



Pune Knowledge Cluster

presents

LEAD: Learn | Explore | Access | Discover


Hydrogen Microgrid & Skilling - Urja Udyami

Organized by	Pune Knowledge Cluster (PKC)
In Collaboration with	<i>h2e Power Systems Private Limited</i>
About LEAD	LEAD is an initiative of the Pune Knowledge Cluster , providing vocational exposure and networking opportunities to students. Students will learn about the 'Science and Technology' ecosystem in the Pune region which includes research institutions, startups, and industries, through study tours, field visits, and interactions with experts from diverse knowledge-driven sectors.
About h2e Power Systems Private Limited	h2e Power Systems (An Adar Poonawalla Backed GreenTech Startup), which is India's First, homegrown Greentech Company that has developed Electrolyser, Fuel Cell & e-Fuel technology in Maharashtra . For the last 15 years we have pioneered the Green Hydrogen ecosystem in the country. We take pride in the fact that we are a Maharashtra Based company and are working towards fulfilling the audacious 'Atmanirbharta' Vision of our Honorable Prime Minister Shri. Narendra Modi ji, to make India Energy Independent and Energy Secure.
Potential gains	<p>Skilling and job creation is a major theme of the Indian government to fill the gap and, in the process, boost income and demand in the economy. Indian companies are looking for skilled workers, technicians and engineers within the country and the skilling initiative shall help the domestic as well as overseas demand.</p> <p>Use: This microgrid kit uses an electrolyser to generate hydrogen from water through an electrolysis process. The generated hydrogen is then fed to a 100 W Proton Exchange Membrane (PEM) Fuel cell (FC). The load can be a DC bulb or an AC bulb of 100 W, or mobile charging, or running a fan.</p> <p>Configuration: The capacity is considered as small so that it can give a very simple demonstration of the new technology which is now called 'green hydrogen' and its application. Colleges may combine this combination with a solar PV cell of 100-300 W capacity, a battery, an inverter to convert DC to AC, and a storage vessel.</p> <p>Indigenous development: h2e has developed the electrolyser and fuel cell 100% in India, keeping all safety aspects for students and colleges.</p>



	<p><u>Key Takeaways:</u></p> <ul style="list-style-type: none"> ● Learn about hydrogen-powered MICROGRID ● Explore the different instruments used in the hydrogen value chain for installation, safety and understanding. ● Gain access to the different departments material science, manufacturing, sourcing, supply chain, purchase, project management, installation and commissioning ● Discover different career opportunities in the GH2 industry with expert interactions. <p><u>For College Faculty:</u> The colleges can install this basic kit to train the students and, during the campus rounds, can invite hydrogen-related companies to recruit trained engineers. The colleges can pursue engineering research projects and can apply for co-patents.</p>
<p>Special Highlights</p>	<p>During this study tour, participants will visit the factory of h2e Power Solutions Private Limited and see the technologies and products developed by h2e for the hydrogen value chain.</p> <p>A certificate of participation will be provided to every participant at the end of the visit.</p>
<p>Eligibility Criteria</p>	<ul style="list-style-type: none"> ● Open to Engineering College Professors (all branches) and Engineering Students. ● Faculty from other colleges with specializations in Physics, Chemistry, and Environmental Science. ● Entrepreneurs, including those from start-ups, are also encouraged to apply
<p>When</p>	<p>Friday, 7 March 2025 Time: 2.00 pm to 6.00 pm</p>
<p>Where</p>	<p>h2e Power Systems Private Limited, Pune</p>



<p>To Register</p>	<p>Registration Link: https://bit.ly/3MuveNL</p>  <p>Or Scan QR code</p>
<p>Fees</p>	<p>Limited seats only!</p> <p>Total fees for this visit (Inclusive of taxes): INR 590/ per participant <i>(The fees will include 18% GST, a registration kit and h2e collaterals)</i></p> <p>Steps to be followed for the payment:</p> <p>Step 1: Interested candidates can register using the form given below: https://bit.ly/3MuveNL</p> <p>Step 2: After the screening of applications; eligible candidates will be informed about their selection by email.</p> <p>Step 3: Selected candidates need to confirm their seat by paying the registration fee</p> <p>For any query, Contact Us Email- capacitybuilding@pkc.org.in Contact: +91 78238 92474</p>
<p>Terms & Conditions</p>	<ul style="list-style-type: none">● There are limited seats available.● The selection of candidates will be done based on the Statement of Purpose (SOP) submitted in the registration form.● The outstation participants need to arrange their own travel to h2e systems and back to their destination.● Fees once paid will NOT be refunded under any circumstances.● PKC reserves the right to accept, refuse or delay the registrations so as to optimize the composition of the group in order to maximize the learning experience of all participants.



Tentative Visit Schedule	
02.00 PM - 02:30 PM	Arriving of guests at h2e systems and registration
02:30 PM - 02:45 PM	Presentation by h2e - Mr. Siddharth Mayur
02:45 PM - 03:00 PM	Presentation by PKC - Dr. Priya Nagaraj
03:00 PM - 03:30 PM	Hydrogen quiz
03:30 PM - 04:00 PM	Demonstration of the Microgrid
04:00 PM - 04:45 PM	Round table discussion - focus GH2 value chain skilling (Training programs h2e offered - students/faculty)
04:45 PM - 05:30 PM	High tea and snacks
05:30 PM - 05:45 PM	Vote of thanks and disperse