Climate Communication: Tools and Tips

Council of State Governments

Northeastern Legislative Climate and Energy Summit

May 11, 2018

Karen Florini
Vice President for Programs
Climate Central



Climate Central: non-partisan, **non-advocacy** climate research and communications NGO based in Princeton NJ



Roadmap

- Five tools [plus bonus tool mentioned during Q&A = Tool #6]
- Three tips



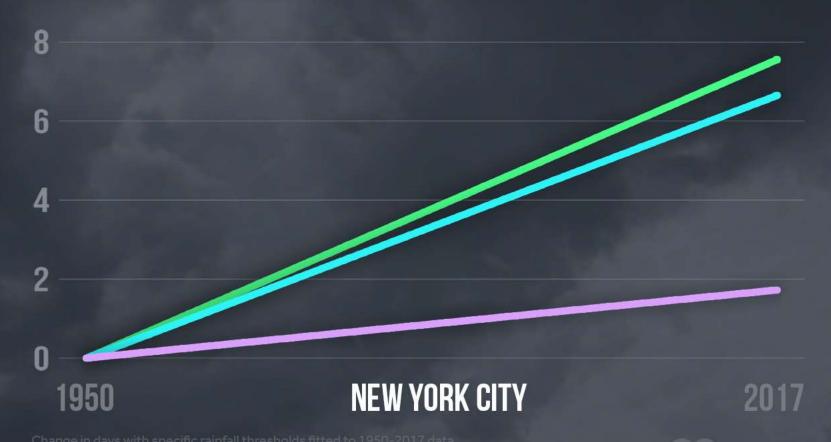
Tool #1: Localized Climate/Weather Visuals

For each of the 244 media markets in the U.S.



HEAVY RAINFALL TRENDS

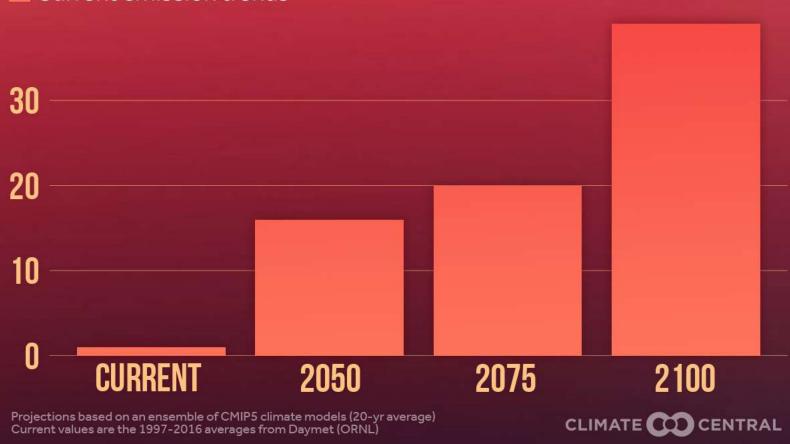
Change in days with: -0.5" -1.0" -2.0"



http://www.climatecentral.org/outreach/alert-archive/2018/2018HeavyRain-ARCHIVE.html?market=NYC

