

Power grid safety micro-classroom activities



Overview

Here you'll find worksheets, experiments and activities, and tips to help teach the material found in the Electrical Safety World section of this website. Energy is Everything's 9-12th grade workshop, Teach Your Students to Become Smart-Energy Managers on Campus, covers the United States' energy system, energy resilience, and transition toward decentralized energy generation. With this, educators can design a classroom experience that encourages. The Microgrid Mastermind Educational Guide bridges the gap between gameplay and real-world energy systems. It introduces students to the fundamentals of the power grid how electricity is generated, transmitted, and delivered to our homes and businesses. Visit a solar powered house or a wind farm. Here are some ideas for how to use them with. Click the image above to view an introductory video on our YouTube Channel Students position power plants, poles, and a variety of buildings on the screen, then tap buildings to draw wires between them and light up their city.

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Current Offerings - Smart Grid for All

Virtual Grid Construction
Virtual Smart Homes
From Plant to Product
Entertainment Emporium
Hands-On Grid Construction
Hands-On Smart Homes
Hands-On Solar Community Kits
Hands-On Solar Farm Simulators
Smart Grid Subsets and Microsets
Students position power plants, poles, and a variety of buildings on the screen, then tap buildings to draw wires between them and light up their city. Students complete a series of challenges which take them through the historical development of the electrical grid, with simulated storms demonstrating the value of having a "smart" grid. The game is free to play. See more on [smartgridforschools](#)

Videos of Power Grid Safety Micro-Classroom Activities

Watch video 23:31 **ELECTRICITY SAFETY** - narrated presentation for KS2 children
Northern Powergrid 18.9K views
Watch video 3:46 **Electrical Safety**, KS2 Science, STEM and Beyond Explore Planet English 16.6K views
Watch video 4:19 **OSHA Electrical Safety: How To Prevent Electrical Hazards**. Safely.io 61.9K views
Watch full video **UK Power Networks**

Free Electricity Teaching

Resources , PowerUp - UK

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Access free curriculum-aligned teaching resources on electricity and safety. Download lesson plans, worksheets, and classroom activities for primary and ...

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Current Offerings - Smart Grid for All

Students complete a series of challenges which take them through the historical development of the electrical grid, with simulated storms demonstrating the value of having a "smart" grid.

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Teacher Guide Modeling Power Grids

Students use the model to develop explanations for how microgrids help keep the lights on in communities during power outages and explore some of the characteristics of microgrids that allow ...

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66410 Electrical Safety-SMART Curriculum Materials - National Grid

Here you'll find worksheets, experiments and activities, and tips to help teach the material found in the Electrical Safety World section of this website. The one-page worksheets review the key

principles ...

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Microgrid Project by Scienovate

This comprehensive, educator-designed project dives deep into the fascinating world of microgrids, empowering students to explore a solution with the potential to revolutionize the future of our power ...

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Interactive Activities , CREDC Education

This lesson is designed to allow middle-school age or older students (and others) to explore power and energy usage in the home. Most power comes from a power plant to the home through a system of ...

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Electric Grid Lesson Plan + Data and Hands-On Model

This electric grid lesson plan introduces students to how electricity moves from power plants to homes and buildings



using a clear sequence of discussion, vocabulary, data analysis, and an optional hands ...

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Empowering Students to Design Tomorrow's Microgrids Today

Teaching your students about centralized and decentralized energy systems equips them to participate in discussions about energy policy and allows them to make informed decisions based ...

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Free Electricity Teaching Resources , PowerUp - UK Power Networks

Access free curriculum-aligned teaching resources on electricity and safety. Download lesson plans, worksheets, and classroom activities for primary and secondary educators.

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Today I Learned About The Electric Grid

Local Grid Shape: Students explore the Energy Information Administration's maps of their local grid and consider how

it might have been designed differently.
Local Grid Source: Students explore ...

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An Educational Guide to Microgrid Mastermind , Growable , Nebraska

It introduces students to the fundamentals of the power grid how electricity is generated, transmitted, and delivered to our homes and businesses.

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<https://v4venison.co.za>

