

# CURRICULUM ALIGNMENT – Costs & Benefits of Electricity Generation

## Nova Scotia

Grade	Course Name and Number	Topic	Specific Outcome
9	Science 9	Electricity, Energy and the Environment	Make informed decisions and propose a course of action on science, technology and social issues, including human and environmental needs for electricity and energy (113-9, 113-13).
11	Electro-technologies 11	Module 2: Power Distribution and Conversion	<b>Specific Curriculum Outcome:</b> Demonstrate an understanding of the environmental impact of a range of power generation systems.
11	Energy, Power and Transportation Technology 11	Unit 4 - Nature and Sources of Energy	<b>Specific Curriculum Outcome:</b> Describe how energy originates and explain how it is converted into controlled forms used in residential, industry, business, and transportation situations.
11	Energy, Power and Transportation Technology 11	Unit 4 - Nature and Sources of Energy	<b>Specific Curriculum Outcome:</b> Identify the different forms of technology used to generate wind energy and describe the inherent potential and problems.
11	Energy, Power and Transportation Technology 11	Unit 4 - Nature and Sources of Energy	<b>Specific Curriculum Outcome:</b> Discuss the importance of hydroelectric energy and identify and describe one example in Nova Scotia.
11	Energy, Power and Transportation Technology 11	Unit 5 - Power Generation, Transfer, Control and Conservation	<b>Specific Curriculum Outcome:</b> Describe how Nova Scotians produce power from the three basic energy source groups.
12	Physics 12	Radioactivity: Fission and Fusion	<b>Specific Curriculum Outcome 214-15, 215-4, 215-5:</b> Identify, develop, present and defend a position or course of action based on identifying multiple perspectives that influence the issue, and on interpreting data and the relationship among variables.
12	Physics 12	Radioactivity: Fission and Fusion	<b>Specific Curriculum Outcome 118-2, 118-4:</b> Analyze and evaluate, from a variety of perspectives, using a variety of criteria, the risks and benefits to society and the environment of a particular application of scientific knowledge and technology.