



Republic of the Philippines  
**Department of Education**  
REGION III – CENTRAL LUZON  
SCHOOLS DIVISION OFFICE - SCIENCE CITY OF MUÑOZ

March 3, 2021

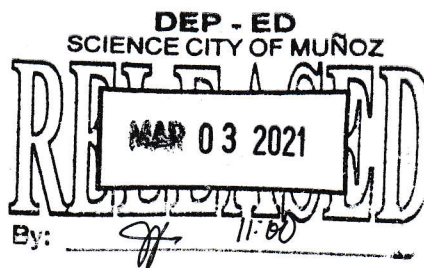
**DIVISION MEMORANDUM**

No. 87, s. 2021

**CURATED RESOURCES FOR CLIMATE CHANGE EDUCATION AND ACTION**

To: Public and Private Elementary and Secondary School Heads  
All Others Concerned

1. Pursuant to the issued OUA MEMO 00-0221-0220 on February 26, 2021, the Disaster Risk Reduction and Management Service (DRRMS), in partnership with the Bureau of Curriculum Development (BCD) and the Information and Communications Technology Service (ICTS), curated reference materials and supplementary learning materials on climate change education and action. This compilation of references will help educators in teaching concepts related to climate change, especially in the new normal.
2. Attached is the Memorandum from the Office of the Undersecretary-Administration (OUA), for reference.
3. Immediate dissemination of this Memorandum to all concerned is enjoined.



**DANTE G. PARUNGAO, CESO VI**  
Officer-In-Charge  
Office of the Schools Division Superintendent

CID/2021



*Loyal, Excellent, Accountable and Dedicated to Service*

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Certificate No. 50500731 QM15

4/26



OUAD00-0221-0220  
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Republika ng Pilipinas  
**Kagawaran ng Edukasyon**  
Tanggapan ng Pangalawang Kalihim

**OUA MEMO 00-0221-0220**  
**MEMORANDUM**  
26 February 2021

For: **All Regional Directors and BARMM Education Minister**  
**All School Division Superintendents**  
**All Public and Private Elementary and**  
**Secondary School Heads**

Subject: **CURATED RESOURCES FOR CLIMATE CHANGE EDUCATION**  
**AND ACTION**

In line with the importance of raising awareness on environmental concerns, the Disaster Risk Reduction and Management Service (DRRMS), in partnership with the Bureau of Curriculum Development (BCD) and the Information and Communications Technology Service (ICTS), **curated reference materials and supplementary learning materials on climate change education and action.** This compilation of resources will help educators in teaching concepts related to climate change, especially in the new normal.

Teachers may now refer to the microsite at <http://bit.ly/DepEdCCE> for the following: a) references and resources connected to DepEd Commons and Learning Resources Management and Development System (LRMDS); b) references for teachers; and c) learning resources with APA citation (lesson plans, videos, and interactive online activities).

Kindly note that the materials included are owned by external partners and may be used for non-commercial education purposes. Please refer to the attached guide on how to navigate through the microsite.

For more information, kindly contact Ms. Zherluck Shaen Rodriguez of the DRRMS through (02) 8637-4933 or email at [drmo+ccam@deped.gov.ph](mailto:drmo+ccam@deped.gov.ph)

For information and guidance.

