TRAINING CALENDAR
2019 – 20
Energy is one of the most important building blocks in development of a nation. Being a developing country, India has witnessed a rapid growth in its energy requirement. India's crude oil imports account for about 83.7% of its requirement. Thus, conservation and optimal utilisation of petroleum resources play an important role in reducing the energy intensity as a whole.

Knowledge dissemination and training remains a key thrust area for PCRA to encourage masses towards judicious consumption of available energy resources. PCRA conducts large number of training programs including technical ones for target segments on variety of subjects, such as energy audits, eco driving, energy management system, improvisation of energy efficiency in equipments etc. These training programs provide an opportunity to stake holders to interact on newer technologies, minimisation of waste, better operational practices leading to energy savings and reduction in carbon foot prints. This year's Training Calendar contains topics of energy saving opportunities in transport and agriculture sectors, development of improved PNG stove, energy efficiency in LPG plants and POL installations, etc.

I look forward to receive your valued suggestions to continually improve our training programs in value proposition.

(Alok Tripathi)
Executive Director
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<tr>
<th>S. NO.</th>
<th>DATE</th>
<th>DAY</th>
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<tr>
<td>1.</td>
<td>25.04.19</td>
<td>Thursday</td>
<td>Petroleum Conservation in Agriculture Sector</td>
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<td>2.</td>
<td>01.05.19</td>
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<td>Energy Saving in Ceramic Industry using Ultra Low Density Refractory in Kiln car</td>
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<td>3.</td>
<td>21.06.19</td>
<td>Friday</td>
<td>Introduction of Developed PNG Stove to PNG Customers</td>
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<td>4.</td>
<td>14.08.19</td>
<td>Wednesday</td>
<td>ISO 50001 Competency Building</td>
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<td>5.</td>
<td>25.09.19</td>
<td>Wednesday</td>
<td>Petroleum Conservation in Transport Sector and its Impact on Environment</td>
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<td>6.</td>
<td>18.10.19</td>
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<td>Energy Efficiency in LPG Plants</td>
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<td>22.11.19</td>
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<td>Petroleum Conservation in Agriculture Sector</td>
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<td>17.12.19</td>
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<td>Energy Efficiency in POL Installations</td>
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<td>9.</td>
<td>07.01.20</td>
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<td>Petroleum Conservation in Agriculture Sector</td>
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<td>10.</td>
<td>28.02.20</td>
<td>Friday</td>
<td>Petroleum Conservation in Transport Sector and its Impact on Environment</td>
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<td>11.</td>
<td>03.03.20</td>
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<td>Petroleum Conservation in Agriculture Sector</td>
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</table>
PETROLEUM CONSERVATION IN AGRICULTURE SECTOR

<table>
<thead>
<tr>
<th>VENUE</th>
<th>TARGET PARTICIPANTS</th>
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<tbody>
<tr>
<td>Chennai</td>
<td>External PCRA faculty of agriculture sector/PCRA staff</td>
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</table>

**OBJECTIVES**

Train the trainer-
To educate PCRA faculty & staff understand tractors and other agriculture implements is leading maintenance aspects in conducting more effective future workshops

**COVERAGE / CONTENTS**

- Fuel/water conservation in irrigation and cultivation
- Usage of solar energy in agriculture sector
- Different types of implements used with tractors
- Selection of right implements with correlation to fuel saving
- Areas of general maintenance for better fuel economy
ENERGY SAVING IN CERAMIC INDUSTRY USING ULTRA LOW DENSITY REFRACTORY IN KILN CAR

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<tr>
<th>VENUE</th>
<th>TARGET PARTICIPANTS</th>
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<tbody>
<tr>
<td>Gujarat MSME cluster</td>
<td>MSMEs of Morbi, Thangarh and Naroda Ceramic cluster</td>
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</table>

**OBJECTIVES**

- Dissemination of R&D project findings for energy saving in Ceramic Industry

**COVERAGE / CONTENTS**

- Brief on PCRA and Central Glass & Ceramic Research Institute
- Energy saving in ceramic industry using ultra low density refractory in kiln car
- Techno-commercial feasibility
## INTRODUCTION OF DEVELOPED PNG STOVE TO PNG CUSTOMERS

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<th>VENUE</th>
<th>TARGET PARTICIPANTS</th>
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<tr>
<td>Delhi</td>
<td>GAIL, PCRA, IGL, MGL, IIP Dehradun, PNG manufacturer Association, PNG manufacturers</td>
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</table>

### OBJECTIVES

Dissemination of R&D project findings for energy saving in PNG stove.

### COVERAGE / CONTENTS

- Brief on developed PNG stove & its benefit in terms of fuel saving
- Discussion on procurement processes and other obligations.

**2019**

**JUNE**

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IF YOU SMELL GAS:

- Ensure that BURNER KNOBS are in CLOSED position
- Do not light a match
- Open all doors and windows
- Do not operate electrical switches or appliances in the room
- Put the safety cap on the cylinder
- Dial 1906, the emergency helpline
- Open all doors and windows

2019

JULY

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# ISO 50001 Competency Building

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<th>VENUE</th>
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<tr>
<td>PCRA HQ</td>
<td>Engineers from OMCs</td>
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## Objectives
- Competency building on ISO 50001 leading to consistency in execution of assignments
- To create EnMS in OMC installations

## Coverage / Contents
- Overall approach to energy review and performance standards
- Practical aspects of EnMS establishment in industrial organization
- Legal / other requirements and applicable standards supporting EnMS
- Linkage with EC Act
- Documentation & methodology for ISO 50001 implementation

