

Online Proficiency Improvement Programme (oPIP) 3 days oPIP on "Micro Grid Technology and O&M of Micro Grid Battery" from 24th to 26th November 2020

EV Awareness Programme Supported by:



Invited Speakers

**Inauguration on
24th November 2020 at 10:00 by:**



Dr. Rahul Walawalkar,
President & MD,
Customized Energy
Solutions India Pvt. Ltd.



Mr. N. Mohan,
Dy. GM & Head,
EV Charging
Infrastructure, EESL



Mr. Maxson Lewis,
Managing Director,
Magenta

**Valedictory Session on
27th November 2020 at 15:00 by:**

Speakers:



Mr. Nitin Akhade,
Consultant,
Rural Electrification & Livelihoods,
Emerging Technologies & Markets,
Customized Energy Solutions India Pvt. Ltd.



Mr. Nikhil Murarka,
Director Engineering
and Innovation,
Husk Power Systems



Mr. Rajarshi Sen,
Technical Adviser,
Customized Energy
Solutions Pvt. Ltd. (USA)



Mr. Ayush Misra,
Co-founder and CEO,
Ampere Hour Energy



Mrs. Sudeshna Mukherjee,
Director Operations,
Hamara Grid Pvt. Ltd.



Mr. Debmalya Sen,
Senior Consultant,
Emerging Technologies,
Customized Energy Solutions

oPIP Overview

Off-grid power systems based on renewable (Solar PV, Small wind turbine or Alternate generation) and Battery energy storage systems are becoming a solution of great interest for rural electrification and urban microgrid. Across the globe, with the importance of resiliency and reliability, microgrids are taking centre stage for large SEZs, townships, university campuses, or industries. The energy storage system is one of the most crucial components in this distributed generation system, since inappropriate design can affect reliability and final per unit cost. Appropriate design process of a microgrid must be obtained to optimize the O & M cost of microgrid while meeting the load demand. The O&M cost includes the operation and maintenance cost of generated energy by each source and also the energy purchased from the utility (if connected). To improve the reliability and enhance the economic dispatch of the microgrid, a battery energy storage is included in the microgrid.

In this training ARAI Academy & IESA Academy, together, will discuss on microgrid design, O&M procedure and how to maximize battery life.

Mr. N. R. Shimpi / Mr. N. A. Deshmukh / Mr. R. M. Patil
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nadeshmukh.pga@araiindia.com; patil.pga@araiindia.com
Website: www.araiindia.com; academy.araiindia.com; emobility.araiindia.com

For registration, please mail to training.pga@araiindia.com

Note: Candidates with more than 50% marks in the assessment test are eligible for the certificate.

Registration Fees:
Rs. 1800 + 18% GST = Rs. 2124 (per participant)

Mode of Payment: Online Transaction
ARAI Pune Account No: 04470200000280
IFS/RTGS/NEFT Code: BARB0KARVER (0=Zero)

Note: Participants whose organization is in SEZ, kindly confirm for GST applicability, before making the payment.

Note: ARAI reserves the right to change the dates, contents, schedule, etc. for the programme without any notice.
No recordings of the training session will be provided. Hence, request to attend all the sessions.

03 Day Online Proficiency Improvement Programme (oPIP) on 'Micro Grid Technology and O&M of Micro Grid Battery'

Workshop Overview:

With ever increasing demand for Electric Vehicles, the charging of it forms the apex for it's use. Government's support towards promoting E-Mobility is a positive approach to improve the environment & the economy. India is eyeing to ramp up EV charging stations up to 2000 numbers by 2020-21.

But, as not to limit to charging stations, off-grid power systems based on renewable (Solar PV, Small wind turbine or Alternate generation) and Battery energy storage systems are becoming a solution of great interest for rural electrification and urban microgrid. Across the globe, with the importance of resiliency and reliability, microgrids are taking centre stage for large SEZs, townships, university campuses, or industries. Also, a proper design process of a microgrid must be obtained to optimize the O & M cost of microgrid while meeting the load demand.

Energy storage options can also be used for the economical operation of energy systems to cut down system's operating cost. By utilizing ESSs, it is possible to store energy in off-peak hours with lower cost and energize the grid during peak load intervals to avoid high price spikes. But, improper operation and over/under-sizing of the battery impact battery health.

In this training, ARAI Academy & IESA Academy, together, will discuss on microgrid design, O&M procedure, and how to maximize battery life.

Save the Dates!

**24th to 26th Nov.
2020**
via Online Platform

**EV Awareness Programme
supported by:**



**03 days
06 hours**

Registration Fees :



Pricing Category	Registration fees per person (incl. 18% GST)
Industry Professionals/ Teaching Faculty/ Students	Rs. 1800 + Rs. 324 = Rs. 2124

Participants whose organization is in SEZ, kindly confirm for GST applicability, before making the payment. 10% discount, if 10 or more delegates are registered from the same organization.

For registration, please mail to training.pga@araiindia.com

Schedule from 24th to 26th Nov. 2020 via Online Platform

Sr.	Session	Date	Day	Time
	Inauguration	24-Nov-20	Tuesday	10:00-10:30
1	Microgrids – An Enabler for Equitable Energy for All.	24-Nov-20	Tuesday	10:30-11:30
2	Microgrids Sizing & Design	24-Nov-20	Tuesday	11:30-12:30
3	O&M of Lead Acid Battery of the Microgrids	25-Nov-20	Wednesday	10:00-11:00
4	Operation and Maintenance of Minigrids	25-Nov-20	Wednesday	11:00-12:00
5	Learning from a Sustainable Microgrids	26-Nov-20	Thursday	10:00-11:00
6	Mini Grids for Replacing Diesel in Commercial and Industrial Set up	26-Nov-20	Thursday	11:00-12:00
	Feedback & Assessment Test	27-Nov-20	Friday	10.00-11.00
	Valedictory Session & Declaration of Toppers	27-Nov-20	Friday	15:00-16:00

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