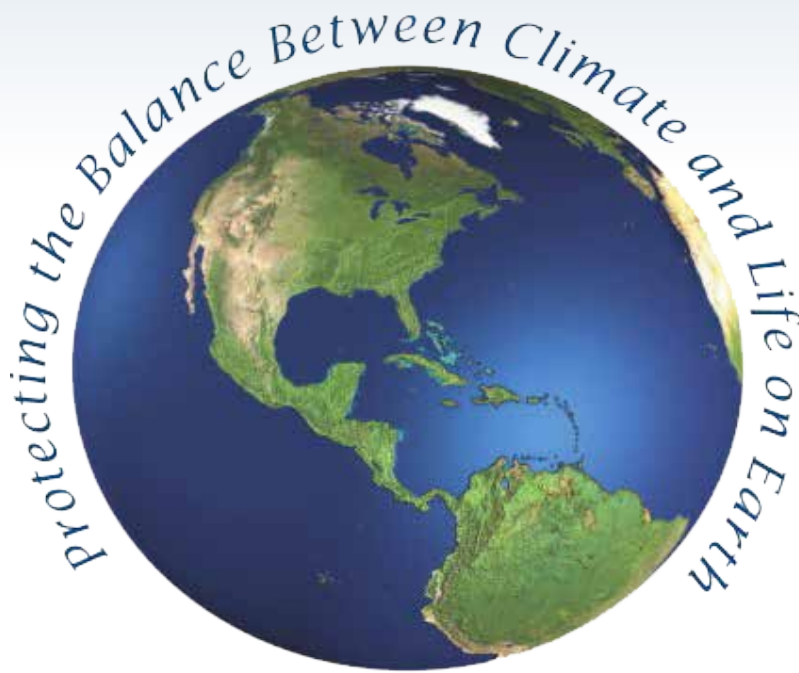




CLIMATE INSTITUTE



TWENTY-FIFTH ANNIVERSARY

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ABOUT US

The Climate Institute is an international leader in moving nations, regions, and people to address climate change in a collaborative manner and protect the balance between climate and life on earth. Founded in 1986, the Institute was the first nonprofit organization established primarily to address climate change issues. It has distinguished itself around the world by promoting global climate balance with practical and cooperative approaches. Working with an extensive network of experts and alliances in the United States and internationally, the Climate Institute is uniquely positioned to inform key decision makers, heighten international awareness of climate change, and identify practical ways of achieving significant emissions reductions. Scientists, policy leaders, and media around the world recognize the Institute as a valuable source of reliable and objective information.



OUR MISSION

The Climate Institute's mission is to:

- ▶ Catalyze innovative and practical solutions for climate change adaptation, mitigation, and climate stabilization, contribute to scientific research and communicate the results of that research in an accurate and comprehensive manner.
- ▶ Create partnerships among policymakers, scientists, the public and environmental institutions at the local, national and international levels to address the climate challenge more effectively.
- ▶ Provide objective and comprehensive information on climate change risks and potential responses.



ACCOMPLISHMENTS

Since its creation in 1986, the Climate Institute has been a leader in both catalyzing innovative and practical policy solutions toward climate stabilization, and educating the general public of the gravity of climate change impacts.

Serving as a bridge between the scientific community and policy-makers, the Climate Institute has managed to develop flexible frameworks now being used as serious starting points for international negotiations. Working with an extensive network of experts and alliances in the U.S. and internationally,

the Institute has become a respected facilitator of dialogue to move the world toward more effective cooperation while cementing long-term partnerships for global climate balance.

