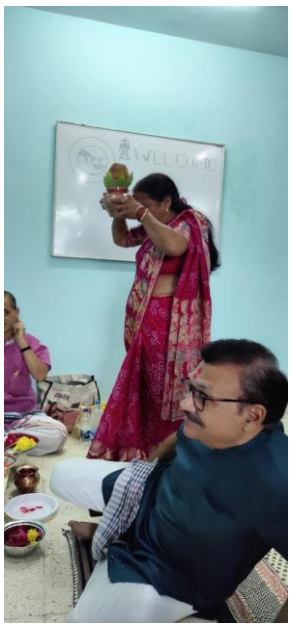
In most of the cases, changes are meant for the benefit of mankind. All the discoveries and inventions are testimony to this.

Sometimes, political changes come at a big price. The India-Pakistan partition, Afghanistan Taliban takeover and present Russia-Ukraine war, are the classic examples.

Change in governing head of an institution or government is also vital. However, abrupt changes make the institution very weak. On the other hand, someone heading for years & years together will ruin the institution due to authoritarian attitude and development of personal interests. If the leader is able to take the mass with him with his selfless services without any personal interest, the institution /country will be benefitted. However, there should always be a second rank for succession. It is the duty of incumbent leader to develop a cadre who would either succeed him or become natural successor. SPE(I) Vadodara Chapter is a unique example where the governance is in most democratic way. The office bearers voluntarily step down and create a space for new faces. (**on page-4**)

## CHAPTER'S ACTIVITIES

➢ On **03 Oct 2022** the **Chapter** organized ***Satyanarayan Pooja*** **a**s a part of celebration of Foundation Day. The pooja was performed at the Office of SPE (I), Vadodara Chapter. About Sixty Members and their spouse attended pooja. The members and their family availed Prasad and greeted each other. The pooja was performed by **Er. Umesh Parikh**, Executive Member and his wife **Mrs. Jigishaben**.



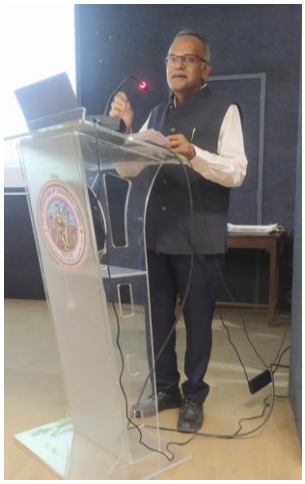
Er. Umesh Parikh and his wife Mrs. Jigishaben performing Pooja

➢ On **10 Nov 2022** the **Chapter** celebrated the **"Power Day"** by organizing evening lecture on **"Role of PGCIL in the Development of Power Sector in India"** jointly with **IE(I),** Vadodara to commemorate establishment of first Hydro Electric Power House in Sindrapang (near Darjeeling ) on 10 Nov 1897. The speaker, **Er. TR Krishna Kumar,** ED, Western Region-II, PGCIL, Vadodara talked on the topic. He gave information about various latest technologies being used in PGCIL such as use of Robot in Substation Maintenance, Smart Grid, Centre of Excellence in Cyber Security etc. He also informed about the State of Art Maintenance and Monitoring practices adopted in PGCIL. This includes Application Based Line Patrolling, Application Based Condition Monitoring of Substation & Line, Aerial Patrolling, Remote Operation of Substation etc. PGCIL have installed more than 500 EHV substations (220kV, 400kV and 765kV) and thousands of circuit kilo-meters of EHV Transmission Lines. PGCIL is also having International Power Line Connections with Bangladesh, Bhutan, Myamnar, Nepal, Sri Lanka, etc.

Initially, **Er. GV Akre**, Chairman, informed about the activities of the Chapter. **Er. Ambikesh Padhya**, Hon. Chairman, IE (I) briefed about the activities of Local Centre. **Er. YV Joshi**, Secretary introduced the speaker. The Speaker was also felicitated by representative of **M/s Yash Engineers**, an Institutional Member of the Chapter.