FUTURE DAYS ABOVE 95°

Current emission trends





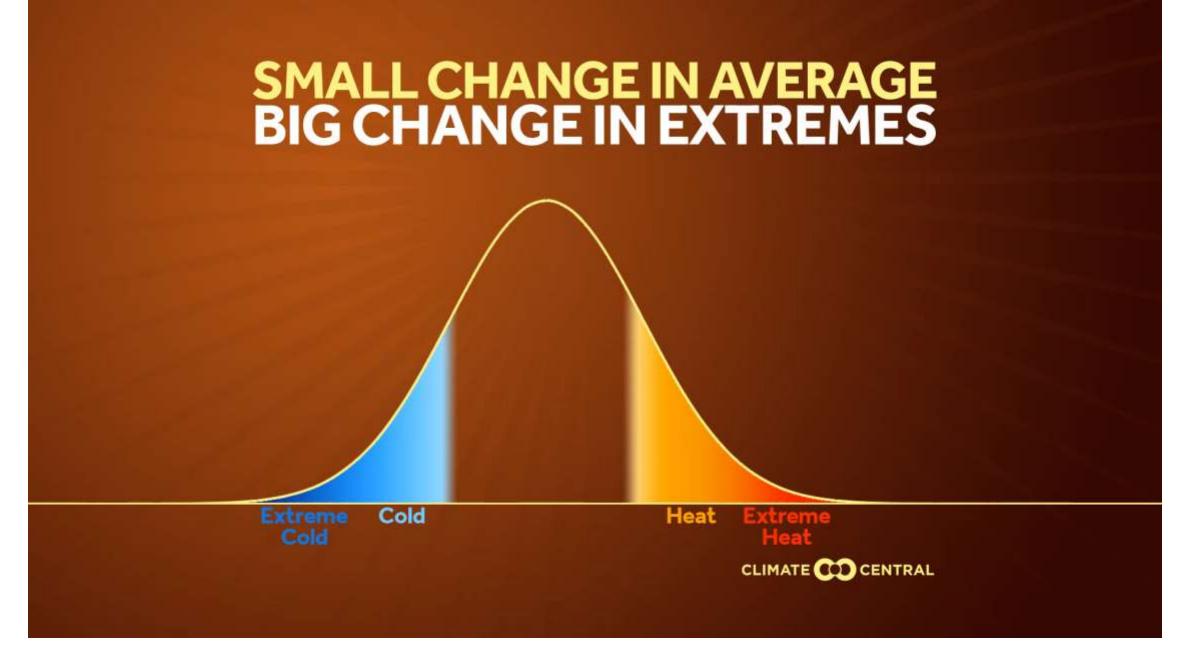
MOSQUITO SEASON GROWING



Source: Yamana and Eltahir (2013), NCBI, National Institutes of Health. Daymet Data, Oak Ridge National Laboratory