Some of our key accomplishments include:

- ▶ Organizing the first broad-scale climate conference in North America in 1987, the first climate change symposium for UN missions in 1988, the first Arctic climate conference in 1989 in Ottawa, Canada, and the first major climate conference in the Middle East in 1989 in Cairo, Egypt
- ▶ Co-authoring and editing much of the impact section of the Intergovernmental Panel on Climate Change (IPCC) First Assessment Report
- ▶ Coordinating Climate Impact and Response Studies in 8 Asian Nations with a fourth of the world's population
- ▶ Briefing policymakers in 22 nations under the auspices of the IPCC
- ▶ Organizing a study of the environmental refugee challenge resulting in the publication of *Environmental Exodus: An Emergent Challenge in the Global Arena* (1995)
- ▶ Initiating in 2000 a consortium of international partners and managing a global initiative to assist Small Island States in the development and implementation of their sustainable energy plans
- ▶ Launching an internship program that has trained and placed over 200 students in environmental projects
- ▶ Releasing in 2008, *Sudden and Disruptive Climate Change: Exploring the Real Risks and How We Can Avoid Them*, a compilation of presentations by scientists and experts on innovative responses to climate change
- ▶ Launching in 2009, the world's highest climate monitoring system, the Sir Crispin Tickell Observatory, and providing measurements for the Global Change Observing System
- ▶ The Climate Institute's Mexico and Latin America Program has built 14 Tickell Network Climate Theatres, the climate education equivalent of a planetarium, in Mexico. These theaters or "Houses of the Earth" are located in Flor del Bosque, Puebla, Mexico City, Cuernavaca, Metepec, Atlocomulco, Texcoco, Valle de Bravo, Veracruz, Morelia, Acapulco, Chilpancingo, Chetumal and Oaxaca
- ▶ Moving reductions of black carbon, methane and tropospheric ozone forming compounds front and center in the climate debate. Helping spearhead the development of a strong U.S. ANSI Life Cycle Assessment standard that creates valuation for reduction of short-lived climate forcers and establishes an Arctic Regional Warming Indicator and Indicators for Ocean Acidification and for Ocean Warming





Tickell Observatory at 15,000 ft.



Science on a Sphere Demonstration
Climate and Earth Science Theaters.



Cuernavaca, Mexico.



Metepec, Mexico.



Flor del Bosque Educational Park.



Oaxaca, State of Oaxaca, Mexico.

CLIMATE AWARENESS PROGRAM

Climate and Earth Science Theaters

Climate Theaters, also called “Casa de la Tierra” (Home of the Earth) in Mexico, use data from a variety of sources to visually represent climate and Earth system processes.

Climate and Earth Science Theaters integrate:

- ▶ Science on a Sphere technology from NOAA
- ▶ Data sets and satellite imagery from NASA
- ▶ Measurements from the Tickell Observatory, the highest altitude observatory in the world
- ▶ Data from the Global Atmospheric Watch Network and NOAA’s greenhouse gas network
- ▶ Wii Games controls, high speed computers, specialized soft-ware, and multilingual content.

There are currently 14 climate theaters in Mexico, and plans are being developed to expand this network to other countries in Latin America and Asia.

Tickell Network and Global Partners

The Tickell Climate Network links climate science research, large-scale climate education and tools to empower the citizenry to understand global climate change and implement climate solutions. This rapidly growing interactive network named for Sir Crispin Tickell, the Climate Institute’s Chairman and an environmental hero in Mexico and UK, seeks to achieve widespread public education while inspiring visitors at climate theatres, museums and educational parks to become climate problem solvers using their smart phones, laptops, and iPads.

The Tickell Network of partners and Climate and Earth Science Theaters, when fully developed, has the potential to serve as a global link for climate policy dialogue and conferencing, scientific exchange, collaboration between educational institutions, and education of the general public through museums and similar public spaces such as educational parks, aquariums, and other science centers. This interactive network engages the public in the following ways:

- ▶ Climate and Earth Science Theaters stir public interest
- ▶ The Tickell Observatory generates climate data
- ▶ Climate and energy Online links enable sharing of open-source knowledge
- ▶ Education games and applications educate individuals while encouraging problem solving and innovation

CLIMATE AWARENESS PROGRAM



Center for Environmental Leadership Training (CELT)

The Center for Environmental Leadership Training (CELT) is facilitated by Climate Institute President, John Topping and is located at the prestigious Dartmouth College in Hanover, New Hampshire. CELT is an educational arm of the Climate Institute and includes Dartmouth College students, faculty, alumni, and a growing team of international virtual interns.

