# Assignment Summary

For this assignment, you will first research energy resources in your area. Next, you will gather information about the political, economic, and environmental effects of the worldwide distribution and use of the resources you use in your community. Then, you will develop a long-term sustainability plan for your community. Finally, you will create a multimedia presentation of your sustainability plan.

Background Information

Many states and localities have a number of renewable and nonrenewable resources. Renewable resources include those that can be replaced faster than they are used: solar power, wind power, timber, and oxygen are just a few examples. Nonrenewable resources cannot be easily replaced. They are used at a faster rate than they are created. These include oil, natural gas, coal, minerals, and precious metals.

Many states, municipalities, and businesses have sustainability plans. These are guidelines to avoid depletion of natural resources to maintain balance in Earth’s biological systems. As Earth’s population increases, humans will need to continually work to minimize their impact on the planet’s resources. A sustainability plan outlines specific actions and goals that will aid in this important work.

On a global scale, countries create their own sustainability plans because the global distribution of resources have political, economic, and environmental effects. Their sustainable plans help them manage resources and the effects of using these resources. The global distribution of resources also affect states and communities. Sustainability plans involve details outlining how political, economic, and environmental issues will be addressed.

Materials

* Computer with internet access
* Multimedia software
* Resources (print and/or online)

The following are suggested online resources:

**Resources**

* US Energy Information Administration, US Energy Mapping System <https://www.eia.gov/state/maps.php?src=home-f3>
* US Energy Information Administration, US Energy Facts Explained <https://www.eia.gov/energyexplained/?page=us_energy_home>
* *Renewable Energy Resources, A Research Guide for Students,* <http://www.aresearchguide.com/energy.html#general>
* US Department of Energy, energy.gov
* Website for your state’s department of natural resources
* <https://www.thoughtco.com/resource-distribution-and-its-consequences-1435758>
* http://www.eschooltoday.com/natural-resources/distribution-of-natural-resources.html

**Sustainable Energy Plans**

* <https://www.terrapass.com/sustainable-energy-plan>
* <http://www.sustainabilityroadmap.org/strategies/planenergy.shtml#.WXDgCYjyvIU>
* <https://www.bouldercounty.org/environment/sustainability/sustainable-energy-plan/>
* https://green.harvard.edu/campaign/our-plan

# Assignment Instructions

For this project, you are expected to submit a multimedia presentation.

**Step 1: Prepare for the project.**

1. Read through the guide before you begin so you know the expectations for this project.
2. If there is anything that is not clear to you, be sure to ask your teacher.

**Step 2: Determine the renewable and nonrenewable resources in your area.**

1. Use the materials cited, plus other reputable sources (.edu, .gov, etc.) to determine what energy resources are found in your area.
	1. Make a list of these resources.
	2. Classify them as renewable or nonrenewable.
	3. Make note of all the sources you consult, online and print.

**Step 3: Research the impact of the local populations on resources and the effects of the global distribution and use of resources.**

1. Next use the materials cited, plus other sources to determine the impact of the local population on these resources and the effects of the global distribution of resources on your community.
2. You can use the following questions to help spur your thinking:
	1. What percentage of energy comes from this resource?
	2. What is the rate of use? How much is used per year?
	3. Is the resource projected to run out? If so, when will that be?
	4. Does acquiring this resource impact any other resource?
	5. How does the population affect the use of this resource?
	6. How does acquiring the resource impact the environment?
	7. How is this resource globally distributed?
	8. What factors affect how the resource is distributed globally?
	9. How does the global distribution of this resource affect the political and economic climate in my community or state? How does it affect the environment?

**Step 4: Develop a sustainability plan.**

1. Review the information on sustainability plans in the materials list to determine what you need to consider for your plan. Be sure to include these items:
	1. Types of resources available locally
	2. Current rates of resource use
	3. Impact on the environment to access and to use these resources
	4. Effect of the global distribution and use of these resources on the economic and political climate in your community
	5. A long-term plan for resource sustainability, including ideas for local or state governments to address any issues and effects of global distribution and use of resources
	6. Economic impact of your sustainability plan
2. Make sure you keep track of all the resources that you consulted, both online and hardcopy.

**Step 5: Create a multimedia presentation of your sustainability plan.**

1. Include a slide listing renewable energy resources in your area.
2. Include a slide listing nonrenewable energy resources in your area.
3. Include a slide detailing the environmental impact of obtaining and using these resources.
4. Include at least one slide detailing the impact of local populations on resources.
5. Include a slide describing how the resources are distributed globally.
6. Include a slide describing how the global distribution of these resources affect your community economically and politically.
7. Include your sustainability plan, making sure you have at least one slide about local and state governments and one slide about economic impact of this plan.
8. Include a slide that lists resources you used.
9. Include relevant images, graphics, and headings on your slides.

**Step 6: Evaluate your project using this checklist.**

If you can check each box below, you are ready to submit your project.

* Does your multimedia presentation include a title slide with your name?
* Does your multimedia presentation show resources available in your area?
* Does your multimedia presentation tell whether each resource is renewable or nonrenewable?
* Does your multimedia presentation include the environmental impact of obtaining and using these resources?
* Did you include information on how the local population impacts the resources (rates of use, long-term projections, etc.)?
* Did you include information on how the resources are globally distributed?
* Did you include how the global distribution and use of these resources affect your community economically and politically?
* Did you provide a long-term plan for sustainable use of the resources?
* Did you include potential impact of your sustainability plan on local and state governments?
* Did you include information about how your plan would impact the local economy?
* Did you include all sources you used?
* Does your presentation include relevant images, graphics, and headings?
* Did you double-check for correct sentence structure, punctuation, grammar, and spelling in your presentation?

**Step 7: Revise and submit your project.**

1. If you were unable to check off all of the requirements on the checklist, go back and make sure that your project is complete. Save your project before submitting it.
2. Submit your presentation to your teacher or through the virtual classroom.
3. Congratulations! You have completed your project.