  
**ALAIN DEL B. PASCUA**  
Undersecretary



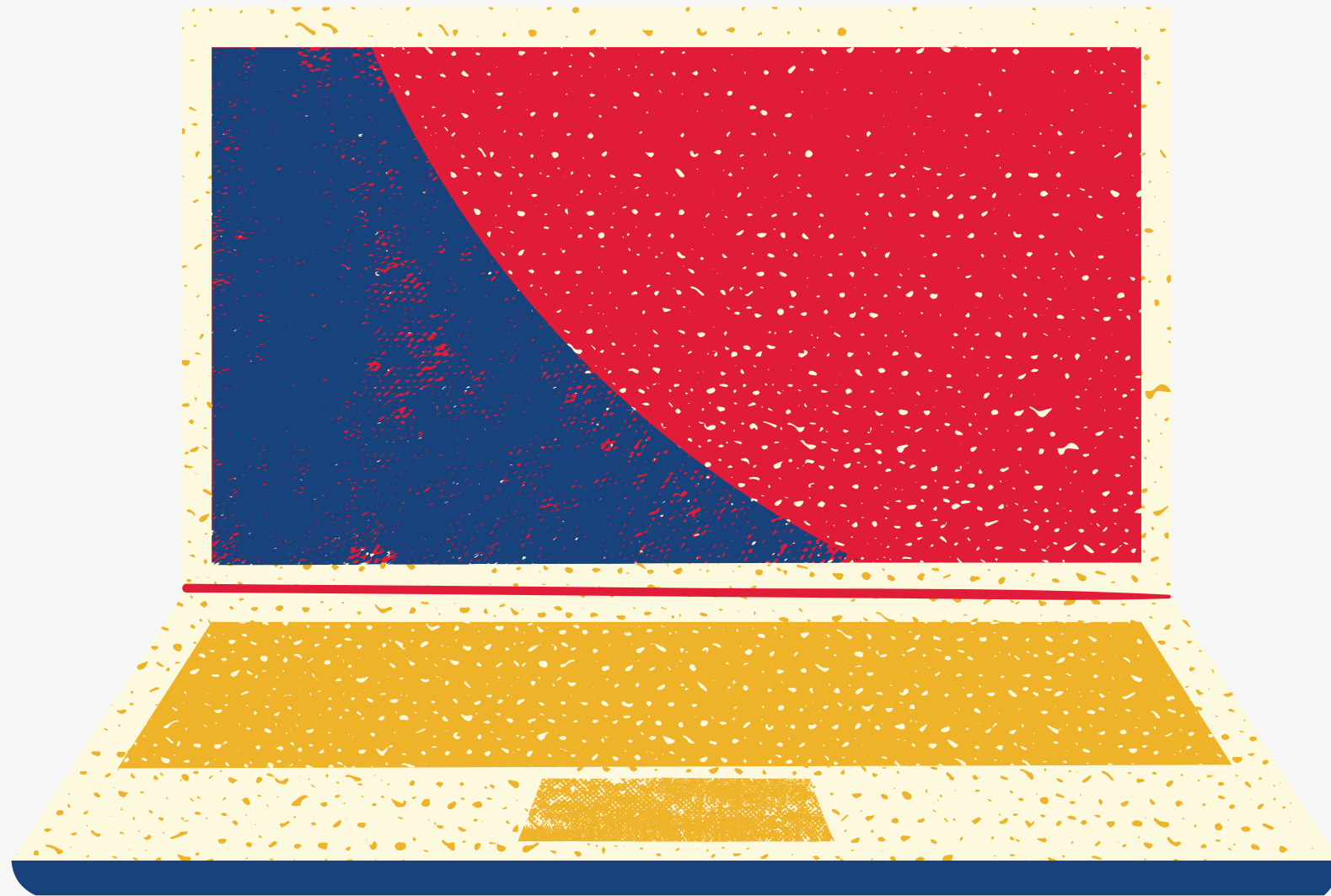
Scan this QR Code to view  
Videos and Magazines  
of Major Programs



**Office of the Undersecretary for Administration (OUA)**

*[Administrative Service (AS), Information and Communications Technology Service (ICTS), Disaster Risk Reduction and Management Service (DRRMS), Bureau of Learner Support Services (BLSS), Baguio Teachers Camp (BTC), Central Security & Safety Office (CSSO)]*

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# Microsite Manual

NAVIGATING THE MICROSITE FOR TEACHING  
CLIMATE CHANGE



**SULONG**  
**EduKALIDAD**

# Introduction to the microsite

The microsite contains curated reference materials and supplementary learning materials on climate change education and action for educators. It was developed to help our teachers in teaching climate change specially in the new normal.

