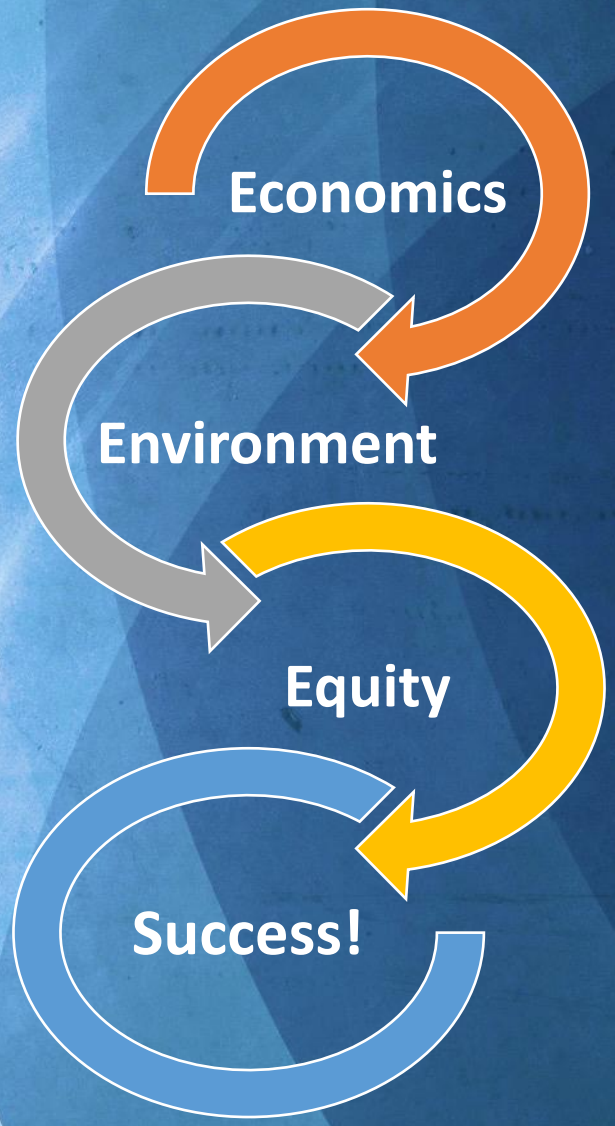


THE CENTER FOR CLIMATE STRATEGIES

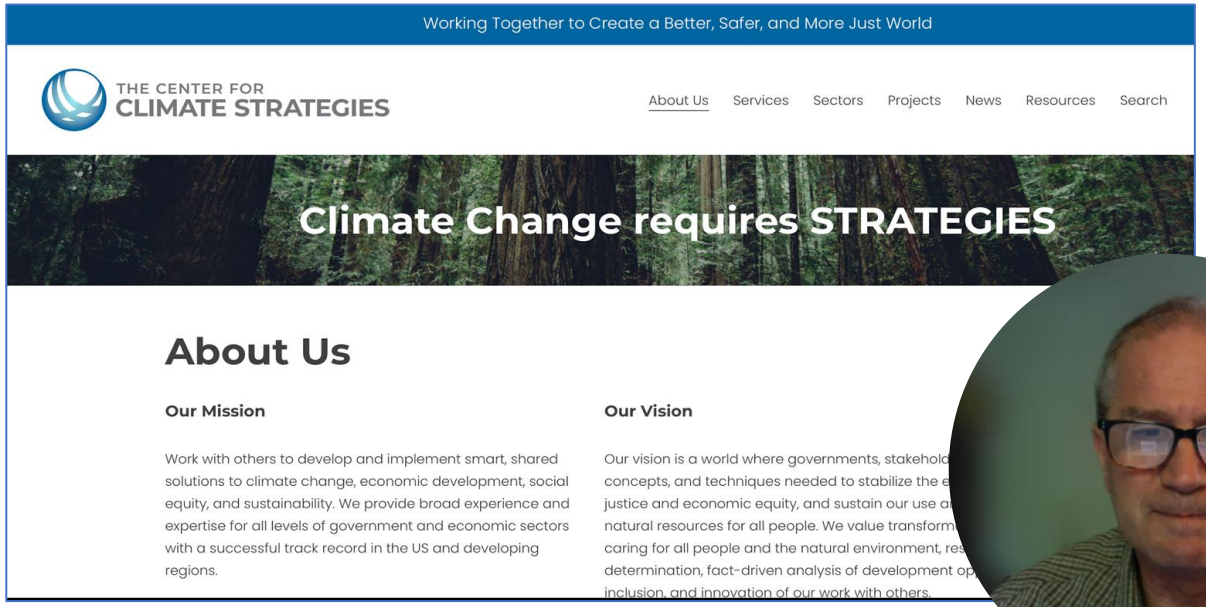
Global Dialogue on the Impacts of the Implementation of Response Measures 2024