The vote of thanks was presented by **Er. SM Takalkar,** Patron.

About **100** members attended the event



**Er. TR Krishna Kumar** delivering lecture

➢On **10 Nov 2022, Chapter** celebrated **"Energy Conservation Day"** by organizing a presentation on **"Refrigerator & Air Conditioner Appliances Test Methods & Energy Efficiency Compliance in India".**

The speaker was **Er. SK Nayak**, MD, 3S Energy Care & Consulting Services, Vadodara and Life Member of SPE (I).

In the presentation, he covered the following:

- Different star ratings and respective annual Energy Consumption.
- Difference between DC and FF model of AC.

- Temperature reference of different compartments of Refrigerator.
- Measuring instruments and test methods.
- Performance of Five Star in peak summer.
- Testing facilities for AC & Refrigerator.
- List of appliances covered in S&L programme in India.
- Energy Standard and Label in India.

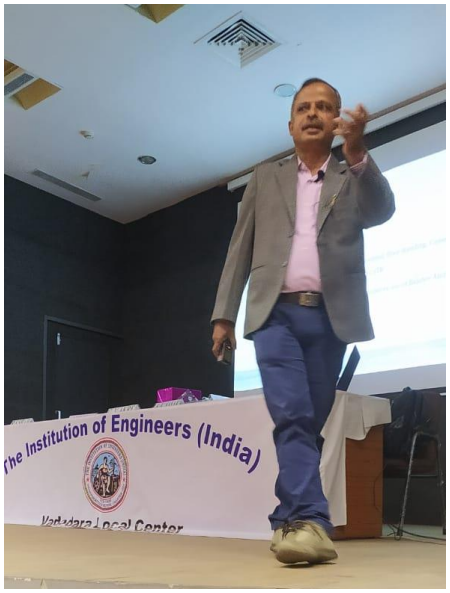
In the beginning **Er, PA Shah**, ACM briefed about why **Power Day** is celebrated on 10th November by the Country as well as by SPE(I), Vadodara Chapter. **Er. GV Akre**, Chairman, SPE(I) informed about the activities of the Chapter. He specifically mentioned the name of late **Er. Nalinbhai Bhatt** (the then Chairman of GEB) for his valued contribution in propagating the Energy Conservation measures in the State of Gujarat by taking the services of SPE (I), Vadodara Chapter. **Er. Keyur Thakkar,** Hon. Secretary, IE (I) briefed about the activities of Local Centre. **Er, PA Shah**, ACM introduced the speaker.

Members were surprised to note that Star rating is given with a test performed under NO-LOAD condition and that Five Star appliances perform equivalent to One Star rating with FULL LOAD condition. He advocated to keep the temperature setting of AC at $25^0$ C, which will give substantial Energy Saving.

The certificate for taking faculty was presented by IE (I) Vadodara Local Centre to Er. Nayak.

The vote of thanks was presented by **Er. YV Joshi**, Secretary SPE (I), Vadodara Chapter.

Ab




**Er. SK Nayak** making presentation

**Er. YV Joshi**

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**Chairman's Desk** (contd. from page-1)
powered by clean energy reducing the environmental impact.

Hydrogen is considered to be a future source of renewable energy and the government is planning to run public buses and heavy-duty tractor-trailers and other transport vehicles traveling long distances, using hydrogen fuel cells. The railway minister has announced recently that hydrogen-powered trains will run in the country and the first train is expected to run by December 2023.

If we scale back a decade, we can see that EVs were nowhere near today's development. Mass adoption of EVs and rapid progress in renewable energy sources with decarbonizing policies and availability of funds will be able to achieve the target for air quality benefiting the public health in India.

The Society of Power Engineers (I), Vadodara Chapter is keen on spreading awareness and knowledge about the technology and opportunities available in EVs and renewable energy sectors including hydrogen, by organizing seminars and conferences during the coming years.

Thank you,

**Er. GV Akre**

**Editorial** (contd. from page-2)
Even though there are elections, the senior members see to it that new faces are included and gradually groomed to head the organization. This particular aspect is the key to the development of the Chapter.

