

# Project: Terra Nova (New Earth)



The year is 2050; [overpopulation](#) and declining air quality threatens all life on Earth. Scientists discover a [temporal rift](#) permitting human transmission they initiate a series of "pilgrimages" to a [parallel "time stream"](#) resembling Earth's Palaeogene Period. The colony is named "Terra Nova" for "New Earth" or "New World" in [Latin](#)

You have been chosen for your critical thinking and teamwork expertise to the planning team. The colony places enormous emphasis on environmental responsibility. This time we need to structure society in a more connected way within the biosphere.

Your job will be to plan alternative ways for humans to meet their basic needs, and advance technology, in a sustainable manner on this new start.

Your first goal is to establish a source of fuel ( energy) to build the colony. You will have to explore the best environmental technologies that presently exist on Earth, and present your finding back to the planning committee about why your plan would be the best way to energize your new colony.

Some possible energy methods you could explore could be: hydrogen fuels cells, solar electric, biofuel, wind generation (windmills), geothermal, hydroelectric, etc.

**Presentation guidelines:**

The presentation can be made using Microsoft PowerPoint, Google Presentation, Prezi, or other school compatible presentation software.

**1.) Title page with your name and related graphics (10marks)**

**2.) Questions your presentation must answer:**

**a.) What is your technology? Describe it in as much detail as possible. (20 marks)**

**b.) Why is your choice of energy technology a good choice for a sustainable new future earth? (10marks)**

**3.) Reference to sources of information in a bibliographic APA format. (example of this style of bibliography can be found at this site: look for the appropriate source style eg. webpage, book, article, etc (10 marks)**

: <http://library.concordia.ca/help/howto/apa.php>

**4.) Remember you are presenting this to your peers. A working model would be the best way to see how the technology will work. Create a working model, to show your peers how this technology could be used. Check with Mr. Wessner before you build any models, or if you require some project guidance, and/or resources.**

**This model must be well planned**

**a.) Create a drawing or blueprint of your model. This can be made using Paint, Google Sketch up, Google draw, or other electronic drawing tools, or ob blueprint paper. (15 marks).**

**b.) Create a model using Lego, wood, papier-mâché, or a scientific model to show how it will work. If possible research and create a functioning model to show the group(25 marks)**

**c.) legend and/or signage to label and explain how the model works. (10 marks)**