CLIMATE CO CENTRAL



FALLING RESIDENTIAL SOLAR COSTS



Cost includes labor, equipment, and fees Source: NREL Cost Benchmark 2017



http://www.climatecentral.org/gallery/graphics/falling-residential-solar-costs

CARBON FARMING

Yearly Maximum CO₂ Uptake By Soils





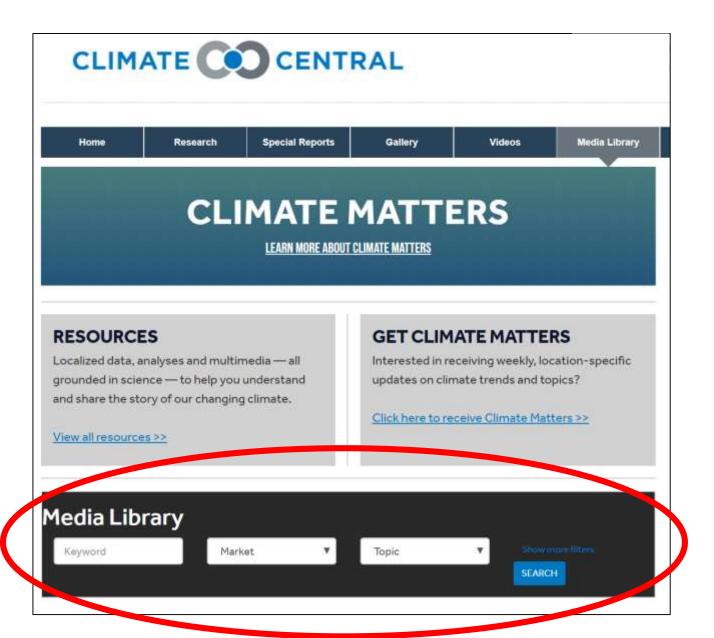


Equal to — annual emissions 34,000 Cars driven

Source: Paustian et al. 2017

CLIMATE CO CENTRAL





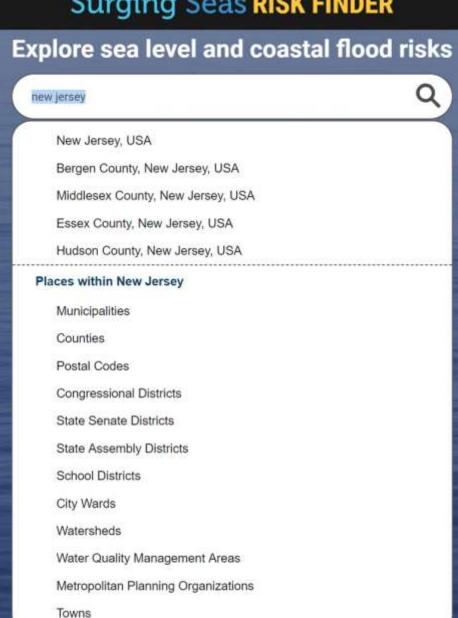
http://MediaLibrary.climatecentral.org/



Tool #2: Localized sea level rise visuals

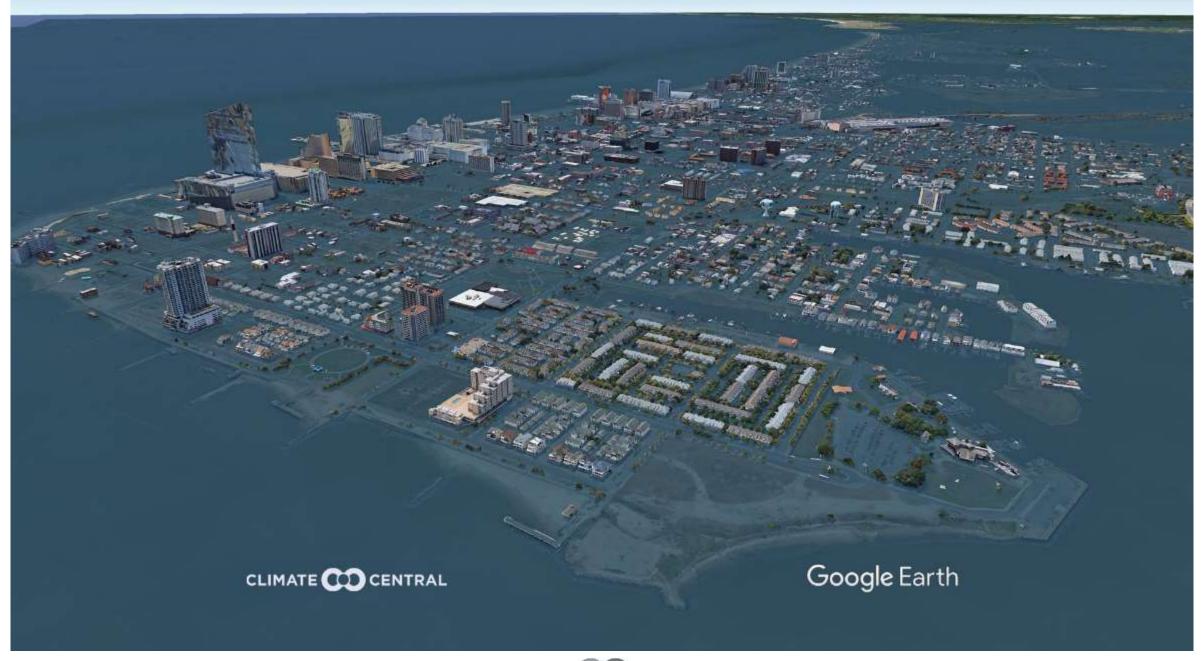


Surging Seas RISK FINDER



https://riskfinder.climatecentral.org/















Water level (ft)

What Is at Risk?





Buildings][

Infrastructure

Contamination Risks

Land

Total population below 5ft in Philadelphia *LS=



Population: All v	Total
Population	4,280
Population of color	3,068
African-American population	2,680
Medium social vulnerability population	2,102
Caucasian population	1,261
High social vulnerability population	1,122
Low social vulnerability population	732









What Is at Risk?





Population

Buildings Infrastructure Contamination Risks

Land

Total infrastructure below 6ft in Philadelphia



Infrastructure: All v	Total
Roads	69 miles
Local roads	61 miles
Railroads	27
Non-mainline rail	20 miles
Secondary roads	11 miles
Mainline rail	7 miles
Intermodal freight terminals	6









What Is at Risk?



Buildings Infrastructure Contamination Risks Land Population

Total contamination risks below 6ft in Philadelphia



Contamination Risks: All 🔻	Total
EPA listed sites	72 Î
Hazardous waste sites	41
RADINFO sites	40
Minor hazwaste source sites	27
Wastewater sites	19
NPDES sites	17
Nonmajor wastewater sites	16







Water level (ft)

What Is at Risk?