**Best Wishes to all the readers for 2023**

**SM Takalkar**
Editor

## Sector Updates

### Status of Aggregate Technical & Commercial (AT&C) Loss

The AT&C Loss is one of the key indicators of DISCOM's performance. The losses have direct impact on the cash flow of DISCOMs and further worsen their financial position. High losses force the DISCOMs to supply costly electricity to consumers. Reduction in AT&C losses improves the finances of the utilities, which will enable them to maintain the system better and buy power as per requirements; benefitting the consumers.

The preliminary analysis of data for FY-2022 of 56 DISCOMs contributing to more than 96% of input energy, indicates that the AT&C losses of DISCOMs have declined to ~17% in FY 2022 from ~22% in FY-2021.

**Benefits of UJALA**

Over 36.86 Crore LED bulbs., 72.18 Lakh LED Tube lights and 23.59 Lakh Energy Efficient fans have been distributed by EESL across India so far. This has resulted in an estimated annual energy savings of 48.39 Billion units per year. With avoided peak demand of 9788 MW, and Green House Gas emission reduction of 39.30 Million Tons $CO_2$.The estimated annual monetary savings of INR 19,332 Crores in Consumer electricity bills.

### India's Rank in the World in terms of Electricity Consumption

India's per capita electricity consumption was 1,255kWh in 2021-22, which is around one-third of the global average of per capita electricity consumption.

**Steps taken to promote Renewable Power in the country:**

(i) Waiver of Inter State Transmission System (ISTS) charges for inter-State sale of solar and wind power for projects to be commissioned by 30th June 2025.

(ii) Declaration of a trajectory for Renewable Purchase Obligation (RPO) up to the year 2029-30.

(iii) Setting up of Ultra Mega Renewable Energy Parks to provide land and transmission to RE developers for installation of RE projects at large scale.

Schemes such as Pradhan Mantri Kisan Urja Suraksha evam Utthaan Mahabhiyan (PM-KUSUM), Solar Rooftop Phase-II, 12,000 Mega Watt (MW) Central Public Sector Undertaking (CPSU) Scheme Phase-II etc.

(iv) Notification of Promoting Renewable Energy through Green Energy Open Access Rules 2022.

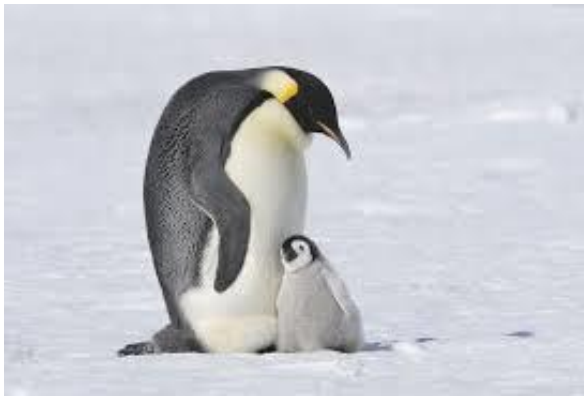
(v) Laying of new transmission lines and creating new sub-station capacity under the Green Energy Corridor Scheme for evacuation of renewable power.

(vi) Standard Bidding Guidelines for tariff based competitive bidding process for procurement of Power from Grid Connected Solar Photovoltaic (PV) and Wind Projects.

(vii) Launch of Green Term Ahead Market (GTAM) to facilitate sale of Renewable Energy Power through exchanges.

(viii) Permitting Foreign Direct Investment (FDI) up to 100% under the automatic route.

