

#STEMpowersOhio Design & Entrepreneurship Challenge: Reimagine Energy Production or Consumption to Improve your Community

OSLN's annual student design challenge is an opportunity for students to explore a real-world problem and use the design thinking process solve that problem.

The design challenge is conducted at the local level—in individual classes, grade bands, entire schools, or as part of an out-of-school program or club. Participants choose to work on the project over a week, a few weeks, or over an entire semester. At the conclusion of the organization's design challenge, an exhibition of participant work, sometimes called a local showcase, should be organized by the school or out-of-school program. At that event, each participating organization will select one representative team to submit their solution to be recognized at the OSLN statewide showcase.

Guidelines:

- This year's design challenge question is **"Reimagine energy production or consumption to improve your community."** Teachers or program leaders may refine the question to make it more age appropriate/relevant for their learners. The refined question must be tied to the overall topic of improving energy production or consumption.
- [Notify OSLN of your school or organization's participation in the Statewide Design Challenge](#), including the date of your school showcase. School showcases must be conducted by April 30, 2021—for your representatives be included in the statewide showcase.
- Participants should approach the problem by working through the steps of the design cycle. (Choose the version that works for your school)
- New this year: students may submit as individuals or teams. This should be decided by the school or organization.
- There is **not** an official rubric for the statewide design challenge. Schools should create a rubric for student deliverables (pitch and prototype).

Deliverables:

- Participating individuals or teams must:
 - Create a physical prototype of their solution. It does not have to be a fully functioning model, but students need to explain how it would work. If it can be operational, it should be.
 - Develop a 30 – 90 second pitch explaining the benefits of their solution. The [Young Entrepreneur Institute has a Pitch Toolkit](#) to help with this.
- Schools or out-of-school programs must:
 - Host a local student solution showcase. This is a virtual or in-person event where students share their solutions and get feedback from an authentic audience.
 - Select an individual or team to represent your school or organization in the OSLN Student Solutions Showcase.

- Schools or organizations identify the top three solutions from their local showcase. In early 2021, we will notify participating schools of the next steps to submit outstanding projects for participation in the Student Solutions Showcase in the spring.

Resources:

- Visit designchallenge.osln.org to register your school, find links to energy resources, learn how to run the challenge with your students and register for a variety of professional learning sessions.
- Check out our [Events](#) page to register for FREE support sessions

OUR PARTNERS

Highly effective design challenges rely on community organizations to provide content expertise and real-world learning experiences for students. We couldn't provide put on this year's program without the support of the following key partners:



OHIO OIL & GAS ENERGY EDUCATION PROGRAM



SUPPORTED BY

The #STEMpowersOhio Design & Entrepreneurship Challenge is presented with grant support from Constellation Energy and the American Electric Power Foundation, helping us expand our support to teachers.