Strategies for maximizing co-benefits and minimizing negative impacts in the design and implementation of NDCs

Tom Peterson
President and CEO
The Center for Climate Strat
September 11, 2024

The Center for Climate Strategies, Inc. (CCS)

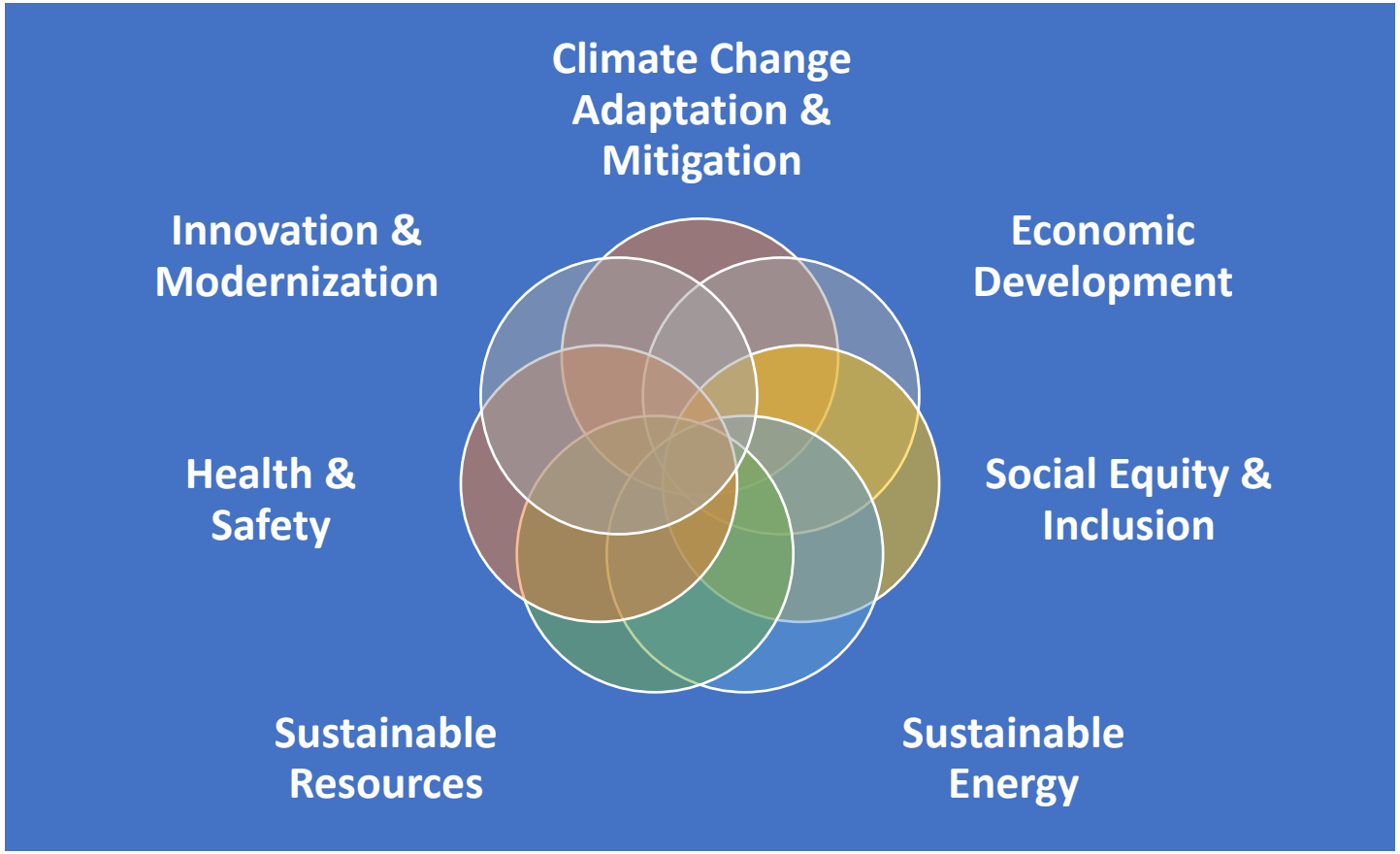
- Founded in 2004, non-partisan, international nonprofit
- Leading catalyst for public and private sector cooperation
- Development and implementation of actions at scale
- Expert training, capacity building, and deployment
- Multi-objective, participatory, decisions, design, analysis
- 100+ high impact national, subnational projects
- Key Regions of the World – Africa, Asia, Europe, Latin America, Middle East, United States