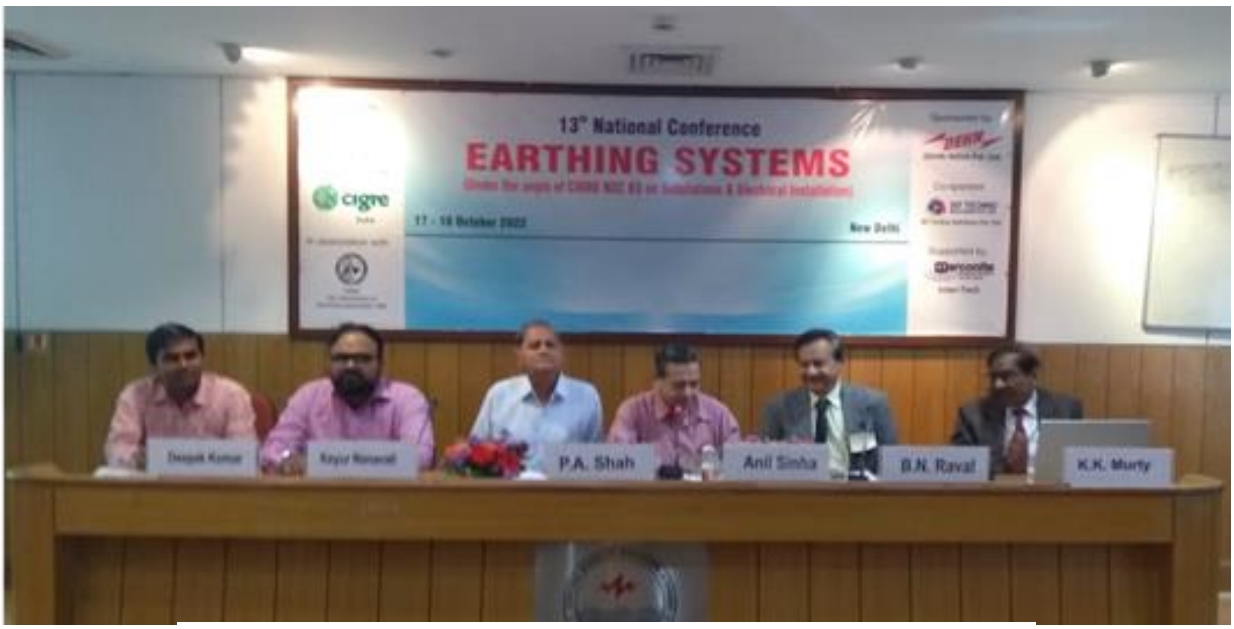
*(Compilation by: **Er. Umesh Parikh**)*