Population

Buildings |

Infrastructure

Contamination Risks

Total land below 6ft in Philadelphia ***



Land: All v	Total
Land	8.4 sq. miles
Property value	\$1.4 Billion
Protected land	2.1 sq. miles
Federal protected land	1.7 sq. miles
Local protected land	0.4 sq. miles
National Wildlife Refuges	12
Local parks	4



http://www.climatecentral.org/wgts/2017-lamm-sliders/mar-a-lago/index.html?utm_source=cc&utm_medium=embed&utm_campaign=Lamm-2017-Sliders-Mar-a-lago



Tool #3: Fabulous Photos



Climate Solutions

















Climate Impacts













Climate Causes













Panos











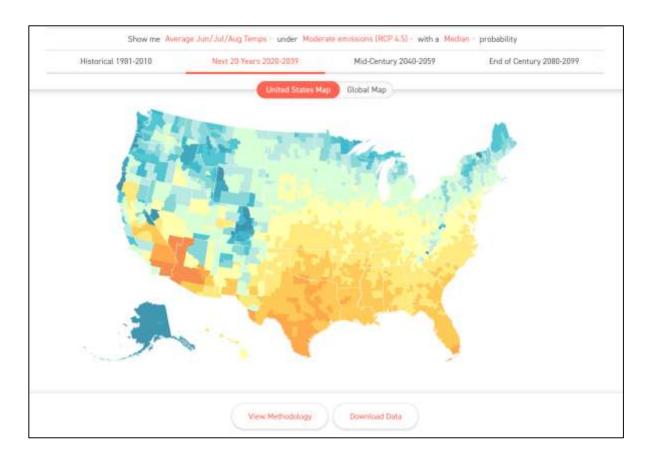


