

Solar Grid-Tie eLearning| Inverters, Interconnection Codes & Grid-Tie Systems Training



eLearning Course: M20317

The Solar Grid-Tie eLearning course focuses on grid-tie inverters. Learners will study the operation of various inverters, the interconnection codes and standards for grid connection, and the types of grid-tie systems.

Teach Alternative Energy

What Types of Grid-Tie Systems Are Popular?

PV systems that connect to the utility grid are called grid-tie systems. There are two types: interactive systems and battery-backed systems. Interactive systems do not include batteries, while battery-backed systems do. If the electric grid is powered up, these two systems operate in the same way. They both supply loads with a combination of PV power and utility power. They also export power to the grid when the PV array produces more power than local loads require.

The operation of interactive and battery-backed systems differ when the electric grid goes down. A battery-backed system is able to supply power to critical loads from the batteries in the absence of utility power. An interactive system, on the other hand, does not supply power to the loads when there is no utility power. The reason that interactive systems, which do not have battery backup, stop supplying loads with grid power is the anti-islanding requirement imposed by all utilities. This requirement dictates that the inverter must not apply power to the grid while it is down. Since the output connections of an interactive inverter connect to both the loads and the grid, the loads also lose power while the inverter's output is disconnected.

Interactive eLearning

Solar Grid-Tie eLearning Features Multimedia Curriculum

Amatrol's unmatched [multimedia](#) utilizes text, audio, and stunning 3D animations that engage learners in theoretical knowledge and concepts. This thorough, exceptionally detailed curriculum is built to begin with the basics and steadily advance to more complex concepts. Through partnerships with key industry leaders and leading edge educators, Amatrol developed the right balance of knowledge needed to train learners to work in their chosen field.

Additional Info

Requires:

- Computer: [See requirements](#)

Options:

- Grid-Tie Learning System - Solar (85-GT1)

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