

# The Institution of Engineers (India)



## T. N. STATE CENTRE

# BULLETIN



Er. S. Kannan, FIE  
Chairman

Er. K. N. Sivaraju, MIE  
Honorary Secretary

Vol. 20 : No. 05

January 2022

### From the Chairman's Desk.....



It is my pleasure indeed to meet all of you through our News Bulletin.

It is an immense pleasure to share that the IE(I), Tamilnadu State Centre celebrated the Inauguration of Centenary Celebration on 22nd December 2021 at Hotel Le Royal Meridien, Chennai. Despite the outbreak of the Pandemic situation, we had our committee members and dignitaries to grace the occasion.

We had our Hon'ble Minister **Thiru Anbil Mahesh Poyyamozhi**, Minister for School Education, Government of Tamilnadu as Chief Guest and Guest of Honours are **Padmabhushan Dr A Sivathanu Pillai**, Founder CEO & MD of BrahMos Aerospace, Former Chief Controller (R&D), DRDO, Honorary President PMA India, **Padmashree Dr Mylswamy Annadurai**, Vice President, TNSCST, Chairman, National Design and Research Forum and **Dr T M Gunaraja**, Immediate Past President, IE(I).

The celebration started with unveiling the Centenary logo of IEI Tamilnadu State Centre by our Chief Guest Thiru Anbil Mahesh Poyyamozhi. During his speech our Hon'ble Minister

### HOMAGE



With deep regret and sympathies, we convey the sad demise of IE(I) Tiruchirappalli Local Centre Chairman Er. N Rajasekaran, FIE due to heart attack at Delhi. We convey our heartfelt condolences to his family.

May his soul Rest in Peace.

had praised the engineering community for their contribution in the economy of the state and India as a whole.

I request every one of you to be a contributor to the Institution growth and development leading to the development of India's economy. As Mr Sivathanu Pillai & Mr Mylswamy Annadurai quoted in their speech during the inauguration of centenary celebration day we need to derive a Road Map to achieve the 1 trillioneconomies. We need to set our yearly goals to achieve and contribute to the development of our country.

The IE(I) Tamilnadu State Centre celebrating the centenary year throughout this year 2022 has decided to conduct more technical activities. I invite all corporate members to participate in the technical activities for this year and support the IE(I) Tamilnadu State Centre.

I request all the corporate members to bring in more and more new members into the IEI with the slogan **"EVERY MEMBER INDUCT NEW MEMBER"** to double the strength of IEI Tamilnadu. More young minds and talents are requested to join us to travel together and benefit from each other's contribution towards the economic growth of our nation. I request all our corporate members to visit our **IEI TNSC YouTube Channel and SUBSCRIBE** for further notification of technical events.

Er. S. Kannan, FIE  
Chairman – TNSC





# INAUGURATION of CENTENARY CELEBRATION



(L to R) : Dr T M Gunaraja, Padmabhushan Dr A Sivathanu Pillai, Thiru Anbil Mahesh Poyyamozhi, Er S Kannan, Padmashree Dr Mylswamy Annadurai and Er K N Sivaraju.



**Dignitaries Lighting the Lamp**

The Institution of Engineers (India) Tamilnadu State Centre is entering into its Centenary year of service to the Nation. The Institution of Engineers (India) Tamilnadu State Centre celebrated the Inauguration of Centenary Celebration on 22nd December 2021 at Hotel Le Royal Meridian, Chennai. The function was started by the prayer song followed by lighting of lamp by the dignitaries. **Er S Kannan**, Chairman, IEI TNSC delivered the welcome address. The Inaugural function

was graced by **Thiru Anbil Mahesh Poyyamozhi**, Hon'ble Minister for School Education, Government of Tamilnadu as a Chief Guest. **Padmabhushan Dr A Sivathanu Pillai**, Founder CEO & MD of BrahMos Aerospace, Former Chief Controller (R&D), DRDO, Honorary President PMA India, **Padmashree Dr Mylswamy Annadurai**, Vice President, TNSCST, Chairman, National Design and Research Forum and **Dr T M Gunaraja**, Immediate Past President, IE(I) was the Guests of Honour.





**Releasing the IEI TNSC 100 years Logo by Chief Guest.**

Centenary logo of IEI Tamilnadu State Centre was released by the Chief Guest **Thiru Anbil Mahesh Poyyamozhi**. Also, **Dr P Rajamani**, Council Member was felicitated on this occasion. The event was attended by a large galaxy of distinguished engineers from various divisions. All dignitaries were honoured with shawl and memento.



