

## Workshop on Energy Conservation Subject Material for Diploma and ITI

Attended by Parth Patel, Diwaliba Polytechnic

On 11<sup>th</sup> October, 2018

Community Science Center (CSC), Vadodara organized a Workshop on Energy Conservation Subject Material for Diploma and ITI on 11<sup>th</sup> October, 2018. Workshop was attended by Parth Patel, Diwaliba Polytechnic with an object to share valuable feedbacks and receive prepared material from the organizers.

A total of 29 members were present from different ITI, Diploma Engineering College and Energy related Industries. Workshop was started with inauguration and welcome speech by Dr. B. G. Desai, Ms. Anita Pandya, Mr. Rajendra Pandya and Chairperson of CSC, Vadodara.

After a small tea break, Dr. B. G. Desai presented presentation on “Energy Conservation Subject Material for Diploma Engineering common for all branches” and Mr. Rajendra Pandya continued his presentation on “Energy Conservation Subject Material for ITI” which included points like:

Energy in India, Introduction to energy, Energy Audit, Energy Saving in Electrical Utilities, Energy Saving in Thermal Utilities, Financial Analysis, Management of Energy Conservation, Case Studies and BEE - Standard and Labelling.

After the lunch, all the participants discussed about both the presentation and common suggestions were as listed below:

- Introduction of a compulsory subject related to Energy Conservation to Diploma Engineering students as well as all trades of ITI.
- Different topics of in depth study for Electrical, Mechanical and Chemical field should be there along with common topics as mentioned earlier.
- Teaching should also include experiments along with theory as per branch and course duration.
- Various simple energy saving tasks like analysis of energy bill, measurement of electricity requirement of different devices, Life cycle cost analysis, Energy audit etc. can be incorporated in experiments and an energy conservation laboratory can be established.
- Institutes can tie up with industries to organize a visit of Energy audit firm or arrange expert's lecture at institute to provide latest technologies for energy conservation.

After the discussion, Dr. B. G. Desai gave a short presentation on “Tips for energy conservation” which includes tips for Boilers and Steam Systems, Furnaces, Electric Motors & Drivers, Pumps, Fans, Blowers, Compressed Air Systems, Refrigeration and Air-conditioning, Cooling Tower, Lighting and Energy Efficient Building.

The workshop was ended with concluding speech of Dr. B. G. Desai, Mr. Rajendra Pandya and Ms. Anita Pandya.