Georgia microgrid design

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This course provides an integrative understanding of PV systems, energy storage, and microgrids with technical and economic considerations.

Five weeks starting on May 2021, this interactive on-line course will be a combination of live sessions and pre-recorded material over the following period:

10 part days consisting of the following:

Saturday mornings (May 15, 22, 29, June 5, 12): 10:30 AM to 12:30 PM

This year, the course will be held live digitally, and you will have plenty of opportunities for interaction. Course materials will be available via a Learning Management System.

Students should bring their own laptop running Windows 7, 8, or 10 or a Macintosh laptop with at least 10 MB of free storage to allow for course material and simulation reports.

Registrants may withdraw from the course up to 2 weeks in advance with no penalty. After that a 15% fee is applied for withdrawing. Companies may substitute a student for a currently registered student up to 2 weeks in advance with no penalty. After that a 15% fee is applied for withdrawing.

In-depth coverage of the National Electrical Code (NEC 2017 and NEC 2020) will help those seeking work as a PV professional whether it be in design, sales, or business development. In addition to energy generation, loads will be examined particularly in the context of microgrids. Some sustainable building practices will be explored to better understand how dealing with load consumption works hand-in-hand with generation.

Lessons dive into best practices for site preplanning, technology system components, system sizing, mechanical integration, electrical integration, utility connection, inspection and commissioning, operations/maintenance/troubleshooting, medium-voltage interconnection issues, and economic analysis.

The course covers grid-interactive, standalone, and hybrid systems.

NEC requirements for design and installation are highlighted including overcurrent protection, disconnects, labeling, conduit, and conduit sizing. Special focus is given on proper plan sets including one-line electrical diagrams. The course will employ spreadsheets, modeling tools, and contemporary simulation software (e.g. Helioscope, PVsyst, System Advisor Model, HOMER Grid, Retscreen) to allow for practical design. Some hands-on experience with high-end tools such as the PV Analyzer will be given.

The course provides the 40 hours for NABCEP"s PV Installation Professional accreditation as required from an accredited institution and is offered either on-premises at the Georgia Institute of Technology or via an established learning management system (LMS) platform. A certificate from Georgia Tech will be issued.

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