CURRICULUM ALIGNMENT – Baseload vs. Peak Demand

Nunavut

Grade	Course Name and Number	Unit	Outcome
10	Science 10	Unit A: Energy and Matter in Chemical Change (Nature of Science Emphasis)	**Attitude Outcome (Stewardship):** Demonstrate sensitivity and responsibility in pursuing a balance between the needs of humans and a sustainable environment.
10	Science 10	Unit D: Energy Flow in Global Systems (Social and Environmental Contexts Emphasis)	**Specific Outcome 4:** Assess, from a variety of perspectives, the risks and benefits of human activity, and its impact on the biosphere and the climate.
10	Science 10	Unit D: Energy Flow in Global Systems (Social and Environmental Contexts Emphasis)	**Attitude Outcome (Stewardship):** Demonstrate sensitivity and responsibility in pursuing a balance between the needs of humans and a sustainable environment.
10	Science 10	Unit D: Energy Flow in Global Systems (Social and Environmental Contexts Emphasis)	**Skill Outcome (Analyzing and Interpreting):** Compile and display, by hand or by computer, evidence and information in a variety of formats, including diagrams, flow charts, tables, graphs and scatterplots.
10	Science 10	Unit D: Energy Flow in Global Systems (Social and Environmental Contexts Emphasis)	**Skill Outcome (Analyzing and Interpreting):** Propose alternative solutions to a given practical problem, identify the potential strengths and weaknesses of each, and select one as the basis for a plan.
10	Science 10	Unit D: Energy Flow in Global Systems (Social and Environmental Contexts Emphasis)	**Skill Outcome (Communication and Teamwork):** Select and use appropriate numeric, symbolic, graphical and linguistic modes of representation to communicate ideas, plans and results.
10	Science 10	Unit D: Energy Flow in Global Systems (Social and Environmental Contexts Emphasis)	**Skill Outcome (Communication and Teamwork):** Develop, present and defend a position or course of action, based on findings.
12	Science 30	Unit C: Electromagnetic Energy	**Specific Outcome 30–C1.7k:** Describe electrical energy in kilowatt hours and joules, using the equation Ee = Pt for electrical energy and the equation P = VI for power.
12	Science 30	Unit C: Electromagnetic Energy	**Specific Outcome 30–C2.3sts:** Explain how the appropriateness, risks and benefits of technologies need to be assessed for each potential application from a variety of perspectives, including sustainability.
12	Science 30	Unit D: Energy and the Environment	**General Outcome 1:** Students will explain the need for balancing the growth in global energy demands with maintaining a viable biosphere.

12	Science 30	Unit D: Energy and the Environment	**Specific Outcome 30–D1.3k:** Apply the concept of sustainable development to increasing the efficient use of energy.
12	Science 30	Unit D: Energy and the Environment	**Specific Outcome 30–D1.4k:** Explain the need to develop technologies that use renewable and non-renewable energy sources to meet the increasing global demand.
12	Science 30	Unit D: Energy and the Environment	**Specific Outcome 30–D2.1sts:** Explain that decisions regarding the application of scientific and technological development involve a variety of perspectives, including social, cultural, environmental, ethical and economic considerations (evaluate the environmental and economic implications of energy transformation technologies).
12	Module ENM3010	Energy & The Environment	**Module Learner Expectation:** Describe the social, economic and environmental significance of energy development.