

Health Impacts of Climate Change

Wednesday, December 5, 2018

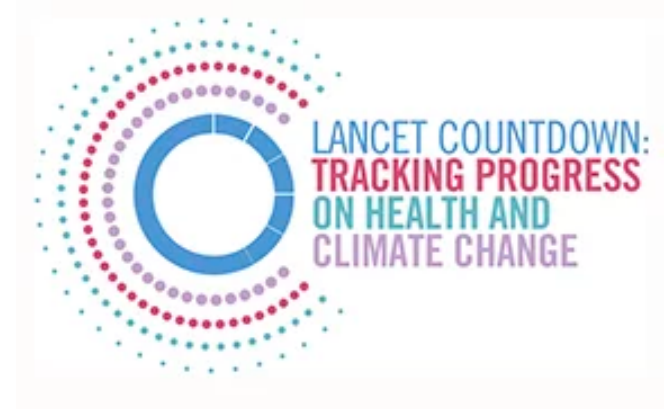
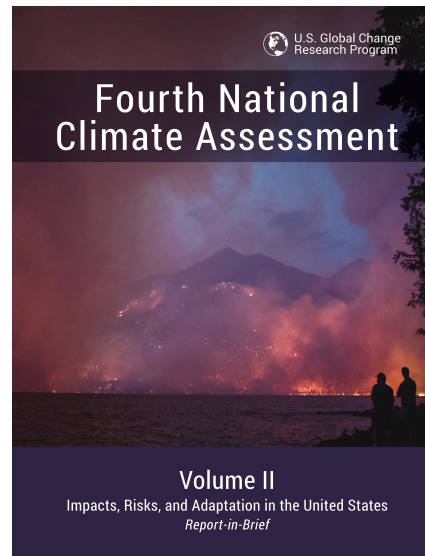
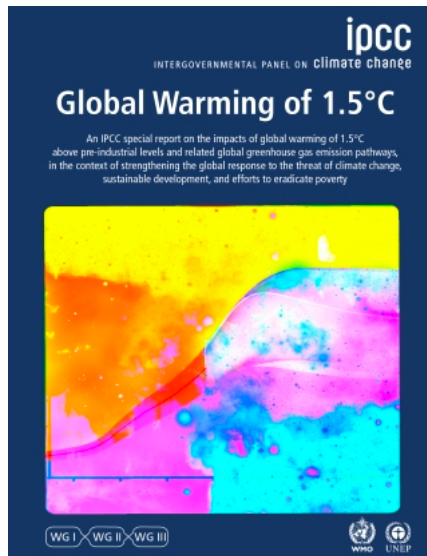
ACEEE Conference on Health, Environment, and Energy

5C. Protecting Health in a Changing Climate

Rebecca Rehr, MPH

Presented at the 2018 Conference on Health, Environment and Energy

New Reports



NCA4 Health Chapter Key Message #1: Climate Change Affects the Health of All Americans

The health and well-being of Americans are already affected by climate change, with the adverse health consequences projected to worsen with additional climate change.

Health Impacts of Climate Change



Temperature-Related Deaths

Opinions

Climate change isn't just cooking the planet. It's cooking our workforce.



Workers trim leaves on Pinot Noir vines in Petaluma, Calif., in May. (Eric Risberg/AP)

By **David Arkush** and **David Michaels**
July 19

Air Quality Impacts

- Increased pollution
 - Ozone and particulate matter
 - Burning fossil fuels
- Allergies
 - Longer pollen season
 - Increased pollen counts
- Indoor Environmental Quality

Extreme Events



Vector-Borne Diseases



- Climate change influences *mosquito* habitat and behavior
 - Expanded range
 - Additional reproductive days
 - Increased reproductive rate
 - Increased metabolism
 - Faster incubation