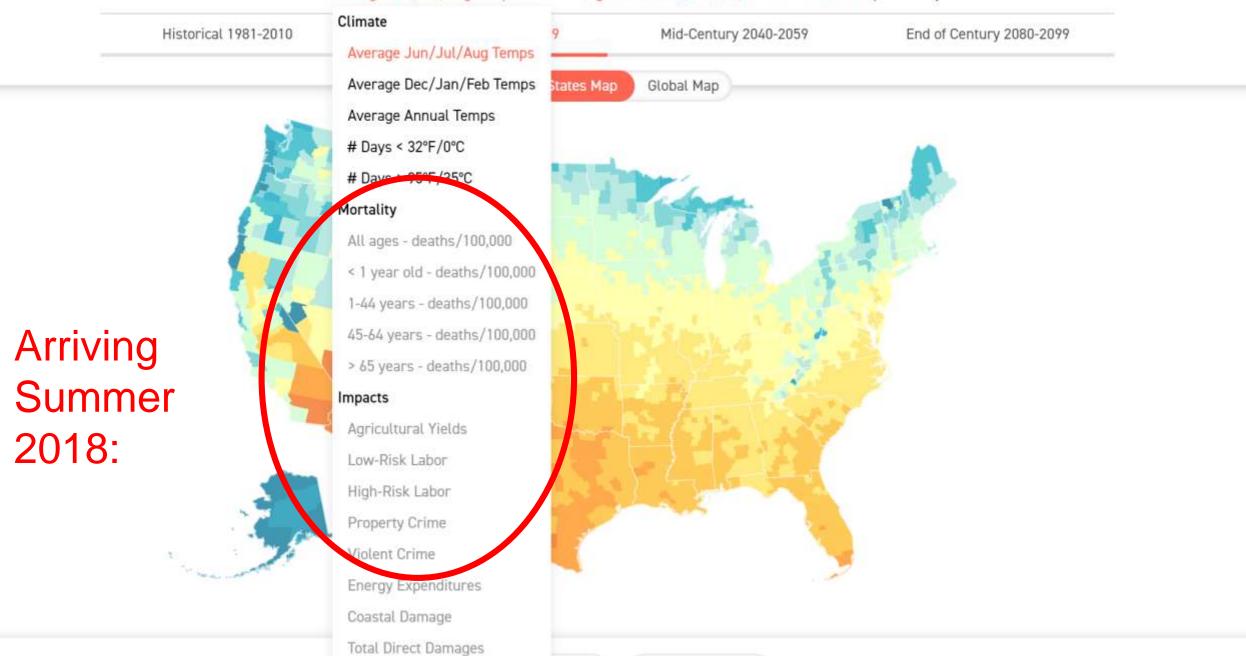
Tool #4: Economic Impacts



① www.impactlab.org







Mortality

All ages - deaths/100,000

< 1 year old - deaths/100,000

1-44 years - deaths/100,000

45-64 years - deaths/100,000

> 65 years - deaths/100,000

Impacts

Agricultural Yields

Low-Risk Labor

High-Risk Labor

Property Crime

Violent Crime

Energy Expenditures

Coastal Damage

Total Direct Damages

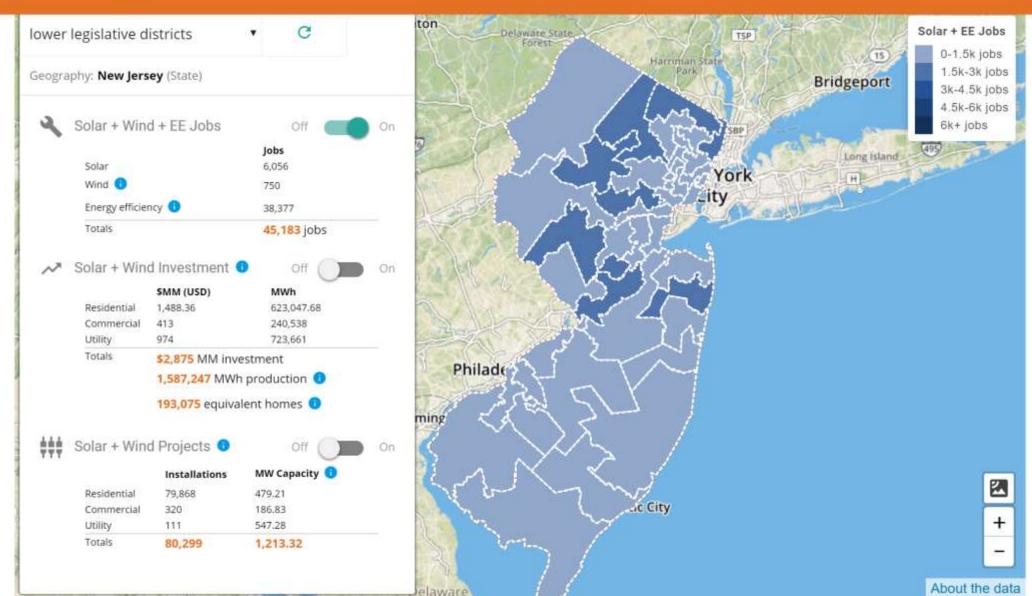


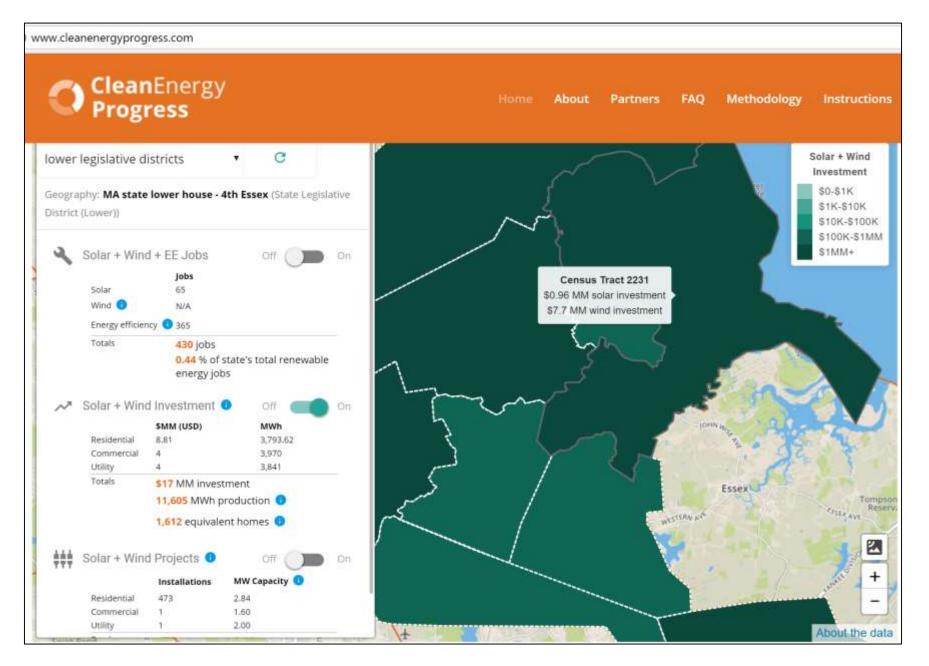
Tool #5: Localized solutions info



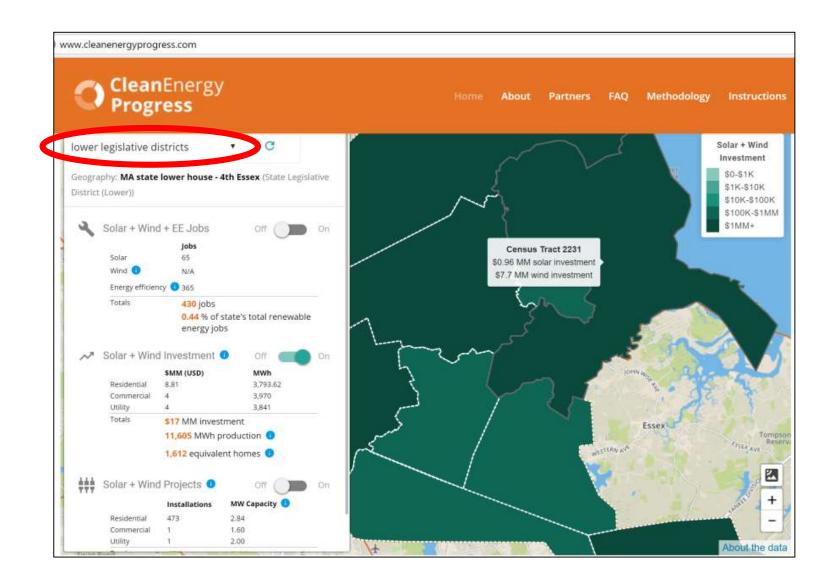


Home About Partners FAQ Methodology Instructions









