# NAYGN Drawing Contest 2015

**1. Slide 1: Introduction**

* My name is…
* North American Young Generation in Nuclear is an organization of young professionals in the nuclear industry.
* Today we are here to discuss nuclear energy.

**2. Slide 2: What is nuclear energy?**

* Nuclear energy is a way to use atoms to make electricity.
* Why is electricity important?
* What do you use electricity for?

**3. Slide 3: What is an atom?**

* Atoms are the building blocks of matter.
* Atoms are super tiny. [start animation] Atoms are smaller than ants. Atoms are smaller than a grain of sand. Atoms are so small, we need a special microscope to see them.

**4. Slide 4: Atoms have a lot of energy!**

* Atoms are made of protons, neutrons, and electrons.
* For being so small, atoms have a lot of energy.

**5. Slide 5: What is energy density?**

* Energy density refers to the amount of energy in a certain space.
* Analogy: If you had a box of feathers and a box of bricks, which would weigh more?

 A box of bricks!

 Why? This is because the bricks have a higher density.

 Like bricks, atoms have a high (energy) density.

**6. Slide 6: Nuclear Energy Density**

* A nuclear fuel pellet is about the same size as your pinkie finger and it has a lot of energy. [great time to pass around a mock fuel pellet]
* These are some other types of fuel we use to make electricity (oil, coal, natural gas).
* A nuclear fuel pellet has the same amount of energy as 1 ton of coal.
* Nuclear fuel stores a lot of energy in a very small package.

**7. Slide 7: Why does energy density matter?**

* Nuclear power plants are very small compared to the amount of electricity they make. They save space!
* A megawatt is a measure of power. A hospital requires a lot of power (or electricity) which could be provided by a small amount of nuclear fuel or a large number of windfarms.

**8. Slide 8: Atoms have a high energy density**

* Nuclear energy (which comes from atoms) packs a lot of energy. It has a lot of force/power! (Similar to a punch from a boxer has a lot of force/power)

**9. Slide 9: 2015 Drawing Contest**

* Please draw a picture to be entered into the drawing contest.
* Prizes include: T-shirt, nuclear science books, pizza party, and science kits.

**10. Slide 10: Nuclear Energy Packs a Punch**

* Here are some ideas of what to draw.

**11. Slide 11: Questions?**

* These are some pictures from previous drawing contests.
* Thanks!

**12. Slide 12: Ideas for Drawings**

**13. Slide 13: Start of optional slides**

 Feel free to add these more advanced/complicated slides if needed

**14. Slide 14: How else can electricity be made?**

* How else do we make electricity? Natural gas, coal, wind, solar, hydroelectric

**15. Slide 15: How does a nuclear power plant work?**