CELT's primary mission is to empower those most affected by climate change and environmental stress to become problem solvers, developing solutions to climate and environmental challenges and disseminate these through multiple means to visitors to the climate.org website and the Tickell Network. The greatest target audience is ages 15 to 29 from Northern New England schools, participants in the Tickell Interactive Climate Theatre Network in Mexico and elsewhere, and from indigenous communities in the US, Canada and Greenland.

Climate Institute Website: www.climate.org

Climate Institute's website www.climate.org acts as the key resource to promote international climate awareness. It provides a variety of online tools, including a directory by country and region of climate-focused organizations, a smart solutions blog which discusses climate problem solving ideas, and an array of educational games on Climate Change, Public Health and Energy Solutions, which are available in English, Spanish, French, Portuguese and Chinese, with plans for Russian, Italian and Polish in the near future. There is also an educational section on various climate science and environmental topics.



In addition, the seasonal publication of the Climate Institute's newsletter, the 'Climate Alert', now in its twenty-second year as a principal source for policy makers on the likely impacts of climate change in the U.S. and abroad, can be found and accessed for free on the website.

Complete List of Tickell Network Partners

UNITED STATES:

- ▶ Center for Environmental Leadership Training, Dartmouth College, USA
- ▶ National Aeronautical and Space Administration (NASA)
- ▶ National Oceanic and Atmospheric Administration (NOAA)
- ▶ The Wild Center, The Adirondacks, NY, USA

MEXICO:

- ▶ Parque Estatal Flor del Bosque, State of Puebla, Mexico
- ▶ Museo Nacional de Historia, Mexico City, Mexico
- ▶ Cuernavaca, State of Morelos, Mexico
- ▶ Case de la Tierra, Veracruz, State of Veracruz, Mexico
- ▶ Acapulco, State of Guerrero, Mexico
- ▶ Chilpancingo, State of Guerrero, Mexico
- ▶ Planetario de Morelia, State of Michoacan, Mexico
- ▶ Metepec, State of Mexico, Mexico
- ▶ Atlocumulco, State of Mexico, Mexico
- ▶ Texcoco, State of Mexico, Mexico
- ▶ Valle de Bravo, State of Mexico, Mexico
- ▶ Villahermosa, State of Tabasco, Mexico
- ▶ Oaxaca, State of Oaxaca, Mexico

GLOBAL SUSTAINABLE ENERGY ISLANDS INITIATIVE

Global Sustainable Energy Islands Initiative



Climate Institute is actively engaged with the international community on Small Island Developing States (SIDS) development issues, and is working to create partnerships that foster sustainable energy development. Launched in 2000, the Global Sustainable Energy Islands Initiative (GSEII) is a consortium of NGOs and multilateral institutions established to support the members of the Alliance of Small Island States (AOSIS) in development of sustainable energy plans, policies, and projects. Coordinated by the Climate Institute,

the consortium includes partners such as SIDS Governments, United Nations Foundation, NGOs, multi-laterals, such as the Organization of American States (OAS) and United Nations Industrial Development Organization (UNIDO), local utilities and private sector companies. The thrust of GSEII is to facilitate the capacity of island states to show larger nations by their own successful examples that a low carbon energy transformation can benefit a nation's domestic economy as well as the global climate.

Why Small Island Developing States?

Small Island Developing States (SIDS) are island and lowlying coastal countries who face similar challenges in sustainable development such as limited resources, poor economic resilience, and vulnerability to natural disasters and climate change. Even though their share of global greenhouse gas emissions is small, these nations are most vulnerable to climate change impacts. It is very likely that some island nations will disappear as a result of sea level rise, while others will experience severe devastation and may become inhabitable.