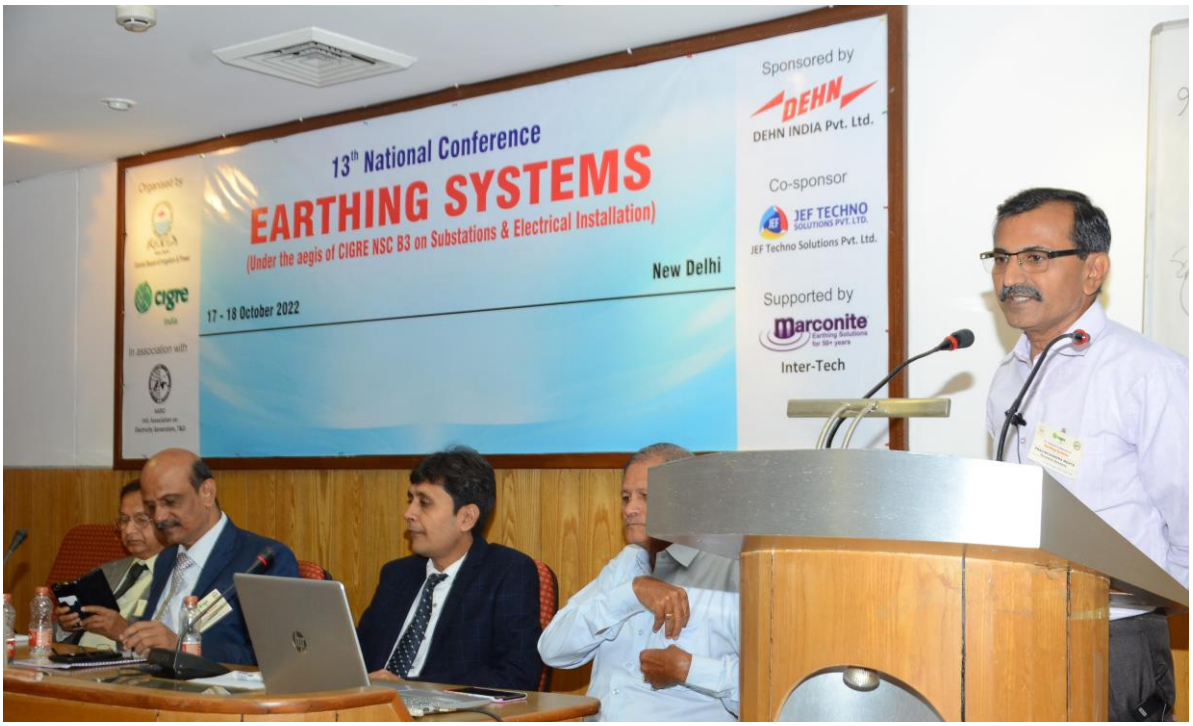
## MEMBERS IN NEWS

Central Board of Irrigation and Power New Delhi organized 13th National Conference on Earthing Systems under the agies of CIGRE NSC B3 – Substation and Electrical Installation during 17-18 Oct-2022 at New Delhi, in which, Life Members of SPE (I), Vadodara Chapter have presented papers.:

1) Er. PA Shah – Earthing in Substation
2) Er. BN Raval – Case Studies
3) Er. HR Karandikar – Earthing in Street Lights
4) Er. PB Mehta – Effective Earthing system and Ground fault behavior.
5) Er. Keyur Nanavati – Various types of Earth Electrodes and enhancement material
6) Er. Nihar Raj – Improving transient performance of Transmission Lines




**Er. Keyur Nanavati, Er. PA Shah & Er. BN Raval on Dais in the Conference.**




Er. PB Mehta presenting paper

## FATHER OF ENERGY EFFICIENCY

**Arthur H. Rosenfeld**, a physicist who became widely known as the father of energy efficiency for championing energy-saving requirements for appliances and buildings, at the age of 90 years.

His work, embraced at first in California under Gov. Jerry Brown, gained national attention and helped lay the foundation for federal energy-efficiency rules that are in place today.

Dr. Rosenfeld's awakening to energy efficiency came in 1973, when the Arab oil embargo caused energy prices to soar and long lines at gas pumps.

One Friday night in November 1973, vexed at Americans' tendency to waste huge amounts of energy even at the height of the crisis, Dr. Rosenfeld decided to turn out the lights in all 20 offices on his laboratory's floor. He had always turned off his own lights. But most of his colleagues did not switch off lights even when leaving for the weekend.

Dr. Rosenfeld calculated the amount of oil-equivalent energy wasted, and searched behind cabinets, bookcases and posters for the switches.

"After 20 minutes of uncovering light switches (and saving 100 gallons for the weekend), it was decided that UC Berkeley and its Radiation Laboratory should do something about conservation," he wrote in a short autobiography posted on the California Energy Commission website.

Having travelled to physics laboratories abroad, Dr. Rosenfeld knew that Europeans used far less energy per unit of economic output than Americans did yet maintained similar living standards. Surely, he reasoned, the United States could cut its energy use, too.

In 1975, he created the Energy Efficient Buildings Program (later renamed the Centre for Building Science) at Lawrence Berkeley National Laboratory and set about studying how making appliances like refrigerators and air-conditioners more efficient could cut energy use significantly and save billions of dollars. (One by-product of the lab's research was the introduction of energy-efficient compact fluorescent lamps.)

Dr. Rosenfeld's ideas caught the ears of powerful people, including Governor Brown, then in his first tenure in that office. (He was elected again in 2010.) Dr. Rosenfeld shared a dinner table with Mr. Brown at a faculty club event at Berkeley in the mid-1970s, and the two discussed a proposed nuclear plant called Sundesert.

Dr. Rosenfeld told the governor that just by requiring refrigerators to be more energy efficient, the state could save as much electricity as the Sundesert plant would produce. The next morning, Dr. Rosenfeld got a call from a top California energy official.

