



HS. Engineering Design

Sample Driving Question:

“Which energy source is right for our community?”

Relevant Standards:

- HS-ETS1-1. Analyze a major global challenge to specify qualitative and quantitative criteria and constraints for solutions that account for societal needs and wants.
- HS-ETS1-2. Design a solution to a complex real-world problem by breaking it down into smaller, more manageable problems that can be solved through engineering.
- HS-ETS1-3. Evaluate a solution to a complex real-world problem based on prioritized criteria and trade-offs that account for a range of constraints, including cost, safety, reliability, and aesthetics as well as possible social, cultural, and environmental impacts.

Annual Report Supplemental Resource Stories:

- [Building a Sustainable Future One Power Plant at a Time](#)
- [End of Coal](#)
- [Reliability for Community](#)
- [Traveling the Distance](#)
- [Melting the Snow for Small Business](#)
- [Sprinting on the Snowmelt](#)
- [Working with Gravity](#)

Additional HBPW Resources:

- [Tours of Water Treatment Plant or Water Reclamation Facility](#)
- [SROI Report](#)
- [SROI Presentation](#)
- [Visual Assets](#)

About this resource:

Holland Board of Public Works is a strong advocate for educating students on where their utilities come from and how they are provided. We believe that providing context on what is happening in their community will help them to become community advocates and engaged citizens.

We have provided some ways in which our stories can supplement state standards, but we invite you to explore the stories and see in what other ways these topics might serve as a resource in your classroom. More information can be found online at <http://annualreports.hollandbpw.com/annualreport2016/article/educator-resources>