SIDS spend more than 25% of their foreign exchange on importing fossil fuels. However, most SIDS have significant renewable natural

resources, including solar, wind, geothermal, hydro and biomass, and potential for energy efficiency improvements. Energy independence of SIDS by utilizing renewable resources is the shortest path to their economic development, which will in turn reduce the vulnerabilities of SIDS, enhance their capacity to adapt and develop resilience to face the multitude of other challenges they are confronting. In addition, these Island Economies could become the models for others in spreading a global clean energy revolution. Climate Institute initiatives focus on policy development, capacity building, international outreach, and on-the-ground implementation of renewable and efficiency projects.



Training and Outreach Activities

TRAINING SESSIONS

- ▶ GSEII has organized ten training sessions for utilities on renewable energy and energy efficiency at the Pacific Power Association's annual conferences.
- ▶ Several training sessions on renewable energy technology and policies have been organized for the Caribbean energy officials and utilities professionals in the Caribbean.
- ▶ Training sessions on solar water heaters finance were organized for the credit unions in St. Lucia and Grenada.
- ▶ Training sessions on sustainable and hurricane resilient housing in the Caribbean.

OUTREACH ACTIVITIES

- ▶ Climate Institute has organized at least a dozen special events at international fora, such as the UN conferences on climate change, Commission on Sustainable Development, and international sustainable development conferences for SIDS.
- ▶ In addition, SIDS energy activities have been showcased in numerous regional events in the Caribbean and the Pacific.
- ▶ GSEII continues to publish magazine articles, newsletters, and promotes SIDS energy agenda through its web site, www.gseii.org.

Vision 20/30 - Partnership for Island Economies

VISION 20/30 is a collaborative initiative organized by the Climate Institute as a commitment to the UN Secretary General's initiative of Sustainable Energy for All, which outlines a vision for the independence of small islands from imported fossil energy. The UN initiative seeks to achieve three inter linked global targets by 2030: universal access to modern energy services; doubling energy efficiency; and doubling the share of renewable energy in world's energy supply.

VISION 20/30 presents sustainable energy for island economies as a high impact opportunity and calls on world leaders, donors and aid agencies; international and regional organizations to join forces and support the island nations and participating island economies, so they may achieve energy self sufficiency to the extent technically feasible and economically viable. This initiatives is organizing a partnership of minipartnerships around pilot island nations that may be fast tracked to achieve energy independence by 2020, which it is hoped would lead to the energy transformation of most of the Small Island Developing States by 2030.



Sir Richard Branson and Prime Minister Mike Eman sign an agreement to make Aruba a 100% renewable energy island, at the launch of VISION 20/30 during a side event jointly organized by Climate Institute and the Carbon War Room

GSEII Projects and Activities

Grenada

- ▶ National Energy Policy and Sustainable Energy Plan
- ▶ Nutmeg Shell to Energy Project
- ▶ Earth Home and Sustainable Housing Project
- ▶ Solar Hot Water Heating Financing Program

St Lucia

- ▶ National Energy Policy and Sustainable Energy Plan
- ▶ Hotel Industry Energy Audits and Training
- ▶ Energy Efficient Lighting Project
- ▶ Energy Efficiency and Awareness Campaign
- ▶ Solar Hot Water Heating Financing Program
- ▶ Wind Energy Development
- ▶ Solar Photovoltaic Demonstration Project

Antigua and Barbuda

- ▶ National Energy Policy and Sustainable Energy Plan

Bahamas

- ▶ National Energy Policy and Sustainable Energy Plan

St. Kitts and Nevis

- ▶ National Energy Policy and Sustainable Energy Plan
- ▶ Wind Energy Development
- ▶ Biomass Energy Project