## 2019 Schedule

### AUGUST

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# PETROLEUM CONSERVATION IN TRANSPORT SECTOR AND ITS IMPACT ON ENVIRONMENT

## VENUE

PCRA Mumbai

## TARGET PARTICIPANTS

Fleet owners, transporters & other stakeholders related to transport

## OBJECTIVES

To sensitize fleet owners, transporters and other stakeholders on conservation of petroleum products thereby saving environment from pollution and reducing import of petroleum products

## COVERAGE / CONTENTS

- PCRA and its activities in energy conservation
- Petroleum conservation & maintenance tips for vehicles
- Vehicular pollution and its impact on health & environment
- Energy saving opportunities in heavy duty & other commercial vehicles
- Amendment in CMVR

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**SEPTEMBER 2019**

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<td>PCRA HQ</td>
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**OBJECTIVES**

Create awareness among decision makers towards need of energy conservation. Disseminate information on various approaches towards energy conservation. Enhance awareness on innovative technologies. Sharing of success stories for wider replication.

**COVERAGE / CONTENTS**

- Sharing of major outcomes of energy audit
- Energy conservation opportunities in lighting
- Renewable Energy – Potential and use in LPG bottling plants
- Energy conservation opportunities in compressors
- Energy conservation opportunities in optimization of electric system
- ISO 50001:2011 approach for energy efficiency
- Sharing of success stories
### OBJECTIVES
To have joint interaction with KVK program co-ordinators/ University faculty about the fuel conservation opportunities in agriculture sector. Ways and means to reach farmer community for creating awareness on the importance, need and methods of oil conservation related to agriculture sector.

### COVERAGE / CONTENTS
- Brief on PCRA and its activities related to energy conservation
- Petroleum conservation tips related to tractors and pumpsets
- Pollution and its impact on health and environment, green house gases and climate change
- Successful PCRA sponsored R & D projects pertaining to agriculture sector
ENERGY EFFICIENCY IN POL INSTALLATIONS

VENUE
PCRA HQ

TARGET PARTICIPANTS
OMC Engineers

OBJECTIVES
Create awareness among decision makers towards need of energy conservation. Disseminate information on various approaches towards energy conservation. Enhance awareness on innovative technologies. Sharing of success stories for wider replication

COVERAGE / CONTENTS
- Sharing of major outcomes of energy audit
- Energy conservation opportunities in lighting
- Renewable Energy – Potential and use in LPG bottling plants
- Energy conservation opportunities in compressors
- Energy conservation opportunities in optimization of electric system
- ISO 50001:2011 approach for energy efficiency
- Sharing of success stories
PETROLEUM CONSERVATION IN AGRICULTURE SECTOR

VENUE
Agriculture University/ Agriculture Extension Deptt./ Zonal ATARI HQs/KVKs

OBJECTIVES
To have joint interaction with KVK program co-ordinators/ University faculty about the fuel conservation opportunities in agriculture sector. Ways and means to reach farmer community for creating awareness on the importance, need and methods of oil conservation related to agriculture sector.

TARGET PARTICIPANTS
KVK co-ordinators/ University faculty

COVERAGE / CONTENTS
- Brief on PCRA and its activities related to energy conservation
- Petroleum conservation tips related to tractors and pumpsets
- Pollution and its impact on health and environment, green house gases and climate change
- Successful PCRA sponsored R & D projects pertaining to agriculture sector

2020

JANUARY

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13 14 15 16 17 18 19 20 21 22 23 24
25 26 27 28 29 30 31
PETROLEUM CONSERVATION IN TRANSPORT SECTOR AND ITS IMPACT ON ENVIRONMENT

VENUE
PCRA Kolkata

TARGET PARTICIPANTS
Fleet owners, transporters & other stakeholders related to transport

OBJECTIVES
To sensitize fleet owners, transporters and other stakeholders on conservation of petroleum products thereby saving environment from pollution and also reducing import of petroleum products for the country

COVERAGE / CONTENTS
- PCRA and its activities in energy conservation
- Petroleum conservation & maintenance tips for vehicles
- Vehicular pollution and its impact on health & environment
- Energy saving opportunities in heavy duty & other commercial vehicles
- Amendment in CMVR
PETROLEUM CONSERVATION IN AGRICULTURE SECTOR

VENUE
Training centre of tractor manufacturer

TARGET PARTICIPANTS
External PCRA faculty of agriculture sector/PCRA staff

OBJECTIVES
Train the trainer-
To educate PCRA faculty & staff understand tractors and other agriculture implements is leading maintenance aspects in conducting more effective future workshops

COVERAGE / CONTENTS
• Fuel/water conservation in irrigation and cultivation
• Usage of solar energy in agriculture sector
• Different types of implements used with tractors
• Selection of right implements with correlation to fuel saving
• Areas of general maintenance for better fuel economy

MARCH

MON  TUE  WED  THU  FRI  SAT  SUN  MON  TUE  WED  THU  FRI  SAT  SUN
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9     10    11    12    13    14    15    16
17    18    19    20    21    22    23    24
25    26    27    28    29    30    31
AREAS OF EXPERTISE

- PAT & ENERGY AUDIT
- ISO CERTIFICATION
- DRIVER TRAINING PROGRAMME
- TRAINING PROGRAMME IN INDUSTRIAL, TRANSPORT, AGRICULTURE & DOMESTIC SECTORS
- STANDARD & LABELLING OF EQUIPMENT
- DEVELOPING FUEL & ENERGY SAVING PRODUCTS & TECHNOLOGIES
- PROMOTION OF BIOFUELS
- MASS AWARENESS