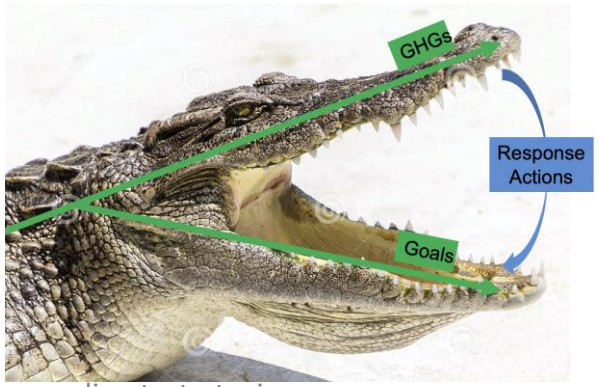


www.climatestrategies.us

THE CENTER FOR CLIMATE STRATEGIES

Multi-objective Approach

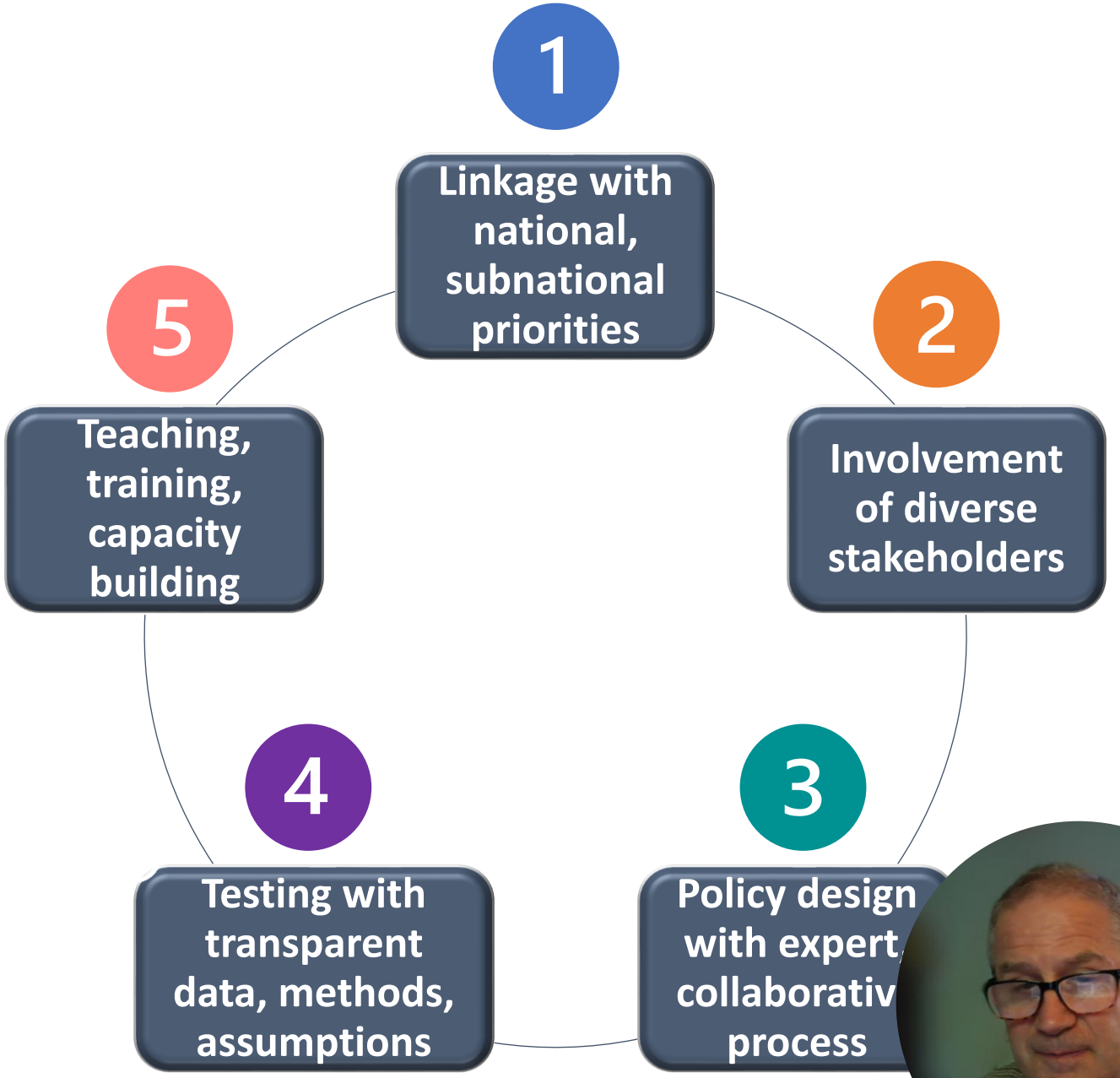




THE CENTER FOR CLIMATE STRATEGIES

www.climatestrategies.us

How to Achieve Multiple Objectives



THE CENTER FOR CLIMATE STRATEGIES

Multi-objective Policy & Investment

Example of Multi-objective Approach

US Inflation Reduction Act, Greenhouse Gas Reduction Fund

ADDITIONAL INFORMATION PROVIDED ON EPA.GOV/GGRF

EPA

EACH SELECTED APPLICANT PROPOSED UNIQUE PROGRAMS THAT ARE RESPONSIVE TO SPECIFIC MARKET CONDITIONS

Example program impacts sampled from the 60 Solar for All selected applicants

Meaningful benefits

Household savings

Solar for All will expand equitable access to solar by providing grants, low-cost capital, and technical assistance to projects, communities, and developers.

All selected applicants have committed to delivering **at least 20% cost savings** to all households who will benefit from their program.

Clean Energy Economy

Selected applicants will help develop a clean energy economy built on **strong labor standards, supports for domestic manufacturing and inclusive economic opportunity for all communities.**

All selected applicants will fund workforce development programs that expand equitable pathways into family-sustaining jobs.

Low-income and disadvantaged communities

Overburdened communities

Solar for All selected applicants prioritize historically overburdened communities including **energy communities, rural cooperatives, industrial communities, Tribal communities, and environmental justice communities.**

As the United States shifts to a cleaner economy, it is vital that no communities get left behind.

Affordable housing

Selected applicants **proposed [illegible] strategies to deploy solar for hou[illegible] supported housing.**

The plans are d[illegible] increase resilie[illegible] delivering elec[illegible]

THE CENTER FOR CLIMATE STRATEGIES

Linkage with National Priorities

Rwanda Case Study

Rwanda's National Strategy for Transformation

Economic Transformation

- Accelerate **private- sector-led economic growth** and productivity
- Sustainable urbanization, productivity of agriculture and livestock, sustainable management of the environment and natural resources towards a green economy