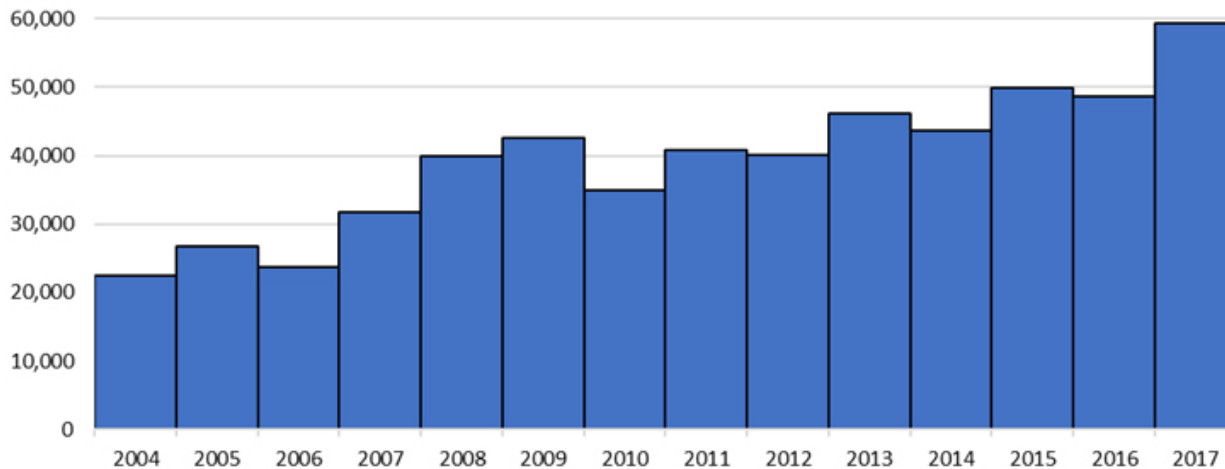
First Came the Hurricane. Now Come the Mosquitoes.

LINDA POON OCT 3, 2018

CITYLAB

Heavy rains and flooding create ideal conditions for swarms. For public health officials, the focus is on curbing the potential for viruses to spread.

Total Reported Cases of *Tickborne* Disease, 2004–2017 (CDC, 2018)



Health Impacts of Climate Change



Food Safety, Nutrition, and Distribution

- Food supply chains will be disrupted during and following extreme weather events
- Rising CO₂ levels decrease amounts of protein and essential minerals in crops like wheat, rice, and potatoes