Memento presented to the Chief Guest **Thiru Anbil Mahesh Poyyamozhi** by **Er S Kannan**, Chairman, IEI TNSC.

Sponsors and Co- Sponsors of the event were honoured with memento. Vote of thanks was proposed by **Er K N Sivaraju**, Honorary Secretary, IEI Tamilnadu State Centre. The meeting concluded with National Anthem.



**Group Photograph of the Members**



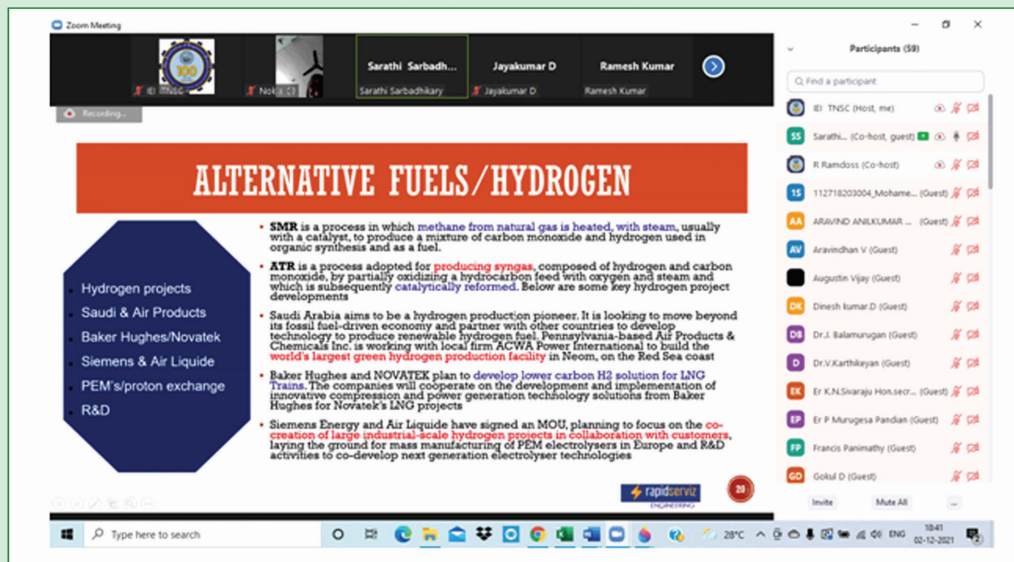


**INAUGURATION OF CENTENARY CELEBRATION**



# Talk on “Impact of Oil & Gas Energy in Digital and Electrical Transformation”

02.12.2021



The Tamilnadu State Centre of the Institution of Engineers (India) organised the lecture meeting on the topic “Impact of Oil & Gas Energy in Digital and Electrical Transformation” on 2nd December 2021 at 6.00 pm through online Zoom Meeting.

At the outset., **Er S Kannan**, FIE Chairman, IE(I) Tamilnadu State Centre welcomed the gathering. **Er K N Sivaraju**, Honorary Secretary introduced the guest speaker **Er Sarathi Sarbadhikary**, CTO Rapid Serviz Engineering Ltd., Chennai.

**Er Sarathi Sarbadhikary** started his lecture with the introduction of the energy transition is set to transform the economic fundamentals of energy production over the next 30 years.

He explained about the Sustainability. Sustainability is about knowing–

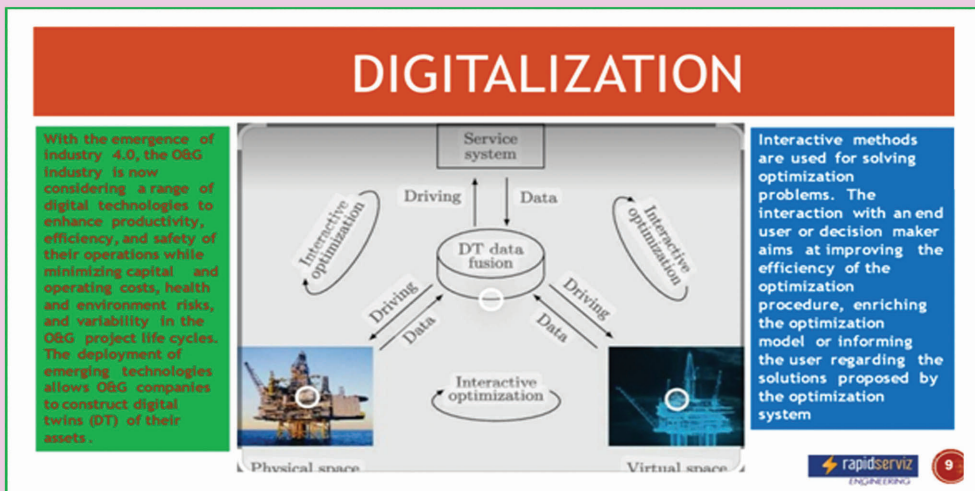
- Where the organization measures on the sustainability scale (carbon footprint)
- Knowing the options available to improve upon sustainability
- Exploring the business trade-offs and financial paybacks