Iower legislative districts

congressional districts

lower legislative districts

upper legislative districts

counties



Partners



- ALLIANCE TO SAVE ENERGY
- BLUEGREEN ALLIANCE
- CLEANCAPITAL
- ENVIRONMENTAL DEFENSE FUND

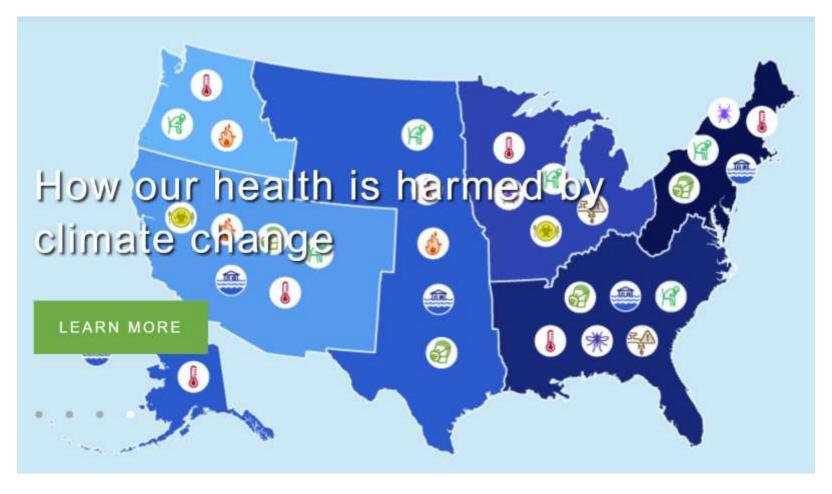
- INK COMMUNICATIONS CO.
- INGERSOLL RAND
- LEAGUE OF WOMEN VOTERS
- OPERATION FREE



NEW! Tool #6: Health connections



Medical Society Consortium on Climate & Health https://medsocietiesforclimatehealth.org/





Post-script



UNITED STATES **CLIMATE ALLIANCE**

Today's Trio of Tips



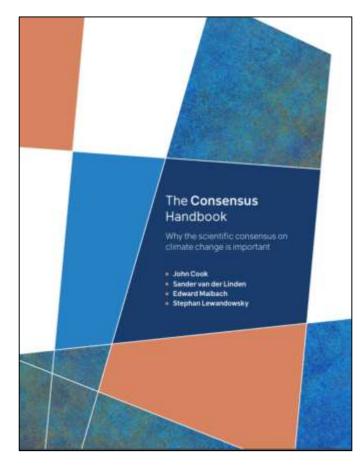
Tip #1: Keep It Simple & Straightforward