Dominica

- ▶ National Energy Policy and Sustainable Energy Plan
- ▶ Efficiency Improvement in Electric Distribution System
- ▶ Energy Efficient Lighting Project
- ▶ Geothermal Project Pre-feasibility Development

Marshall Islands

- ▶ National Energy Policy and Sustainable Energy Plan
- ▶ Energy Efficient Lighting Project

St. Vincent and the Grenadines

- ▶ National Energy Policy and Sustainable Energy Plan

Fiji

- ▶ Coconut Biofuel Development

Implementation Partners include Climate Institute, Organization of American States and Energy and Security Group. More information available on www.gseii.org



ARCTIC CLIMATE ACTION REGISTRY



Our Mission

The Arctic Climate Action Registry is a new registry dedicated to mitigating greenhouse gases and emissions affecting the Arctic region. Our goal is to stimulate projects that slow down and ultimately reverse the warming of the Arctic, with measurable progress toward this goal by 2015.

Activities of the Registry

The Arctic Climate Action Registry is focused on the following activities:

Project Registry — Arctic Climate Change Mitigation

Companies and other entities can register projects aimed at reducing methane, black carbon, and tropospheric ozone precursor emissions affecting the Arctic region. Examples include:

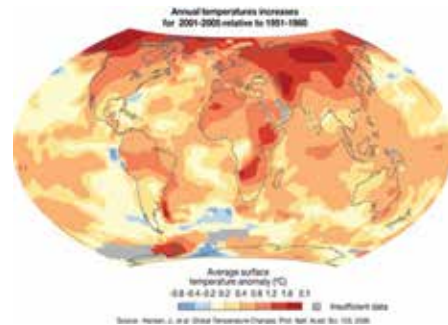
- ▶ Shipping – Equipping ships with electrostatic precipitators to capture black carbon.
- ▶ Forest Fires – Boreal forest crown fire suppression management under FSC guidelines.
- ▶ Airlines – Reduced emissions from airline fleets.
- ▶ Pollution Prevention – Stack emissions capture at electricity production and other industrial facilities.
- ▶ Methane Capture – Methane capture for electricity generation.
- ▶ Geoengineering – Sea salt dispersal and other non-polluting projects over critical areas.

Why Focus on the Arctic?

Climate change in the Arctic region is here. The regional mean temperature in the Arctic is rising far faster than the Earth as a whole. As a result, the perennial Arctic sea ice is disappearing, villages are threatened with inundation, wildlife habitat is disappearing, and the Greenland Ice Sheet is in danger of melting. Moreover, regional warming feedback loops have been set into motion that are accelerating the rate of warming, with potentially devastating implications for the whole planet. Stopping Arctic warming in its tracks is the front line in the fight against global climate change.

What Can Be Done?

As daunting as the challenge of climate change is, there are many opportunities to reverse this warming in the Arctic region through active mitigation efforts. These efforts revolve around reducing emissions of three major contributors to Arctic warming – methane, black carbon, and tropospheric ozone. By focusing on these climate pollutants, The Arctic Climate Action Registry seeks to make a demonstrable difference and point the way toward further efforts that can alter the trajectory of climate change worldwide.



Arctic Climate Impact Profile Certification

Apply life cycle assessment (LCA) based on updated climate indicator assessment protocols* to determine your Arctic Climate Impact Profile.

Arctic Climate Protection Network

Companies, agencies, institutions and individuals can become part of the solution by participating in the Arctic Climate Protection Network.

Arctic Climate Protection Education

Presentation materials for businesses, curricula for schools, and downloadable apps are being developed to create a greater understanding of the importance of solving the Arctic climate crisis.

*Assessment protocols being finalized under the American National Standards Institute process in the SCS-002 Life Cycle Assessment standard.