Energy-efficiency requirements for refrigerators and freezers sold in California went into effect in 1977. They were soon followed by standards for other appliances. In 1987, the federal government, following California's lead, began imposing its own efficiency requirements for appliances.

California also adopted, in 1978, the first state energy-efficient building code, partly as a result of Dr. Rosenfeld's research. In what is sometimes called the "Rosenfeld effect," California's per-capita electricity use has remained relatively steady since the mid-1970s

of gadgetry. The rest of the nation's usage, meanwhile, has climbed.

Dr. Rosenfeld was only 18 when he received a bachelor's degree in industrial physics from Virginia Polytechnic Institute. He served in the Navy in World War II, spending two years teaching radar operators in Chicago.

He studied physics at the University of Chicago under Enrico Fermi, the Nobel laureate who created the world's first controlled nuclear chain reaction under an abandoned university football stadium. He received a Ph.D. in 1954.

Dr. Rosenfeld's research in energy efficiency led to an advisory role at the Department of Energy under President Bill Clinton. He also served on the California Energy Commission from 2000 to 2010.

After retiring at 83, Dr. Rosenfeld travelled the country speaking about ways to cut energy use and heat in cities. He particularly endorsed the concept of "white roofs," which reflect more sunlight than dark ones and thus are an easy Way to save on air-conditioning costs.

In 2006, President George W Bush awarded Dr. Rosenfeld the Enrico Fermi Award, one of the nation's top science honors. President Barack Obama presented him with the National Medal of Technology and Innovation in 2011.

The year before, a group of scientists proposed a unit of measurement in his name. The "Rosenfeld," they said, should refer to annual electricity savings of three billion kilowatt-hours — enough to eliminate the need for a coal plant.

Last year, Dr. Rosenfeld received the Tang Prize, a recently established Taiwanese award sometimes referred to as Asia's version of the Nobel.

"Art Rosenfeld helped make California the world leader in energy efficiency," Governor Brown. "His path breaking ideas trans-formed our energy sector from one of massive waste to increasingly elegant efficiency."

On the Energy Conservation Day (14th Dec.) a gentle remembrance of a person who is responsible for initiating manufacturing energy efficient equipment.
(compilation by **Er. PA Shah**)

## FORMATION OF SUB-COMMITTEES OF THE CHAPTER

**CC** – Core Committee
**TC** - Technical Committee
**FC** - Food Committee
**OAC** - Office Administration Committee
**FRC** - Fund Raising Committee
**PC** - Procurement Committee
**WDC** - Web Designing Committee
**PIC** - Program Implementation Committee
**IAC** - Internal Audit Committee
**SC** - Student Chapter Organizing Committee
**EBC** - Editorial Board Cum Publication Committee

**Functions and Responsibilities of Committee Members:**

- **CC** – The overall working of all sub committees will be monitored by Core Committee - CC. The Core Committee shall comprise Chairman, Vice Chairman, Secretary and Treasurer of the Chapter. Secondly, any change in committee member or function of the committee will be decided by the CC Members. Any additional EC or AC or Volunteer required by the Sub Committee can availed with the consent of the CC. The financial transaction, procurement activity shall be done in consultation with CC.
- **TC**-Technical Committee. Arrangement of Monthly Lecture, collection of information and details of Lecturer. Arrangement of Seminar / Workshop / Symposium, etc. Call for papers, scrutiny of papers, preparation of souvenir, proceeding, Lecture Notes, etc. Arrangement of Technical Tour.
- **FC** – Food Committee. Arrangement of snacks, tea, coffee, water etc. for monthly meeting. Arrangement of snacks, tea, coffee, water, lunch, dinner etc., as per requirement for monthly lecture.