The microsite includes the following:

- DepEd's References and Resources which is connected to DepEd Commons and DepEd LRMS
- References for Teachers
  - Learning Resources with APA
  - Citation
  - Lesson Plans
  - Videos
  - Interactive Online Activities

**This guide explains the many ways in which one can use the site in order to get the most out of our vast resource**

For questions,  
feel free to get in touch with the DRRMS team at  
[drmo+ccam@deped.gov.ph](mailto:drmo+ccam@deped.gov.ph)

# Access

To access the microsite, type [deped.gov.ph/climate-change-education](https://deped.gov.ph/climate-change-education) on your browser.

 `deped.gov.ph/climate-change-education|`

 [deped.gov.ph/climate-change-education](https://deped.gov.ph/climate-change-education)

# Interface

Curated Resources for Teaching Climate Change

Home

Climate Change Education in the Philippines

DepEd's References and Resources

References for Teachers on Climate Change Topics






Learning Resources >

About DepEd DRRMS

Your landing page will have 6 tabs on the menu.

- 1) **Home**: provides the overview of what can be found on the site
- 2) **Climate Change Education in the Philippines**: provides a situationer and core messages of Climate Change Education in the Philippines
- 3) **DepEd's References and Resources**: provides an overview about the DepEd Commons and the Learning Resources Management And Development System (LRMDS)
- 4) **References for Teachers**: contains references for teachers in teaching Climate Change
- 5) **Learning Resources**: a collection of videos, lesson plans and online activities that you can use
- 6) **About DRRMS**: provides more information about the Disaster Risk Reduction and Management Service

## CLIMATE SCIENCE

-  The Basis of Climate Change +
-  Debunking the 10 myths on climate change +
-  Implications of Climate Change to Different Sectors +
-  Global Warming of 1.5 °C +
-  Our Warming World: How Much Difference Will Half-A-Degree Really Make? +

## CLIMATE CHANGE IN THE PHILIPPINES

-  Climate Change in the Philippines +
-  Executive Brief of Climate Change and the Philippines +
-  The Philippine Climate Almanac +
-  The Philippine Climate Change Assessment +
-  The State of the Philippine Climate +
-  Climate Landscape Analysis for Children in the Philippines +

### Debunking the 10 myths on climate change -

SOURCE: WORLD WIDE FUND FOR NATURE (WWF)

This article clarifies common myths and misconceptions about climate change.

#### Topics:

- Myth 1. The earth's Climate has always changed
- Myth 2. Plants need carbon dioxide
- Myth 3. Global warming isn't real as it's still cold
- Myth 4. Climate change is a future problem
- Myth 5. Renewable energy is just a money-making scheme
- Myth 6. Polar bear numbers are increasing
- Myth 7. Renewable energy can only work when it's not cloudy or windy
- Myth 8. Animals will adapt to climate change
- Myth 9. Getting rid of humans will fix this
- Myth 10. China is the only country responsible for climate change

#### [READ HERE](#)

WORLD WIDE FUND FOR NATURE. (N.D.). DEBUNKING THE 10 MYTHS ON CLIMATE CHANGE. RETRIEVED FROM [HTTPS://WWW.WWF.ORG.UK/UPDATES/10-MYTHS-ABOUT-CLIMATE-CHANGE](https://www.wwf.org.uk/updates/10-myths-about-climate-change)

# References for Teachers

The references are sorted into different categories:

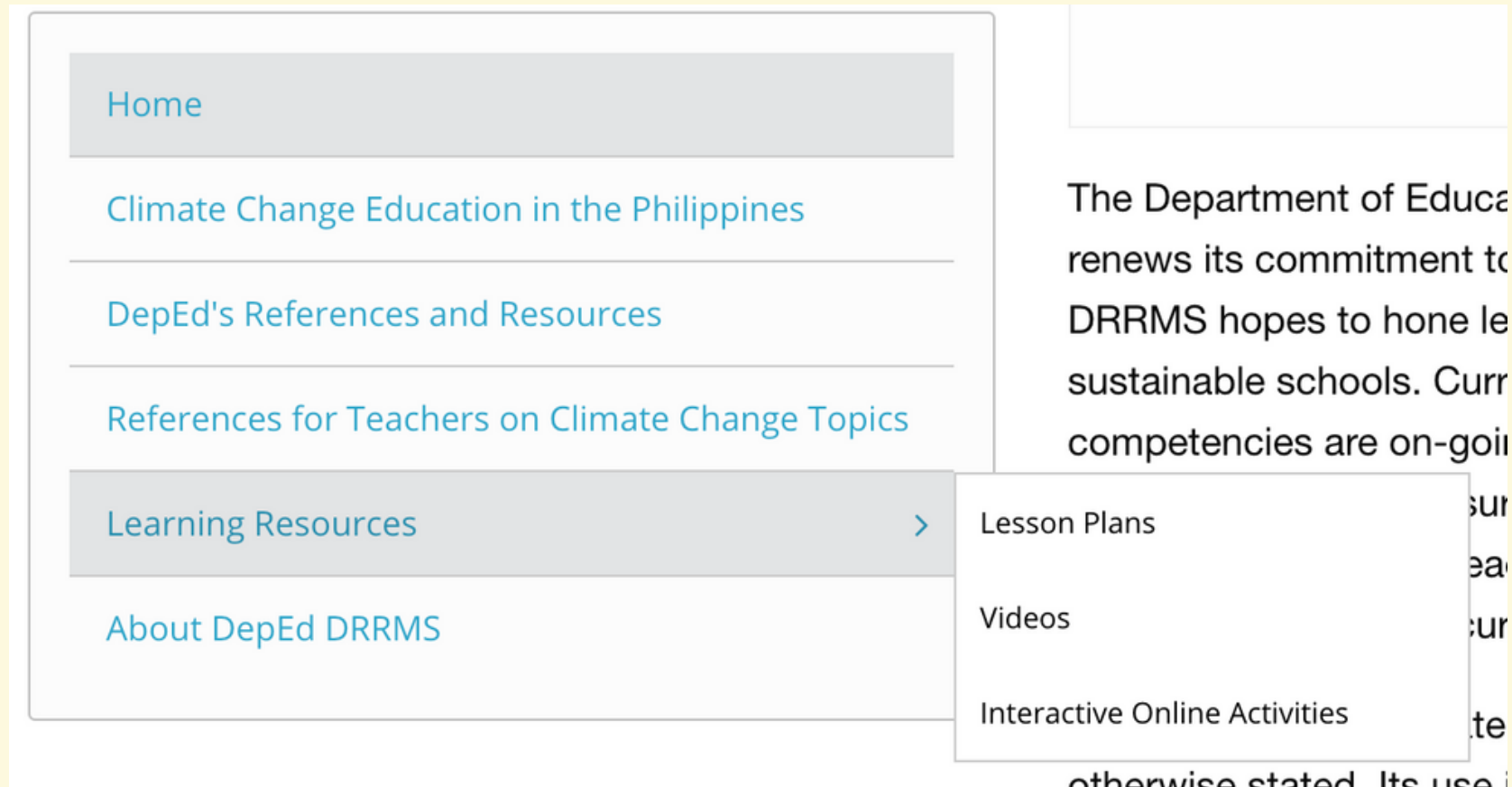
- a. Climate Science
- b. Climate Change in the Philippines
- c. Teaching Climate Change
- d. Free Online Courses

Once you find the reference you are interested in, click it to show more details. You may learn more about the topics by clicking "READ HERE".



# Learning Resources

At the learning resources page, you will find three subpages:



## LESSON PLANS:

If you are looking for an inspiration for your climate change lessons, you will find various ideas here. Please note that the lesson plans do not follow the DepEd format.

