

## Episode 4: Carbon Sources - Coal

### **QUESTION: What is the future of coal-powered electricity?**

**Before you view Episode 4**

#### **Activity 1: Necessary Electricity Icons**

Increase your visual literacy and “warm up” by drawing images or icons for “necessary electricity” usage. How do we use electricity in our homes, healthcare, commerce, and public services. Share your icons with the class.

| <b>Necessary Electricity at Home</b> | <b>Necessary Electricity for Healthcare</b> | <b>Necessary Electricity for Business/Agriculture/ Industry</b> | <b>Necessary Electricity for City Services like cleaning water</b> |
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|                                      |   |   |  |

Share your ideas/work with one or more classmates. Did sharing generate more necessary electricity uses? Add or redraw using this new shared information.

## **Post-Video-Viewing Activities**

### **Activity 2: Coal's Role in Past and Future Sketchnote**

Think about how life changed when people started burning coal. Factories sprung up near coal mines. Cities were built to accommodate miners and factory workers. Travel became easier. Fill in the "Past" section with images and words.

**PAST: What role did coal play in the past that changed the world?**

**1. How might life have changed for individuals?**

**2. How might trains and boats have influenced people's lives by moving people and things?**

**3. Mines and factories created jobs for people away from farms. How might that have changed lives?**

**Activity 3:**

Watch TED Talks – How Coal made us rich and why it needs to go: [https://ed.ted.com/lessons/how-coal-made-us-rich-and-why-it-needs-to-go?theme\\_id=earth-school-2023](https://ed.ted.com/lessons/how-coal-made-us-rich-and-why-it-needs-to-go?theme_id=earth-school-2023)

Think about nations that are currently building their first power plants and connecting their citizens to electricity. In a group or individually, go back to your sketchnote(s) in Step 1: Necessary Electricity. Prioritize what is “necessary electricity.” What do you think are the top 5 electricity needs for developing nations. Why?

Discuss your answers in a pair. Then have a group discussion about the role of electricity in developing nations. What is the future of coal-powered electricity?