- Arrangement of snacks, tea, coffee, lunch, dinner, water, etc., as per requirement for Seminar / Workshop / Symposium, etc.
- **OAC** – Office Administration Committee. Attending office periodically during working days between 5.00 pm and 7.00 pm. Preparation and study / examine the email / post, etc., and forwarding the same to the concerned committee for needful. Receipts of membership form, scrutiny of membership and after completion of form submit to the core committee for approval. Circulating email for monthly meeting, monthly lecture, Seminar / Workshop / Symposium, etc. Including follow up with concerned till the matter is concluded. Arrangement of Transportation. Arrangement of Registration in monthly lecture / Seminar / Workshop / Symposium, etc.
- **FRC** - Fund Raising Committee. The committee should give their efforts to raise / increase the fund for the Chapter by way of adding new member (Life / Associate / Student / Institutional), etc., by arranging Seminar / Workshop / Symposium, etc., by getting advertisement for the SPE NEWS LETTER, Souvenir, Proceeding, etc., Collecting donations for the chapter, Increasing student Chapters.
- **PC** – Procurement Committee. The purchases required for office day to day work, gifts, memento, delegation kit, office furniture, books, magazines, etc., for the Chapter and as decided in the various meeting of the Chapter.
- WDC – Web Designing and Maintaining Web Site of the Chapter. The members of this committees shall collect the information from the concerned members and up-load the same on the web of the Chapter duly approved by the Authority. The activities as decided by the Core Committee, shall be up-loaded by this committee.
- **PIC** – Programme Implementation Committee. The programmes like Monthly Lecture, Seminar, Workshop, Symposium, AGM, Cultural Program, etc., which are being organized by the Chapter, shall be implemented by this sub-committee, the activities like banner preparation, registration of members / delegates, presentation equipment / machinery, and co-ordination with other committees for success of the program. Transportation arrangement shall also to be made by this committee. If transportation activities are involved, then by creation of Transport Committee under this committee, shall be formed as and when required as per directive of CC for monthly lecture, Seminar / Workshop / Symposium, etc.
- **IAC** – Internal Audit Committee. Verification of monthly income and expenditure of the Chapter. Verification of accounts for Seminar / Workshop / Symposium, etc. Verification and implementation of delegation powers to the various committee and / or members. Verification of annual accounts. Verification of collection of fees, advertisement charges, sponsor charges, etc.
- **SC i.e. SCOC** – Student Chapter Organizing Committee. After formation of Student Chapter, the committee shall monitor the activities of the Student Chapter and arrange for lecture, technical tour, Seminar / Workshop / Symposium, etc., for the Student Chapter as per provision in the student chapter activity.
- **EB/PC** – Editorial Board includes Publication Activities. Collection of Information, Technical Paper, Editorial News, etc., for quarterly SPE NEWS Letter including printing of the same in soft copy as well as hard copy as per the decision of the Core Committee Members. Providing assistance to PI Committee for printing of Souvenir / Proceeding / Literature etc.

Following are members for the various Committees:

- EC – Executive Committee Member
- AC – Advisory Committee Member
- PM – Patron Member
- **Yc** – Co-ordinator of the Sub Committee. Secondly, the **Yc** shall work for the sub-committee head and co-ordinate all responsibilities of the Committee including his / her responsibilities.
- **Y** – Sub Committee Member. He / She shall work for the sub-committee and perform all responsibilities as per directive of Yc..