- Implementing strategies that improve the safety and profitability
- What are the key performance indicators (KPI's) to focus on sustainability?
- Safe operations as measured by zero incidents and zero discharges
- Operational metrics like energy usage, flare reduction, fugitive emission measurements and reduction
- Accounting of carbon intensity, water use, waste generation and community impacts

Digitalization is the use of digital technologies to change a business model and provide new revenue and value-producing opportunities; it is the process of moving to a digital business.

For example, converting handwritten or typewritten text into digital form is an example of digitization, as is converting the music from an LP or video off of a VHS tape. It's important to remember, however, that it's the information being digitized, not the processes that's where digitalization comes in.





An organization called Evonik established a digitalization subsidiary and named a chief digital officer (CDO) in 2017. The company has since moved to invest €100 MM (\$113 MM) in the development and testing of new digitization technologies. Dow added the title of CDO to its chief information officer to reinforce its emphasis on digital tools. In this role, the CDO leads a team of executives, business-line presidents and functional vice presidents to develop Dow's digital strategy.

Targeting a focused project is a good way to begin digitalization -

**Design** – develop the digital representation of an existing process

**Operate** – implement process control technology to improve production operations

**Maintain** – use data analytics to understand process failures and plan for abnormal process conditions.

This is the optimum time to research and investigate the

economics of the transition on the road to 2050:

Prepare a levelized cost comparison of each type of energy production

How relative costs are likely to develop, including trends in financing costs

Understand the role of gas (hydrogen) and LNG as a transition fuel

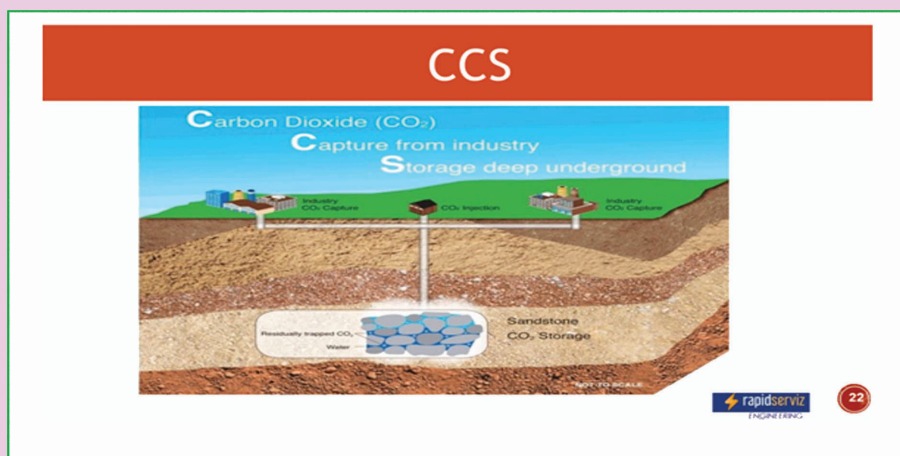
Understand the impact of the pandemic on the speed of the transition

Government policies that could drive mass rollout of low-carbon production

Potential pathways to meet the Paris Agreement / COP26 goal of net-zero emissions by 2050

Comparison of the approaches of the EU, US and Asia-Pacific economies and the impact on the trade in energy, including LNG

**Er K N Sivaraju**, MIE, Honorary Secretary of IE(I) Tamilnadu State Centre proposed the vote of thanks.






# Energy Conservation Day

14. 12. 2021


IEITNSC - ENERGY CONSERVATION DAY

## What is Hydrogen?



- Hydrogen is odourless, flammable, a chemical element.
- Hydrogen is represented by the letter H and atomic number 1.
- Water is a known Hydrogen source. Water is a combination of Hydrogen & oxygen.
- The surface area is 71 % of the earth cover by water. Out of 71% water, 97 % cover by seawater & 3% is freshwater.
- Water is an essential part of our life.

