

Massachusetts Virtual Energy Conference for Educators

AUGUST 2ND-5TH, 2020 ON ZOOM

WHO SHOULD ATTEND?

- Educators interested in Energy!
- Science and STEM Teachers
- After school program leaders
- CTE teachers
- K-12 teachers
- Teachers needing ideas for virtual learning

WHAT'S INCLUDED?

- Conference Materials
- PDP Certificate
- Fun Prizes
- Grad Credit Available
- Massachusetts standards aligned curriculum
- Stipend, NEED Science of Energy and Energy Efficiency & Conservation Kits.

CONFERENCE DETAILS

Educators from across the state will come together for four days of virtual energy education. The conference will provide teachers with the most up-to-date information on all aspects of energy. Participants receive the training and materials to implement innovative hands-on energy units in their classrooms, multi-disciplinary teams, and after-school programs.

If you have questions or need assistance please email Wendi Moss at wmoss@need.org

APPLY NOW

THE CONFERENCE IS SPONSORED FOR TEACHERS BY OUR PARTNERS

WE ARE MASS SAVE®:



MASSACHUSETTS VIRTUAL ENERGY CONFERENCE FOR EDUCATORS

AUGUST 2-5, 2020 | AGENDA

SUNDAY, AUGUST 2, 2020

- 4:30 PM Welcome and Virtual Conference Orientation**
Learn more about MASS SAVE and its partners, the NEED Project and the plan for the conference. Meet your NEED facilitators this week and work in a break-out session to get to know fellow participants. The conference sessions are designed to improve your energy knowledge as a consumer, to provide you lessons and activities to return to the classroom, and to allow you to explore ways to integrate more energy into your classroom programs (virtual or in person).
- Zoom Orientation & Norms and Expectations
 - Facilitator Introductions
 - What's in your energy supplies box?
 - Experience Your Break-Out Rooms - Introductions
 - Introduce our Energy Scavenger Hunt Game! Throughout the conference, find all 10 energy source sidekicks on NEED's website. The first three participants to find all get a prize.
 - Energy Jeopardy
- 5:15 PM NEED Resources, Q&A, NGSS Connections, Pre-Assessment**
- 5:30 PM Adjourn**

MONDAY, AUGUST 3, 2020

- 8:50 AM Log In, Check Technology and Supplies**
- 9:00 AM Welcome**
- 9:15 AM Introduction to the Science of Energy**
- 9:30 AM Science of Energy Break-Out Sessions**
Small groups will work together to explore stations of the NEED Science of Energy Kit.
- 10:00 AM Prep Presentation of Station Content for General Session**
- 10:10 AM Science of Energy Round-Up!**
Groups share key content items from Science of Energy explorations.
- 10:40 AM Quick Break**
- 10:50 AM Light It Up!**
Participants participate in this challenge to Light It Up!
- 11:15 AM Teaching Energy Today**
Hints, Tips and Tools for teaching in today's classroom.
- 11:45 AM Exploring Energy Break-Out Sessions**
Session One and Two: Solar Energy
- Solar Energy 101: Nature Print Paper, UV Beads, Building a Solar Oven
- Session Three and Four: Wind Energy
- Wind Energy 101: Building an Anemometer and Wind Can Do Work
- 12:15 PM Wrap-Up and Afternoon Activity – Energy Expos**
Before tomorrow's session, using the Secondary Energy Infobook prep a quick poster, ppt, song or poem, to share at least 5 facts about your assigned energy topic.

TUESDAY, AUGUST 4, 2020

- 8:50 AM Login, Supplies Check, Technology Check**
- 9:00 AM Massachusetts Electric Connections – Understanding the Energy Mix of Massachusetts**
- 9:20 AM Sharing Your Expo Break-Outs**
- 9:45 AM Exploring Energy Break-Out Sessions**
Session One and Two: Solar Energy
- Solar Energy 101: Nature Print Paper, UV Beads, Building a Solar Oven
- Session Three and Four: Wind Energy
- Wind Energy 101: Building an Anemometer and Wind Can Do Work
- 10:45 AM Quick Break**
- 11:00 AM Speaker: Transportation Solutions in New England – Natural Gas and Electric Vehicles**
- 11:30 AM Stretch Break**
- 11:35 AM Understanding Energy Resources – Candy Collector**
- 12:00 PM Grade Level Break-Out Sessions**
Fun explorations, games, and activities for students by grade level. This session will include an opportunity to share best practices in both "in person" and "virtual" class-rooms by grade level.
- 12:30 PM NEED Resources and Q&A, Independent Learning Assignment (Home Energy Audit)**
- 1:00 PM Adjourn**

WEDNESDAY, AUGUST 5, 2020

- 8:50 AM Login, Supplies Check, Technology Check**
- 9:15 AM EdTech for Teaching Energy Virtually**
Thinking through what the classroom looks like this fall – and learning some great EdTech opportunities to use and share. *Flipped Classrooms, Flipgrid, EdPuzzle, Zoom, Google Classroom Tools and more*
- 9:45 AM Intro to Energy Efficiency and Conservation**
- 10:00 AM The Energy House Challenge**
Learn about efficiency, conservation and economic returns by building an energy efficient model home.
- 11:15 AM Announce Winners – and Quick Break**
- 11:30 AM Energy Efficiency Break-Out Sessions**
Session One: This Week in Energy Conservation, Energy Stories and More
Session Two: Energy Night Live
These activities allow for interdisciplinary integration of language arts skills. Groups make quick presentations about energy conservation at home and on the road.
- 12:15 PM Synthesizing the Conference Breakouts**
- 12:30 PM What's Next? Q&A, Post-Assessment, Evaluation and Kit Orders**
- 1:00 PM Thank You to our Sponsors and Adjourn**
- 1:00 PM Graduate Credit Participants Remain for a 10-minute session to discuss project for credit**