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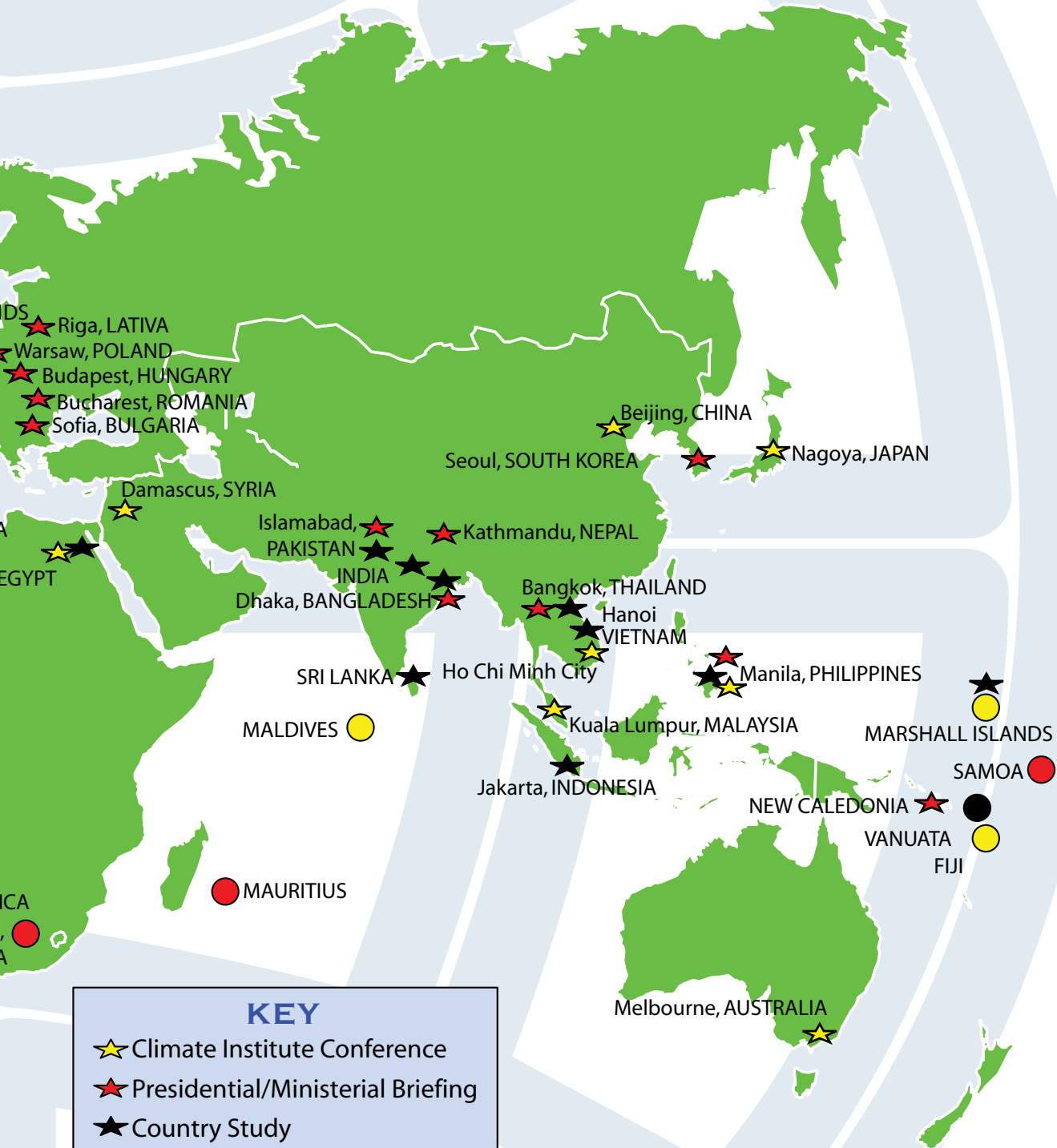
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The Climate Institute has worked with over 40 different countries.

**CLIMATE
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ACTIVITIES
1986-2012**





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