| Sr. No. | Name of Er. | CC | TC | FC | OAC | FRC | PC | WDC | PIC | IAC | SOC | EB/PC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EC 1 | GV Akre | Yc | Yc | | | Y | | | | | | |
| EC 2 | RS Shah | Y | | Y | | | Yc | | | | Yc | |
| EC 3 | YV Joshi | Y | Y | | | | | Yc | | | | |
| EC 4 | VB Harani | | | | | Yc | | | Y | | | |
| EC 5 | SP Trivedi | | | | Y | | | | Y | Yc | | |
| EC 6 | BT Dalvadi | | | | | | Y | | Yc | | | |
| EC 7 | Umesh Parikh | | Y | | | | | Y | | | | Yc |
| EC 8 | SM Baxi | | Y | | Yc | | | | | | | |
| EC 9 | Parag Parmar | | | | | Y | | Yc | | | | |
| EC 10 | YD Mehta | | | Y | | Y | Yc | | | | | |
| EC 11 | NG Yadav | Y | | Yc | | Y | Y | | Y | | | |
| EC 12 | Manish Pandya | | | | | Yc | | | | | | |
| AC 1 | PA Shah | | | | | | | | | Y | Y | Y |
| AC 2 | NV Lathia | | | | Y | | | | | | Y | |
| AC 3 | BN Raval | | | | | Y | | | Y | | | |
| AC 4 | VJ Desai | | Y | | | Y | | | | | | |
| AC 5 | SM Godkhindi | | | Y | Y | | | | Y | | | Y |
| AC 6 | MO Sheth | | | Y | | | | | | | | |
| AC 7 | Gitesh Chitalaia | | Y | | | Y | | | | | | |
| AC 8 | HD Joshi | | Y | | | | | | | | | |
| AC 9 | Sangita Godkhindi | | Y | | | | | | | | | |
| AC 9 | Archana Nanoty | | | | | Y | | | | | Y | |
| AC 10 | Varsha Joshi | | | | | Y | | | | | | |
| AC 11 | Sheetal Shinkhade | | | | | Y | | Y | | | Y | |
| AC 12 | KN Rathod | | | | Y | | Y | | | Y | | |
| AC 13 | NC Solanki | | | Y | Y | | | | Y | | | |
| AC 14 | HR Karandikar | | Y | | | Y | | | Y | | | |
| AC 16 | PP Shah | | | | | | | Y | | | | |
| PM 1 | SM Takalkar | | Y | | | Y | | | | | | Y |
| PM 2 | Dr. AJ Chavda | | Y | | | | | | | | | Y |

## NEW LIFE / YEARLY MEMBERS ENROLLED DURING JUL & DEC 2022

| G.R. No. | Grade | Name |
|---|---|---|
| 2399 | M (22-23) | Dhaval B Dave |
| 2400 | LM | Ms. Rital R Gajjar |
| 2401 | LM | Rakeshkumar C Gajjar |
| 2402 | LM | Kalpeshkumar J Chauhan |
| 2403 | LM | Yatinkumar A Pathak |
| 2404 | LM | Hemantkumar G Nashikkar |
| 2405 | LM | Vijaykumar J Thakar |
| 2406 | LM | Sushil K Sharma |
| 2407 | LM | Riteshkumar R Solanki |
| 2408 | LM | Jigneshkumar K Shah |
| 2409 | LM | Dr. Ashokkumar J Chavda |
| 2410 | LM | Harsha S Ahya |
| 2411 | LM | Dineshkumar P Modi |
| 2412 | LM | Pramthesh A Pandya |

## ACTVITIES OF MEMBERS

On invitation of BAPS, Atladra, Vadodara, a group of SPE (I) Vadodara Chapter members along with Chairman, visited "**Pramukh Swami Shatabdi Mahotsav**" at Ahmedabad on 01 Jan 2023. The visit was arranged by BAPS Vadodara.

Members attended some shows, themes related to Pramukh Swamiji.

Members appreciated the work, management, programmes of the Shatabdi Mahotsav committee.

**SPE (I) Vadodara Chapter** extends its gratitude to BAPS, Vadodara for arranging visit.

## OBITUARY

**Dr Manjula Subramaniyam**, a 1972 batch IAS officer of Gujarat Cadre served as Chairman, erstwhile Gujarat Electricity Board (GEB) passed away on 1st Jan 2023 at Vadodara. She was an upright officer known for her Integrity, Governance skill and outspoken nature. She was 74.

Dr. Subramaniyam had contributed successfully in **Un-Bundling** of erstwhile GEB as a part of **Power Sector Reform** process. She had contributed in the administration of GEB 3 times. First, she was a **Deputy Secretary**(Power), then **Member** (Administration) and lastly **Chairman**. Despite her stubborn nature, she was extremely considerate to the employees in distress.

The **Society of Power Engineers, Vadodara Chapter** prays for the departed soul to rest in eternal peace.

THE END