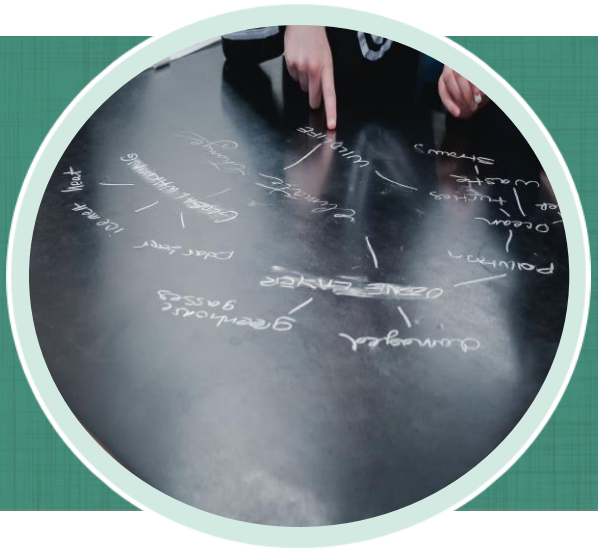
Decoding Carbon



#DECODINGCARBON
Activity: Negative Externality Game – Collective Action and Climate Change

Learning Outcomes

By the end of this activity learners will:

- Learn that there are no clear and easy policy answers- there are no policies that meet all potential criteria for 'good' climate change policy
- Learn to think critically about climate policy options when they read about them in the media, and when presented by governments and stakeholders as preferred policy solutions

Curriculum Connections

Alberta

- Grade 10 Science
- Grade 10 Social Studies
- Grade 11 Social Studies

British Columbia

- Grade 10 Science
- Grade 10 Environmental Science
- Grade 11 Environmental Science
- Grade 12 Environmental Science

Ontario

- Grade 10 Science
- Grade 12 Canada & World Studies

Length of Activity

1.5 – 2 hours

Materials List

- Topic Backgrounder
- Pembina Climate Policy Simulator Worksheet
- Marking Rubric
- Internet Enabled Device

Activity: Step 1

Review the Climate Policy Options Infographic with class **(15 minutes)**

Activity: Step 2

Conduct the simulation with class **(60 – 90 minutes)**

1. In groups, students will learn about the basic constructs of some of the climate change policy tools that are often supported by regulators and stakeholders by using the Pembina Institute's Energy Policy Simulator. Click here to launch the simulator. Take a few minutes to explore the simulator **(10 minutes)**
2. Students will download the "Pembina Climate Policy Simulator Worksheet.xlsx" provided and complete the simulation activity summarized on the "Pembina Simulator Activity" tab. (**45 – 60 minutes)**

Activity: Step 3

After the simulator activity, students will break into groups to reflect on the exercise, exploring 'pros' and the 'cons' of each of these policy tools they utilized during the simulation. **(15 minutes)**

Other resources:

Teachers may also modify this activity to use a different simulator available online, such as one available by En-ROADS.