Water-Related Illness

- Increased water temperatures
- Increased runoff and storm surges

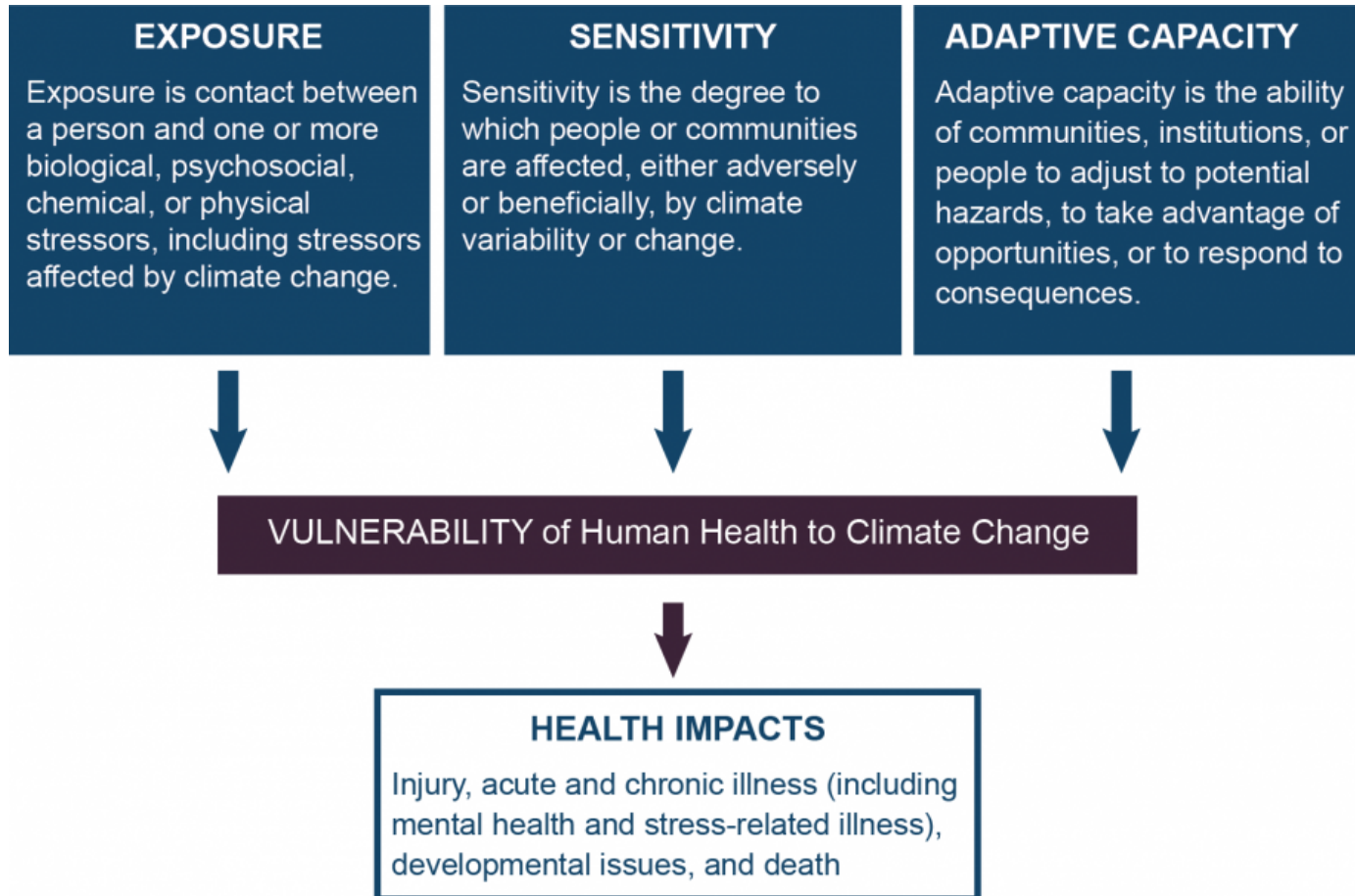
Mental Health and Well-being



KEY TAKEAWAYS: Impacts on Community and Society

- Decreased sense of cohesion
- Disrupted sense of continuity and belonging
- Increased interpersonal aggression, such as domestic abuse and crime
- Increased intergroup aggression, such as political conflict and war

Vulnerable Populations and Health Equity



USGCRP, 2016

A CALL TO ACTION ON CLIMATE AND HEALTH

2018

Climate change is a global health emergency. It is impacting the health of our communities today. A growing number of health organizations around the world are taking climate action—from working on the front lines to take care of communities impacted by climate-related threats, to responding to health emergencies, to taking ambitious steps towards reducing the carbon footprint of our health systems. We must do more.

GLOBAL CLIMATE AND HEALTH FORUM



INITIAL ENDORSERS

INTERNATIONAL

C3 Collaborating for Health (*Global*)
Canadian Association of Physicians for the Environment
Canadian Association of Nurses for Health and the Environment
Climate and Health Alliance of Australia
Doctors for the Environment Australia
German Climate and Health Alliance
Global Climate and Health Alliance (*Global*)
Health and Environment Alliance (*Global*)
Health Care Without Harm (*Global*)
Istituto Scientifico Biomedico Euro Mediterraneo (*Italy*)

UNITED STATES

Academy of Integrative Health and Medicine
Alliance of Nurses for Healthy Environments
American Academy of Allergy, Asthma and Immunology
American Academy of Family Physicians
American Academy of Pediatrics
American College of Emergency Physicians, California
American College of Physicians
American College of Preventive Medicine
American Lung Association
American Medical Women's Association
American Public Health Association
Asthma and Allergy Foundation of America
California Conference of Directors of Environmental Health
California Department of Public Health
Citizens' Climate Lobby Health Team
Climate for Health, ecoAmerica
Climate Psychiatry Alliance
Dignity Health
Florida Clinicians for Climate Action
Florida State Medical Association

