

SAVE ENERGY, SAVE MONEY, SAVE ENVIRONMENT



Community Science Centre, Vadodara

**Seminar
On
Saving Electricity
By
High Efficiency Motors
&
Variable Speed Drives**

Programme Date

29th June 2019, **Saturday**

Time: 9.00 a.m. – 6.00 p.m.

Program Fees: Rs. 2000 / Participant

10% Discount for 2 or more person

Venue : Seminar Hall

Community Science Centre, Vadodara

Organized by:

Community Science Centre, Vadodara

Aarti Society, Atmajyoti Ashram Road,

Subhanpura, Vadodara 390023

Tel : 0265-2389749

E-Mail : cscvadodara@yahoo.co.in

SPONSORS

1. SOHAM Technologies
2. GUJARAT PLUG - IN DEVICES PVT. LTD.
3. GURURAJ ENGINEERS
4. EPOCH AUTOMATION PVT. LTD
5. NEOPHASE MOTORS

Community Science Centre, Vadodara:

(CSC) is a non-profit charitable trust recognized by GUJCOST (Gujarat Council on Science and Technology) as a Regional Community Science Centre. The objective of the centre is to promote dissemination of knowledge in Science and Technology to urban and rural communities.

Introduction

In India, Electric Motors account for 75% of electricity consumption. 15% of electricity is consumed in lighting. 10% is consumed for heating, electrolysis etc. In Industry, electricity consumed by Motors account for 90% of total consumption. Motors and drives hence deserve high priority. Electric Motor technology has not changed significantly in last 100 years. What has changed is importance of motor efficiency. Availability of better materials and design techniques and CAD, CFD, have enabled designers to improve efficiency. Running cost of motors in 10 years account for 99% of total cost. Purchase cost account for 1% or less. After Energy Crisis of 1973, efficiency of motors has improved significantly. Today IE3 and IE4 motors of IEC are available in India. Industries have also started using them but much wider use of IE3, IE4 motor is required.

Other major development has been in development of variable speed drives. Industries like steel, textile, paper have been using VSDs for long time. What has changed is development of static devices like transistors, thyristor, IGBT, GTO. This development has led to new technology for inverters with superior performance characteristics. Prices of inverters have also dropped significantly. VFDs are now widely used for energy saving for pumps and fans. VFDs are also now used for conveyors, compressors, ball mills etc.

About the Seminar:

This seminar is basically arranged to give participants from industries latest trends in design and application of high efficiency motors and drives. Manufacturers of motors and drives will discuss latest technology as well as case studies for different applications. IS 12615 for high efficiency motors has also undergone major change in 2018.

Use of high efficiency motors and drives can lead to 10% to 30% saving in Electricity in Industry

Programme Faculty:

Dr.B.G.Desai, Mr.J.S.Rana (Community Science Centre, Vadodara), Mr. Mohan R. Tilwalli (Gururaj Engineers), MR. Bhart P Makwana (Epoch Automation Pvt. Ltd), Mr. Bharat Shah (Neophase Motors), Dr. Satish Chetwani (ERDA), Mr. Mehul Chauhan (ABB), Mr. Virat Panchal (ABB). Other industries like Schneider, Amtech are also likely to give presentation.

For Whom:

Engineers, managers working in industries, utilities, and commercial establishment will benefit from this programme. It will be also useful to Energy Auditors and Managers. .

Programme Material:

A CD of all presentation will be given to all participants. Our presentation will be uploaded on our website www.cscvadodara.com

Programme Fees :

Rs. 2000/- per participant

10% Discount for 2 or more participants

This includes tea/coffee, Working Lunch & Programm material

Payment of Fees:

Fees can be paid in Cash/Cheque/D.D. in favour of "Community Science Centre, Vadodara". Kindly send your Registration Form with necessary fees to the Director, CSC Vadodara
Fees can also be paid by NEFT

Venue: Community Science Centre, Vadodara

Aarti Society, Atmajyoti Ashram Road,

Subhanpura, Vadodara-390 023.

Tel: 0265-2389749

E-Mail : cscvadodara@yahoo.co.in

For registration please contact

Dr. Jitendra Gavali 9725891033

Mrs. Harshanqi Yaqnik 9879732645



Community Science Centre, Vadodara

Seminar On Saving Electricity

By High Efficiency Motors

&

Variable Speed Drives

29th June 2019, Saturday

Time: 9.00 a.m. – 6.00 p.m.

Registration Form

Name and Address of the Sponsoring Organisation :

Tel. No. : -----

E-Mail : -----

Names of the participants:

1. -----
2. -----
3. -----

Sponsoring Authority Signature

Programme Fees : Rs. 2000/- per participant

10% Discount for 2 or more participants

Note: Fees shall be paid in Cash / Cheque / D.D. in favor of
Community Science Centre, Vadodara".

Fees can also be paid by **NEFT**

Account Name: Community Science Centre Vadodara

Account Number: 14790100005328

IFCS: BARBOATMAJY (fifth character is ZERO)

MICR Code: 390012022

Customer ID: 000432751

Mailing Address :

The Director, Community Science Centre, Vadodara
Aarti Society, Atmajyoti Ashram Road, Subhanpura,, Vadodara-390
023. Tel: 0265-2389749

E-Mail: cscvadodara@yahoo.co.in

For registration please contact

Dr. Jitendra Gavali 9725891033

Mrs. Harshangi Yagnik 9879732645

Seminar On Saving Electricity By High Efficiency Motors

&

Variable Speed Drives

Program Schedule

29th June 2019, Saturday

Time	Program	
9.00 – 9.30	Registration	
9.30 – 10.15	Inauguration	
10.15 -10.30	Tea Break	
10.30 - 13.30 High Efficiency Motors	10.30 -11.15	Dr. B.G.Desai
	11.15 – 11.45	Mr. B.P.Makwana
	11.45 -12.15	Dr. Satish Chetwani
	12.15 – 12.45	Mr. Mehul Chauhan
	12.45 – 13.15	Mr. Bharat Shah
13.15 – 14.00	Lunch	
14.00 – 15.00 Variable Speed Drives	14.00-14.45	Mr. Mohan Tilwali
	14.45-15.15	Mr. Virat Panchal
	15.15 –15.45	Mr. Yatin Joshi
	15.45-16.00	Tea Break
	16.00- 16.30	Mr. B.P.Makwana
	16.30 – 17.00	
17.00-18.00	Discussion	