## VIDEOS:

We have gathered videos that can help you teach Climate Change to your students. These videos were taken from credible educational channels on Youtube and other institutions. DepEd DRRMS added guide questions and time stamps for your convenience.

## INTERACTIVE ONLINE ACTIVITIES:

For more interactive activities in teaching Climate Change, we have also gathered games and activities developed by credible sources which may be used for online learning.

# LESSON PLAN

If you are looking for an inspiration for your climate change education lessons, you will find various ideas here.

You will find Subjects Covered, Grade Level, and Topics.

## Global Climate Change Education Modules

SOURCE: NASA

**Subjects Covered:** Depends on the teacher; the lessons are more general than tailor-fitted to competencies.

**Grade Level:** Depends on the teacher; it can be customized to fit the grade level

### **Topics:**

- Climate Science and Impacts
- Adaptation and Mitigation

### [READ HERE](#)

NASA. (N.D.). GLOBAL CLIMATE CHANGE EDUCATION MODULES. RETRIEVED FROM [HTTPS://ESSEACOURSES.STRATEGIES.ORG/MODULE.NASA.HTML](https://esseacourses.strategies.org/module.nasa.html)

# VIDEOS

We have gathered videos that can help you teach Climate Change to your students

We prepared guide questions and time stamps for your convenience.

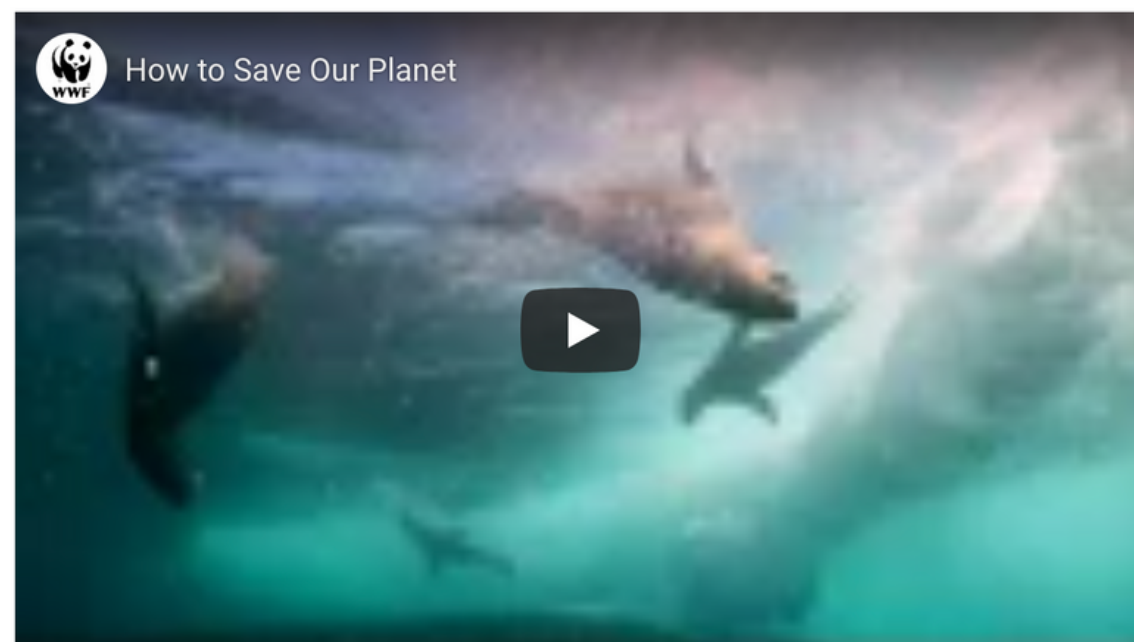
## IMPACTS OF CLIMATE CHANGE

### How to Save Our Planet

SOURCE: WWF INTERNATIONAL

#### Guide Questions:

- How did humans change the planet?
- How did we contribute to the biodiversity loss?
- How can we turn the situation around?
- How to save our planet?



