



Green Innovator's Expo

April 13th, 2019
At Iron Range Earth Fest
In Mt. Iron



Iron Range Partnership for
Sustainability (IRPS)

Grand Challenge: The United States has about 125 Million households – twice as many as a few decades ago. Along with this growth, our use of electronics is also going through the roof – computers, cell phones, gaming systems along with our refrigerators and TVs. On the Iron Range, we have about 86,000 households, each in need of electricity. If our population keeps growing, and the amount of electricity keeps going up, the electrical generating companies won't be able to keep up! - How can we generate more energy to meet our needs now and into the future or how can we reduce the energy we use?

Expo Expectations:

- Identify a solution to our Electricity Grand Challenge facing us. Your innovation should focus on new ways to generate electricity or reduce electricity for your house.
- Present your idea/s (poster and model) at the Iron Range Earth Fest on April 13th, 2019.
- Your ideas should follow the theme of “green” innovation - making the Earth, our community or the economy a better place.
- These may be developed and entered for competition by a single person or a pairing.
- All entries must be original, the sole work of the entrant(s) and should not be the work of someone else (including parents/guardians).
- All entries must have an entry form postmarked on/before **April 8, 2019**. Entry forms can be mailed or emailed (addresses are located on the bottom of the entry form).
- All entries must have an informational poster for the invention AND: A small-scale model of the invention, OR a prototype of the actual invention
- Entries will be judged on the following criteria:
 - Creativity
 - Originality
 - Practicality of the invention
 - Value/Benefit of the invention
 - Clarity of poster (information)
 - Quality of model/replica
- All entries must be presented at the Iron Range Earth Fest (April 13, 2019) by the entrant(s) for judging.
- Judging will occur on Saturday, April 13th from 10:00 AM to noon. If there is a scheduling conflict, the entrant(s) can opt to create index cards with one trivia question/answer on each card. These trivia cards must accompany the poster and replica/prototype.
- Prizes will be awarded for the top three places in each grade category:
 - Level I (grades 4-6),
 - Level II (grades 7-9) and
 - Level III (grades 10-12)In all levels 1st place = \$50, 2nd place = \$35 and 3rd place = \$25
- All entries (posters/models/replicas) must be picked up no later than 4:30 on April 13th at Merritt Elementary School. Doors will close at 5 PM.
- If you have any questions about this contest, expectations or entry procedures please contact Moe Benda via email (mbenda@d.umn.edu) or telephone (749-7776)

Think of sustainability like a three legged stool. For a community to be sustainable, the three elements of community, economy and environment all need to exist in a healthy holistic relationship. If one of the legs are too long or too short, it won't stand up, and this, our communities won't be sustainable for future generations.

Liability Release: all volunteers, employees and committee members will not have any responsibility for losses/damages of any kind that result from entry or participation in the contest or acceptance, possession or use of the prizes. By entering the contest you release the competition organizers, judges, schools, teachers from any and all responsibility or liability arising from/relating to: the contest, prizes, incomplete entries, late entries, internet/website delays, US postal delays, topographical errors in contest-related materials, human errors in connection with contest. I also give the right for any video or photos taken during the contest to be used for publications, media coverage and future advertising efforts.

GREEN INVENTOR'S CONTEST REGISTRATION - 2019

Date: _____ (Deadline is April 8, 2019)

Student Name(s): _____

Grade(s) in School: _____

School Name: _____ **Home-schooled?** _____

Parent/Guardian Name(s), Address(es) and Phone Number(s): please have both sets of information for partners

Parent Signature: I have reviewed the contest expectations and the liability release and agree to all contest rules.

Parent/Guardian Signature: _____ Date: _____

Parent/Guardian Signature: _____ Date: _____

STUDENT SECTION

Name of Invention: _____

What are you trying to solve with this innovation:

Please mail entry forms to: Moe Benda, Green Inventors Expo, 1001 Chestnut St. W, Virginia, MN 55792 **OR EMAIL** (mbenda@d.umn.edu)

To foster pre-engineering and design techniques that promote sustainability (economy, society or the environment) in the Iron Range Community.