Clean energy - Green energy - Hydrogen Energy highlighted on energy strategy spectrum. The nations already decided on their own goals to achieve a clean energy target by 2030



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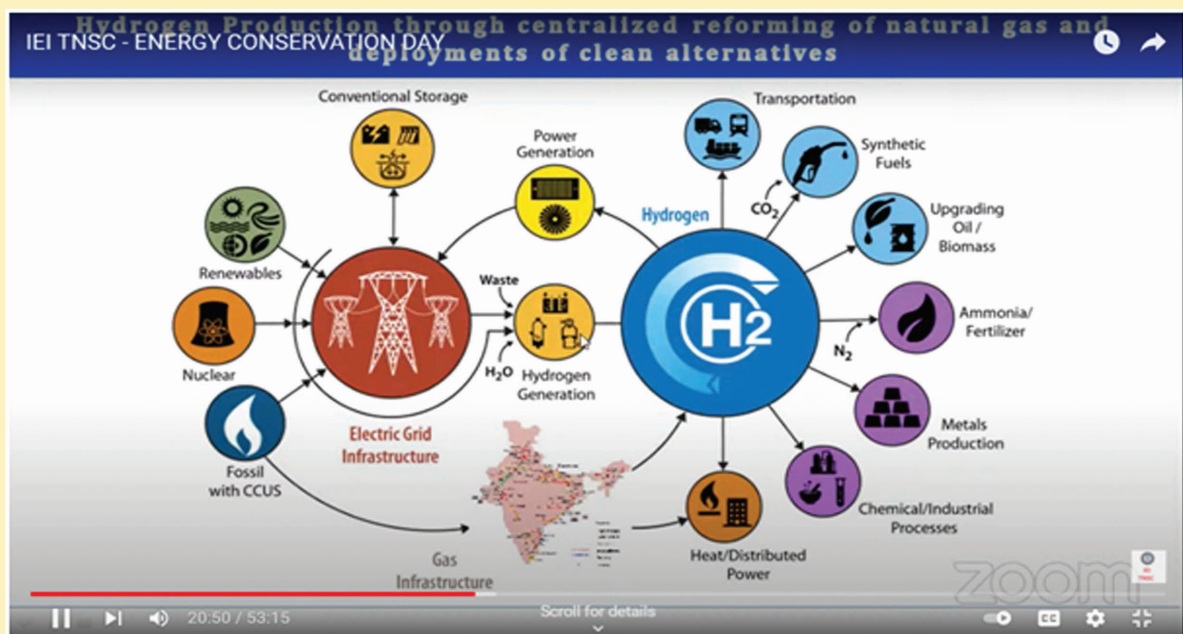
The Tamilnadu State Centre of the Institution of Engineers (India) observed the **Energy Conservation Day** on the theme “**Green Hydrogen**” on **14th December 2021 at 6.00 pm** through online Zoom Meeting.

At the outset., **Er S Kannan, FIE** Chairman, IE(I) Tamilnadu State Centre welcomed the gathering. **Er D Gokul, MIE** Joint Secretary introduced the guest

speaker **Dr Mayilvelnathan Vivekananthan**, Professor, Mohamed Sathak Engineering College, Chennai, Solar Expert, InCoRE-ISES

This presentation is available in **IEITNSC Youtube Channel** : <https://youtu.be/pIHN0wQ8cPE>

**Er K N Sivaraju, MIE**, Honorary Secretary of IE(I) Tamilnadu State Centre proposed the vote of thanks.





## Presented the Memento to Sponsors and Co-Sponsors



1. TMG College of Arts and Science 2. ETASmart Pvt Ltd. 3. PD Technology Service 4. Fibtech Enterprises 5. IEI Kanchepuram Local Centre 6. Rapid Serviz 7. IEI Tiruvallur Local Centre 8. Captain Gopinath Kannan 9. AST INDUSTRIES PVT LTD. 10. Global Engineers 11. Asoka Associates 12. Phoenix & Co 13. Hindustan Institute of Maritime Technology 14. Shivprema Industries 15. Er Bharathkrishnaa Rengaraju 16. IEI Ranipet Local Centre 17. V Migrate Technologies

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Posted at: Egmore RMS (Patrika)

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