- 0:24/ 8:27 HOW DID HUMANS CHANGE THE PLANET?
- 2:22/ 8:27 HOW DID WE CONTRIBUTE TO THE BIODIVERSITY LOSS?
- 4:05/ 8:27 HOW CAN WE TURN THE SITUATION AROUND?
- 5:20/8:27 HOW TO SAVE OUR PLANET?

WWF INTERNATIONAL. (2019, APRIL 5). HOW TO SAVE OUR PLANET [VIDEO]. YOUTUBE.  
[HTTPS://WWW.YOUTUBE.COM/WATCH?V=0PUV0PSS33M](https://www.youtube.com/watch?v=0PUV0PSS33M)

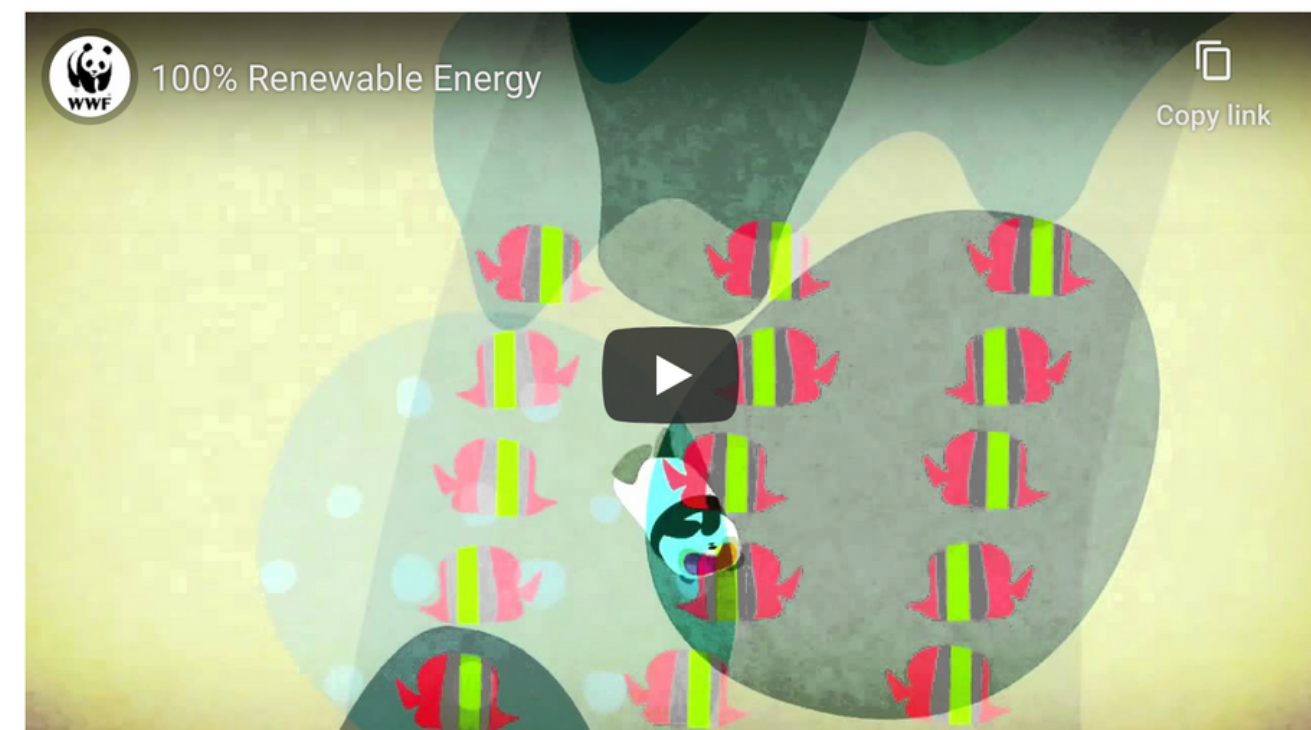
## SOLUTIONS TO CLIMATE CHANGE

### Renewable Energy: 100% Renewable Energy

SOURCE: WWF INTERNATIONAL

#### Guide Questions:

- What are the different types of renewable energy?



