



Smart Microgrid Training System





Overview

Master microgrid planning using HOMER and power management tools through courses on edX, Udemy, and EMMA, covering both AC/DC systems and real-world applications. Explore power quality challenges in microgrids, focusing on voltage harmonics and unbalance. The IEEE Academy on Smart Grid takes existing material about this key subject of interest and combines it with newly developed materials so the learner is guided through a logical continuous path that better ties the concepts and materials together. You can build skills in grid optimization, data analytics for energy consumption, and real-time monitoring of electrical systems. Many courses introduce tools such as SCADA. Certified Microgrid Engineer (CMIE): Learn to architect resilient microgrids from requirements through protection coordination, DER integration, and control strategies.



Smart Microgrid Training System



10+ Microgrids Online Courses for 2026

Explore algorithms, methodologies, and tools for solving real-world energy management problems in microgrids and smart grids. Explore microgrid modeling, three-phase circuits, and power system ...

Certified Microgrid Engineer (CMIE)

Tonex offers Certified Microgrid Engineer, a 2-day course where participants master the fundamentals of microgrid design, including grid integration and load management.



Lucas Nülle

"Nowadays, the advent of smart grids has got everyone talking about power generation, transmission, distribution and the protection of electrical power systems as well as the efficient exploitation of ...

IEEE Academy on Smart Grid

Microgrids are considered a critical and enabling link in the transition from bulk power systems to smart distributed grids. This learning path will cover the fundamental elements of microgrid definitions, ...



[Smart Grid Trainers for Renewable Energy Training](#)

These training systems cover training concepts for renewable energies and integration into smart grids as well as classic power generation and distribution. This equipment set is the heart of the smart grid ...



[Microgrid Certification Training Online and Onsite](#)

We can adjust the emphasis placed on the various topics or build the Microgrid Certification Training course around the mix of technologies of interest to you (including technologies other than those ...



[Microgrid Core Knowledge , CareerCatalyst](#)

Whether you're new to the energy industry or looking to expand your technical understanding, this course guides you through core electrical concepts, infrastructure, policy, and microgrid applications.



[Certified Microgrid Specialist \(CMIS\) from Tonex, Inc. , NICCS](#)



Certified Microgrid Specialist (CMIS): Specialize in microgrid technologies with this advanced certification. Learn the intricacies of microgrid design, control, and integration with renewable energy ...



[Training Systems for Smart Grid and Micro Grid](#)

The Smart Lab: Safe and easy to design! Investigate intelligent power grids in the lab! The equipment sets for Smart Grid and Micro Grid can be combined with each other as required.

[Best Smart Grid Courses & Certificates \[2026\], Coursera](#)

Smart Grid courses can help you learn energy management, demand response strategies, and renewable energy integration. Compare course options to find what fits your goals. Enroll for free.





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