



Power Grid Party Building Micro Classroom

Can microgrids help prepare the workforce for a new energy economy?

This paper explains how microgrids help flip these problems into opportunities to prepare the workforce for the emerging new energy economy, while yielding low cost, reliable and clean sources of energy.

Are Siemens microgrids a good choice for community college students?

Infographic credit: Siemens Microgrids also provide community college students outstanding opportunities for training in technical jobs in the new energy economy. They have the potential to attract students back to the vital hands-on workforce.

Why do universities need a modular microgrid?

Fred James, National Business Director for Higher Education at Siemens, pointed out that this modularity also enables microgrid owners to adopt the latest technology as it becomes commercially available. "It is hard to predict which technologies will prove optimal to meet a university's carbon neutrality goal, often 30 years in the future.

Can a classroom be a net-zero energy building?

Homes, offices, stores and even schools can be net zero-energy buildings. Today we are going to redesign our classroom so that it is a net-zero energy classroom. The first step in designing a net-zero energy building, or in our case -- a classroom, is to make sure that everything that uses energy, uses it wisely and efficiently.

When should a microgrid be programmed to use market supply?

The microgrid is typically programmed to use market supply when it is cheaper than on-site generation. Further, during extreme pricing, such as the Texas example above, the microgrid can be programmed to shed load to avoid the need to purchase super-premium power supply.

How do you create a classroom design?

1. Give each group or student a design sheet and a set of the classroom items. 2. Hand out scissors and glue sticks. 3. Direct students to place all of their classroom items inside the classroom in the locations they think would be most appropriate, and to draw in windows and other doors or lights, etc. Some common item placements:

A microgrid is a local energy grid that can operate independently or in conjunction with the traditional power grid. It is comprised of multiple distributed energy resources (DERs), such as solar panels, wind turbines, energy storage ...



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