

Why is Renewable Energy Important?

ELA Multi-genre Unit

Driving Question	Suggested Resources	ELA Mini-Lesson Ideas for Writing & Representing
<p>Why is renewable energy important?</p>	<p>Speech Analysis: Greta Thunberg at Youth4Climate Summit 2021 in Milan</p> <p>Greta Thunberg's Full Speech to World Leaders at the UN Climate Action Summit</p>	<p>Analyze Thunberg's persuasive speaking strategies. For example, Analyze her use of:</p> <ul style="list-style-type: none"> • logos, pathos, ethos • physical characteristics of speech (e.g.: eye contact, hand gestures, posture.); and • voice (e.g.: tone, pace, volume). <p>Review these persuasive strategies with a free resource - <u>Ethos Pathos Logos</u> chart from TeachersPayTeachers' <i>Creativity and Assessment in ELA</i> site: https://tinyurl.com/2urjx3me</p> <p>Note-Taking: Assist students in developing note-taking skills by using one of the following graphic organizers: TED Talk Graphic Organizer: https://tinyurl.com/yp8h2ew2 or free from TeachersPayTeachers' <i>Teach Me I'm Yours:</i> https://tinyurl.com/2p82dd3z. Consider comparing both speeches by dividing each section of the template in two.</p> <p>Personal Response: Write a personal response to the text, supporting your argument with examples from the text and your experience and/or knowledge of the world. (Journal entry, mind map, exit slip, review, etc.)</p> <p>Sample Exit Slip Questions: What was the speaker's purpose? What attitudes and values underpin the message? Summarize this speech in 3 sentences (beginning/middle/end). Identify 2 relevant questions you're left with after hearing this speaker. Evaluate the efficacy of the speaker –</p>

		<p>did the speaker’s voice, tone, and topic connect with you? Why or why not? How does the text represent age, culture and/or gender? What assumptions does the text make about each?</p> <p>3 – Things I Learned Today 2 – Things I Found Interesting 1 – Question I Still Have</p>
	<p>Podcast: “The Future of Nuclear Energy” – MIT Energy Initiative “Renewable Energy Trends”- MIT Energy Initiative</p>	<p>Write a letter to Thunberg, sharing your reactions to the text and/or asking questions you may have.</p> <hr/> <p>Listen critically to identify the speakers’ main argument and supporting details.</p> <p>(Note-Taking Template)</p> <p>Listen critically to determine whether this article provides a balanced view of the subject. Identify any examples of bias that may be present.</p> <p>(Note-Taking Template) Cross-curricular Doodle Notes: https://www.doodlenotes.org/</p> <p>As you listen, use a doodle note-taking guide to sketch illustrations of what you visualize, record keywords or phrases, and record any questions that come to mind. (Examples available on</p> <p>(Note-Taking Template)</p> <p>Write a personal and/or critical response to the text, supporting your argument with examples from the text and your own experience and/or knowledge of the world.</p>
	<p>Infographic Analysis: Infographic Analysis of Global Renewable Energy</p>	<p>Analyze authors’ use of text features to construct meaning.</p>

	<p>Data</p> <p>Learn about renewable energy sources within the province of NB.</p> <p>The Ultimate Fast Facts Guide to Nuclear Energy</p>	<p>Non-fiction Text Features Checklist: https://www.education.com/worksheet/article/nonfiction-text-features-checklist/; https://teachingmadepractical.com/thank-you/ (suited for middle school)</p> <p>Compare and contrast local and global data.</p> <p>Read to comprehend and draw conclusions:</p> <ul style="list-style-type: none"> • What are New Brunswick’s strengths in terms of renewable energy? • What opportunities exist for improvements to New Brunswick’s renewable energy resources?
	<p>Read-Aloud: <i>The Boy Who Harnessed the Wind</i></p>	<p>Read-Aloud Book Study Guide available on the COE Energy Website</p>
	<p>Non-Fiction Articles: “Canada – A Global Leader in Renewable Energy”</p> <p>“Renewable Energy – Government of Canada”</p> <p>“Canada’s Race to Net Zero and the Role of Renewable Energy”</p> <p>“Iceland’s Sustainable Energy Story: A Model for the World?”</p> <p>“Greta Thunberg Scolds Leaders About Climate Change in U.N. Speech” (accessible through free membership to Newsela)</p>	<p>Write a personal and/or critical response to the text, supporting your argument with examples from the text and your own experience and/or knowledge of the world.</p> <p>Read to identify the author’s main argument and supporting details.</p> <p>Read to identify bias in writing.</p> <p>Read and make text-to-self, text-to-text, and text-to-world connections.</p>
	<p>Art Analysis: “17 Interesting Renewable Energy Sculptures”</p> <p>“5 Renewable Energy Sources and the Art They</p>	<p>View/read the artwork to make inferences about the artists’ intentions based on prior knowledge and the artists’ use of text features.</p>

