Improving Solutions-focused Resources in CLEAN Collection

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● Lay out reason for topic: Frank / Reb
● Explain what resources we’re looking for (scope): Frank / Reb
  ○ Disclosure that not all resources (eg, NOAA) make it into CLEAN, simply because they don’t meet all aspects of the CLEAN set of criteria.
● Criteria for resources for inclusion in CLEAN: Marian
  ○ Reminder of maintenance review process -- every resource is reexamined at least every 3 years. Several resources archived during NGSS tagging process.
● How to submit for review to collection: Marian
● Facilitate discussion / questions from participants:
GUIDING PRINCIPLE FOR INFORMED CLIMATE DECISIONS:
Humans can take actions to reduce climate change and its impacts.

A. Climate information can be used to reduce vulnerabilities or enhance the resilience of communities and ecosystems affected by climate change. Continuing to improve scientific understanding of the climate system and the quality of reports to policy and decision-makers is crucial.

B. Reducing human vulnerability to the impacts of climate change depends not only upon our ability to understand climate science, but also upon our ability to integrate that knowledge into human society. Decisions that involve Earth’s climate must be made with an understanding of the complex inter-connections among the physical and biological components of the Earth system as well as the consequences of such decisions on social, economic, and cultural systems.

C. The impacts of climate change may affect the security of nations. Reduced availability of water, food, and land can lead to competition and conflict among humans, potentially resulting in large groups of climate refugees.

D. Humans may be able to mitigate climate change through technological innovations and policy interventions. However, reducing greenhouse gas emissions is essential to preventing catastrophic impacts on the Earth system.

E. It is important to address the root causes of climate change and to support sustainable practices that reduce our impact on the environment. This includes transitioning to renewable energy sources, preserving biodiversity, and reducing waste.
D. Humans may be able to mitigate climate change or lessen its severity by reducing greenhouse gas concentrations through processes that move carbon out of the atmosphere or reduce greenhouse gas emissions.
E. A combination of strategies is needed to reduce greenhouse gas emissions.
Humans can adapt to climate change by reducing their vulnerability to its impacts.
G. Actions taken by individuals, communities, states, and countries all influence climate.

How can you be a LEADER in greening your schools?
Climate and Energy Topics Analysis

showing only Human Responses to Climate

Human Responses to Climate

39 matches General/Other
Adaptation Strategies 15 matches
Risk Management 3 matches
Personal Responsibility 27 matches

Mitigation Strategies 74 matches
Climate and Energy Topics Analysis

Another way to search the collection is to use the faceted search terms: Climate and Energy Topics showing only "Human Responses to Climate" and the Climate Literacy Principles showing only "Humans can take action."

Humans can take action

18 matches General/Other GP a Climate science improves informed policy and decision-making

6 matches

GP b Reducing human vulnerability to and impacts on climate requires multi-disciplinary, integrated understanding 8 matches

GP c Climate change affects national security 2 matches

GP d Greenhouse gas reduction and carbon dioxide sequestration to mitigate climate change 18 matches

GP e Strategies to reduce greenhouse gas emission (energy conservation, renewable energies, change in energy use) 49 matches

GP f Strategies of human adaptation to climate change 13 matches

GP g Actions taken by different levels of society can mitigate climate change and increase preparedness for current and future generations 54 matches
Climate and Energy Topics Analysis

Engineering Design (NGSS) ETS

**Middle School** > Engineering, Technology, and Applications of Science (MS-ETS): 22 matches

Resource Type

- Activity 14 matches
- Short Demonstration/Experiment 1 match
- Visualization 6 matches
- Video 1 match

**High School** > Engineering, Technology, and Applications of Science (HS-ETS): 73 matches

Resource Type

- Activity 26 matches
- Short Demonstration/Experiment 4 matches
- Visualization 9 matches
- Video 34 matches
Guidelines for submission to CLEAN for review

Resources submitted must:

· be free to access
· originate from a credible source (university, research center, educational group)
· not be advocacy, but solutions focused and Guiding Principle aligned
· if an activity, should be stand-alone (i.e. not a module or a curriculum)
· teach one of the energy or climate principles and have a strong connection to climate

Before submitting a resource, please search the collection by title or url to be sure that it isn’t already there!
Where to submit a resource

http://cleanet.org/clean/community/suggestresource.html

(there are also examples of resources and very thorough guidelines here...)