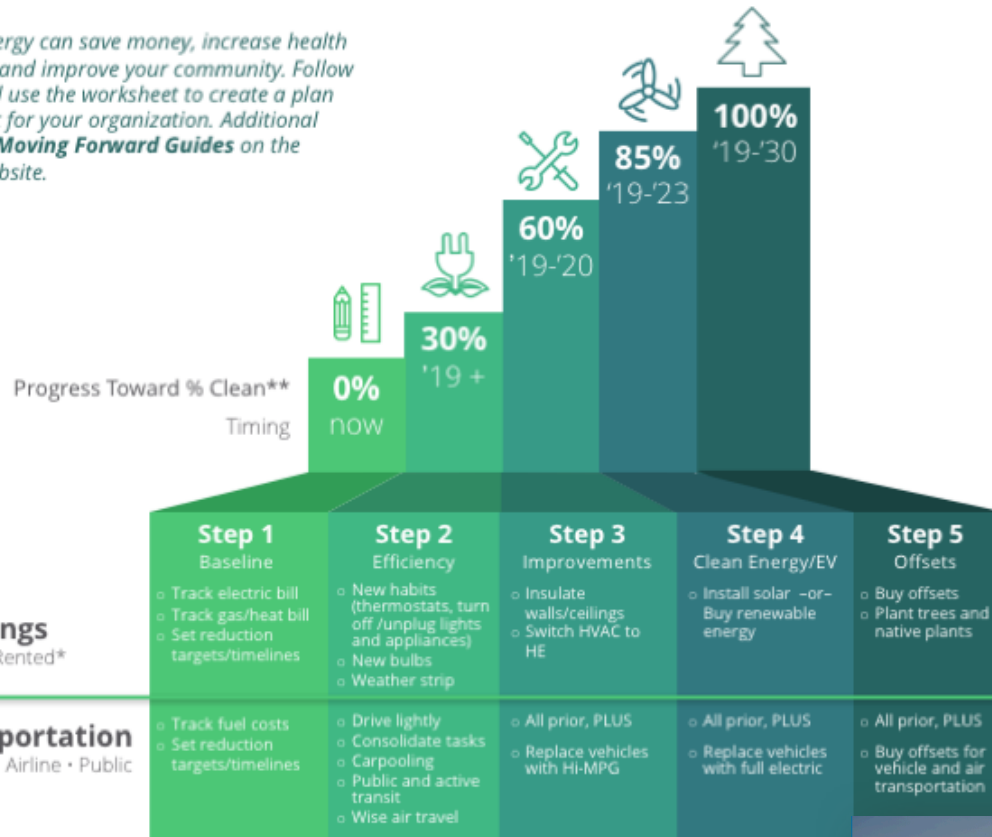
International Federation of Medical Student Associations (*Global*)
NCD Alliance (*Global*)
OraTaiao NZ Climate & Health Council (*New Zealand*)
Public Health Foundation of India
Regional Institute of Health, Medicine and Research (*India*)
UK Climate and Health Council
UK Health Alliance on Climate Change
World Federation of Public Health Associations (*Global*)

Health Professionals for a Healthy Climate (*Minnesota*)
James Wilson Bridges MD Medical Society (*Florida*)
James Sistrunk Medical Society (*Florida*)
Kaiser Permanente
Medical Advocates for Healthy Air (*North Carolina*)
Medical Society Consortium on Climate and Health
Minneapolis Health Department (*Minnesota*)
Mom's Clean Air Force
Multnomah County Health Department (*Oregon*)
National Environmental Health Association
National Medical Association
Ohio Clinicians for Climate Action
Physicians for Social Responsibility
University of California, San Francisco Institute for Global Health Sciences
US Climate and Health Alliance
Vermont Climate and Health Alliance
Virginia Clinicians for Climate Action

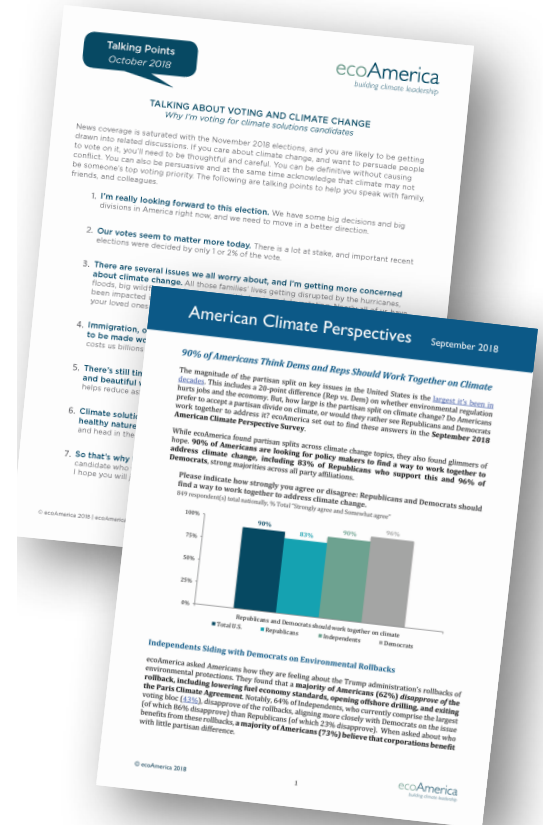
Roadmap to 100% Clean

ecoAmerica
building climate leadership

100% clean energy can save money, increase health and wellbeing, and improve your community. Follow these steps and use the worksheet to create a plan that works best for your organization. Additional support in the **Moving Forward Guides** on the ecoAmerica website.



* Special considerations
** Percentages may vary by location. Guidance given are national average estimates.



ecoAmerica
start with people



Climate for Health Declaration on 100% Clean Energy by 2030

Thank You!

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