- 0:00/2:00 WHAT ARE THE DIFFERENT TYPES OF RENEWABLE ENERGY?

WWF INTERNATIONAL. (2014, MARCH 7). 100% RENEWABLE ENERGY [VIDEO]. YOUTUBE.  
[HTTPS://WWW.YOUTUBE.COM/WATCH?V=TZPWLP9XKF4](https://www.youtube.com/watch?v=TZPWLP9XKF4)

# INTERACTIVE ONLINE ACTIVITIES

For more interactive activities in teaching Climate Change, we have also gathered games and activities developed by credible sources which may be used for online learning.

There are different types of games from various themes such as Climate Science, Impacts of Climate Change, Adaptation and Mitigation, Simulation of Climate Policymaking, and Disaster Preparedness

## CLIMATE SCIENCE

### CLIMATE KIDS

Climate Kids is produced by the Earth Science Communications Team at NASA's Jet Propulsion Laboratory / California Institute of Technology. It contains information on climate science, water, energy, plants & animals and resources like games and activities.

**Grade Level:** 1-10

**Subjects Covered:**

- Climate Science
- Impact of Climate Change
- Adaptation and Mitigation



[EXPLORE CLIMATE KIDS HERE](#)

EARTH SCIENCE COMMUNICATIONS TEAM. (2010). CLIMATE KIDS [COMPUTER VIDEO GAME]. NASA JET PROPULSION TECHNOLOGY, CALIFORNIA INSTITUTE OF TECHNOLOGY

## SIMULATION OF CLIMATE POLICYMAKING

### MISSION 1.5

The campaign is built around an internet and mobile-based video game, developed by the United Nations Development Programme (UNDP) alongside experts in game development, climate science and public polling, in which players take on the role of climate policymakers and make decisions to try to keep global warming below 1.5 degrees Celsius.

**Grade Level:** 7-12

**Subjects Covered:**

- Policy-making
- Public Opinion



[CHECK MISSION 1.5 HERE](#)

UNDP. (2020). MISSION 1.5 [COMPUTER VIDEO GAME]. UNDP.

# APA CITATION

If you want to use the learning resources and reading materials found in this site, we have prepared an APA citation for your reference.

## Shaping Our Future

SOURCE: WWF

**Subjects Covered:** Depends on the teacher; the lessons are more general than tailor-fitted to competencies.

**Grade Level:** 1-10

### Topics:

- Climate Science and Impacts
- Adaptation and Mitigation

### READ HERE

WWF. (N.D.). SHAPING OUR FUTURE. RETRIEVED FROM [HTTPS://WWW.WWF.ORG.UK/GET-INVOLVED/SCHOOLS/SCHOOL-CAMPAIGNS/SHAPING-OUR-FUTURE](https://www.wwf.org.uk/get-involved/schools/school-campaigns/shaping-our-future)

## Global Warming of 1.5 °C

SOURCE: INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE (IPCC)

The IPCC Special Report on Global Warming of 1.5 °C warns on the impacts of global warming of 1.5 °C above pre-industrial levels and related global greenhouse gas emission pathways.

### Topics:

- Understanding the impacts of 1.5°C global warming
- Why is it necessary and even vital to maintain the global temperature increase below 1.5°C versus higher levels?
- Global response to warming of 1.5°C

### READ HERE

INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE (IPCC). (N.D.). GLOBAL WARMING OF 1.5 °C. RETRIEVED FROM [HTTPS://WWW.IPCC.CH/SR15/](https://www.ipcc.ch/sr15/)

# Visit the site now.



[deped.gov.ph/climate-  
change-education](https://deped.gov.ph/climate-change-education)

For questions,  
feel free to get in touch with the DRRMS team at  
[drmo+ccam@deped.gov.ph](mailto:drmo+ccam@deped.gov.ph)