	Inspire	<p>Through writing or speaking, share your personal and critical response to the artwork. Be sure to support your arguments with specific examples from the test.</p>
		<p>Research one form of renewable energy and design an original piece of art (e.g. photograph, sketch, painting, sculpture, dance, etc.) to represent your understanding.</p>

Writing & Representing Choice Board

Informational Texts		Literary and Lyrical Texts	
<p>Research the benefits of renewable energy and represent your understanding in the form of an original infographic.</p>	<p>Research the benefits of one or more forms of renewable energy and create an original PowerPoint or Prezi presentation. Be sure to use point form text and relevant images in your slides.</p>	<p>Create an original editorial cartoon highlighting your understanding of the controversy around using nuclear energy. Your opinion should be made clear through your use of word choice, images, labelling and captions.</p>	<p>Create an original comic strip or graphic novel excerpt</p>
<p>Research sources of renewable energy and create a map representing what New Brunswick would look like if it fully embraced all the resources at its disposal. (Extension: Create an interactive map with links to with supporting research.)</p>	<p>Research the one form of renewable energy and create a pros and cons list.</p>	<p>Write a fable with a clear moral, highlight the dangers of not embracing renewable energy.</p>	<p>Write original children's book to help children understand the importance of renewable energy. Remember your audience in your choice of words and images.</p>
<p>Create an original TV commercial advertising the benefits of one form of renewable energy. Remember to use persuasive language, voice, and images to support your argument.</p>	<p>Write and deliver a persuasive speech in which you address the benefits of embracing renewable energy.</p>	<p>Write, perform, and record a radio jingle promoting the use of renewable energy in your community and/or province.</p>	<p>Write and perform a skit bringing to life the benefits of renewable energy. Remember to consider your word choice, tone, and posture in communicating your attitude towards renewable energy.</p>

<p>Write a letter or email to a local member of parliament encouraging them to invest in renewable energy.</p>	<p>What questions do you still have about renewable energy? Write 5 thought-provoking interview questions that you would like to ask someone who works in the energy sector.</p>	<p>Write a ballad telling the history of renewable energy in New Brunswick. (Extension: Create a music video to accompany your original lyrics and music, showing persuasive images to support your song's message.)</p>	<p>Create an original drawing, painting, or sketch highlighting the beauty of one of our many renewable energy sources.</p>
<p>Based off your research, create a to do list for the New Brunswick government, considering the steps that could be taken to better embrace renewable energy in our province.</p>	<p>Write an editorial article highlighting your opinion of New Brunswick's use of renewable energy. Be sure to cite specific examples from your research to support your opinion.</p>	<p>Create a wanted ad that highlights the need for more renewable energy.</p>	<p>Write an original poem or song reflecting your personal feelings about renewable energy.</p>
<p>Research local and national sources of renewable energy. Write a newspaper article highlighting the benefits.</p>	<p>Create a myth vs. fact chart clarifying common misunderstandings about renewable energy.</p>	<p>Write an original short story highlighting a protagonist(s)' experience with a renewable energy conflict and the strategies they used to overcome it.</p>	<p>Create an original board game or card game that will teach players about the benefits of renewable energy.</p>

Common Science Framework K-12 Outcomes

These are some of the ones I thought might connect to some of the information / work. I had used them in different sections...

- respond constructively to the questions posed by other students
- listen attentively to the ideas of other students and consider trying out suggestions other than their own listen to, recognize, and consider differing opinions
- willingly consider changing actions and opinions when presented with new information or evidence
- 118-10 propose courses of action on social issues related to science and technology, taking into account an array of perspectives, including that of sustainability
- 213-7 select and integrate information from various print and electronic sources or from several parts of the same source
- open-mindedly consider non-traditional approaches to science

English Language Arts General Outcomes 9-12

GCO#1 – Students will build understanding by listening to, reading, and viewing a range of spoken, written, and visual texts representing all voices.

GCO#2 – Students will respond personally and critically to the works of authors, creators, illustrators, and speakers.

GCO#3 – Students will speak, write, and represent to learn about self, others, and the world.

GCO#4 – Students will create texts, collaboratively and independently, for specific audiences and purposes.