- 1. CO2 traps heat measureable in the lab
- 2. Burning fossil fuels releases CO2
- 3. A few degrees matter (a lot)
- Risks are big global food & water supplies, mass displacements, etc.
- 5. Solutions already abundant and increasingly cheap but take time to deploy at scale



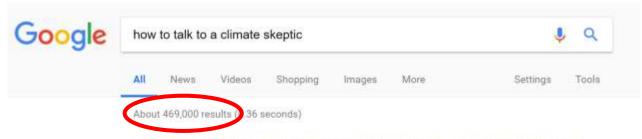


Tip #2: Science Consensus



www.climatechangecommunication.org





How to Talk to a Climate Skeptic: Responses to the most common - Grist

https://grist.org/series/skeptics/ *

Below is a complete listing of the articles in "How to Talk to a Climate Skeptic," a series by Coby Beck containing responses to the most common skeptical ...

'There is no evidence' - Yes ... Global warming is part of a ...

How to talk climate change with a skeptic: 5 critical tips ...

https://www.edf.org/blog/2016/11/22/how-talk-climate-change-skeptic-5-critical-tips ▼
Nov 22, 2016 - We've entered a new political era and emotions are raw − even over a scientifically settled topic such as climate change. Discussions that ...

How to Talk About Climate Change So Anyone Will Listen - Science ...

https://www.thecut.com/.../how-to-talk-about-climate-change-so-anyone-will-listen.ht... ▼
Nov 30, 2016 - A primer for getting climate skeptics — or people who are just indifferent — to care about the future of the planet.

What should you say to a climate change skeptic? - Los Angeles Times

www.latimes.com/.../la-sci-sn-climate-change-arguments-20170818-htmlstory.html ▼
Aug 18, 2017 - There are plenty of folks out there who deny the existence of climate change ... Suddenly, you realize you're talking to a climate change skeptic.

[PDF] How to Talk to a Climate Skeptic: Responses to the ... - Climate Access

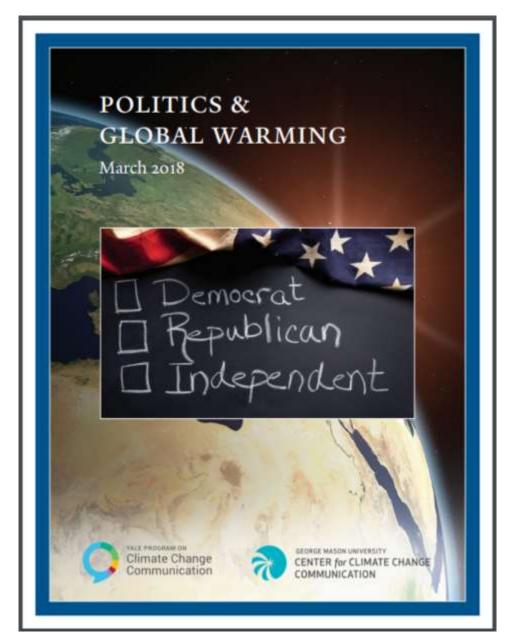
https://climateaccess.org/.../Beck_How%20to%20Talk%20to%20a%20Climate%20Ske... ▼
Below is a complete listing of the articles in "How to Talk to a Climate Skeptic," a series by Coby Beck containing responses to the most common skeptical ...

How To Talk To A Climate Change Denier - Science Friday

https://www.sciencefriday.com/.../how-to-talk-about-climate-change-with-a-denier/ ▼
Jan 11, 2017 - Use these tips to have more productive conversations about climate ... a conversation about climate change that could change a skeptic's mind.



About 469,000 results





https://www.climatechangecommunication.org

Michigan Journal of Sustainability

SUSTAINABILITY.UMICH.EDU/MJS

Responding to Climate Change Skepticism and the Ideological Divide

JESSICA M. SANTOS
School of Natural Resources and Environment, University of Michigan,
Ann Arbor, MI 48109 & Climate Central, Princeton, NJ

IRINA FEYGINA
Climate Central, Princeton, NJ

Volume 5, Issue 1 http://dx.doi.org/10.3998/mjs.12333712.0005.102



Tip #3: Sez Who

"The risk of climate change is clear and the risk warrants action"
-- Exxon, 2014

