

# National Grid Patch Program

## Information & Requirements

*Using information from National Grid's website for students and educators, [www.ngridenergyworld.com](http://www.ngridenergyworld.com), girls will learn about the power they have to make a difference. To earn the patch, girls must complete 2 out of the 4 activities.*

### Daisy

1. **What is National Grid? What do they do? What are some ways that they help others?** Visit [www.nationalgridus.com](http://www.nationalgridus.com). and learn about at least one way that National Grid helps the community.
2. **Read National Grid's e-book, Aunt Sarah and the Amazing Power.** What are some of the rules that you learned in order to practice electricity and natural gas safety? Create a poster to show others the importance of electrical and natural gas safety.
3. **Why is it important to conserve energy? What are some things we can do to help?** Look at the activity under Energy Efficiency. Print and decorate the energy tip cards for your home to help remind you and your family how to do your part to save energy. Create a second set for a friend and teach him/her what you learned.
4. **With the help of your leader, play the Make the Sustainable Choice game under Environment.** How did you do? Were you surprised by any of the answers? Share what you learned with your family.

### Brownie

1. **What is National Grid? What do they do? What are some ways that they help others?** Visit [www.nationalgridus.com](http://www.nationalgridus.com). and learn about at least one way that National Grid helps the community.

2. **Watch the Natalie & Gus Explore the World of Natural Gas video found under Videos in the Student section of the website.** What did you learn? Where is natural gas found? Why does gas smell? Create a poster to illustrate the many benefits of using natural gas.
3. **Read the Renewable Energy World e-book under Environment.** Learn about solar energy on pages 8-9. How does solar energy work? What are its pros and cons? Show your solar smarts by making solar oven s'mores:  
<https://www.stevespanglerscience.com/lab/experiments/solar-oven/>.
4. **Under Environment, complete the Calculator in the Games section.** What did you learn? Isn't it amazing what a huge difference even the smallest change can make? Together with your troop, decide upon several small changes you will make at home for the next month. Calculate the impact your changes will have. What did you find? Start a campaign in your Service Unit to get others to make small changes for a big impact.

## Junior

1. **What is National Grid? What do they do? What is the Cinderella program? How does it differ from the Green Cinderella program?** With the help of your troop, research examples of "green" technology used in these programs. What type of green technology do you think is the most important and why? Create an advertisement for a type of green technology to convince others to make it a part of their home.
2. **Under Energy Efficiency, read Save Energy at Home.** Create a checklist of the ideas listed to conserve energy. With the help of your parents, see how many of the items you can complete.
3. **Read the Energy Efficiency World e-book under Energy Efficiency.** What is the greenhouse effect? What does it mean to us? Complete the activity on page 11 by creating your own greenhouse. Present your creation to another troop.
4. **Take the Energy Saver quiz at the end of the Renewable Energy World e-book under Environment section.** How many of the questions did you answer "Sometimes"? How many did you answer "Never"? Review your answers and make an agreement with your family to change at least 4 of your answers to "Always".

## Cadette

1. **What is National Grid? What do they do?** Visit [www.nationalgridus.com](http://www.nationalgridus.com). Read about the Cinderella program under the Community section of the website. What did you learn? How does it differ from the Green Cinderella program? With your troop, research examples of “green” technology used in these programs. Redesign your home adding elements of green technology.
2. **With the help of an adult, complete the Home Electrical Safety Inspection Checklist and Home Natural Gas Safety Inspection Checklist found under Home Inspections in the Student section of the website.** How many items needed to be fixed? Were you surprised by what you found? What did you learn? Share the checklist with at least one other family you know and encourage them to complete it too.
3. **What is the “Engineering our Future” program?** Read the booklet located at [www.nationalgridus.com](http://www.nationalgridus.com). Do you have the same perception of engineering? What do you think young people need to know about engineering to change their opinion? Design a campaign to encourage others to take a second look at engineering. You can design a poster, video, poem or speech. Present your campaign to others and get their feedback.
4. **Read the Energy and the Environment e-book under Environment.** Look at the mosaic created by artist Remi Rubel and others. Can you believe a thing of such beauty was made of 8,500 bottle caps? Create your own work of art made of recycled materials.

## Senior & Ambassador

1. **What is National Grid? What do they do?** Visit [www.nationalgridus.com](http://www.nationalgridus.com). Read about the Cinderella program under the Community section of the website. What did you learn? How does it differ from the Green Cinderella program? With your troop, research examples of “green” technology used in these programs. Design a green building of your own, implementing green technology and recycled materials. Present your design to your troop and vote for the best design.
2. **What is the “Engineering our Future” program?** Read the booklet located at [www.nationalgridus.com](http://www.nationalgridus.com). Do you have the same perception of engineering? What do you think young people need to know about engineering to change their opinion? Design

a campaign to encourage others to take a second look at engineering. You can design a poster, video, poem or speech. Present your campaign to others and get their feedback.

3. **Read the Energy and the Environment e-book under Environment.** Look at the mosaic created by artist Remi Rubel and others. Can you believe a thing of such beauty was made of 8,500 bottle caps? Create your own work of art made of recycled materials.
4. **Read about the Public Service Award on [www.nationalgrid.com](http://www.nationalgrid.com) under Community.** What are the award requirements? What have some of the past awardees accomplished? If you were going to apply for the Public Service Award, what would your project be about? Together with your troop, brainstorm a project idea that you think would be worthy.