Social Transformation

- **Universal access** to affordable, adequate infrastructure, services

Transformational Governance

- Equitable, transformational, sustainable national de

THE CENTER FOR CLIMATE STRATEGIES

Linkage with National Priorities

Rwanda Case Study

Low-emission Strategy	Co-benefits
Expand Electrification of Rural Areas through **mini-grid, solar home systems**	• Increase energy access • Improve air quality • Improve education and health • Improve productivity and livelihood
Agro-voltaic technologies that allow use of the same land for agriculture and solar photovoltaic power systems	• Avoid CO_2 emissions by displacing fossil-based generation • Local electricity generation to support agriculture activities (e.g., food processing and storage) and population and economic growth • Benefits target specific rural area
Soil Management to **reduce tillage or no-till cultivation** on maize/sorghum; expand multi-cropping of bananas and coffee, terracing, and crop rotations	• Increase carbon seq • Increase climate r • Increase local su • Increase jobs

THE CENTER FOR CLIMATE STRATEGIES

Stakeholder Engagement

Guatemala Case Study

Multi Criteria Screening & Policy Design

MCA Rating for Residential Solar Technology

3. Please provide a rate on each of the criteria for every Residential Solar technology listed below, based on the importance, status, and impacts of the technology on those criteria. *

	Solar Supply potential	Greenhouse gas reduction potential	Economic Development (GDP impacts, jobs, or sector-specific goals)	Financing potential and feasibility	Costs and savings (cost-effectiveness)	Energy diversity
Residential -PV-Rooftop - Fixed	High	Medium	Low	Uncertain	-- Please Select --	-- Please Select --
Residential -PV-Open Space-Fixed	-- Please Select --	-- Please Select --	-- Please Select --	-- Please Select --	-- Please Select --	-- Please Select --
Residential -PV-Open Space-One-axis Tracking	-- Please Select --	-- Please Select --	-- Please Select --	-- Please Select --	-- Please Select --	-- Please Select --
Residential -PV-Open Space-Dual-axis Tracking	-- Please Select --	-- Please Select --	-- Please Select --	-- Please Select --	-- Plea	

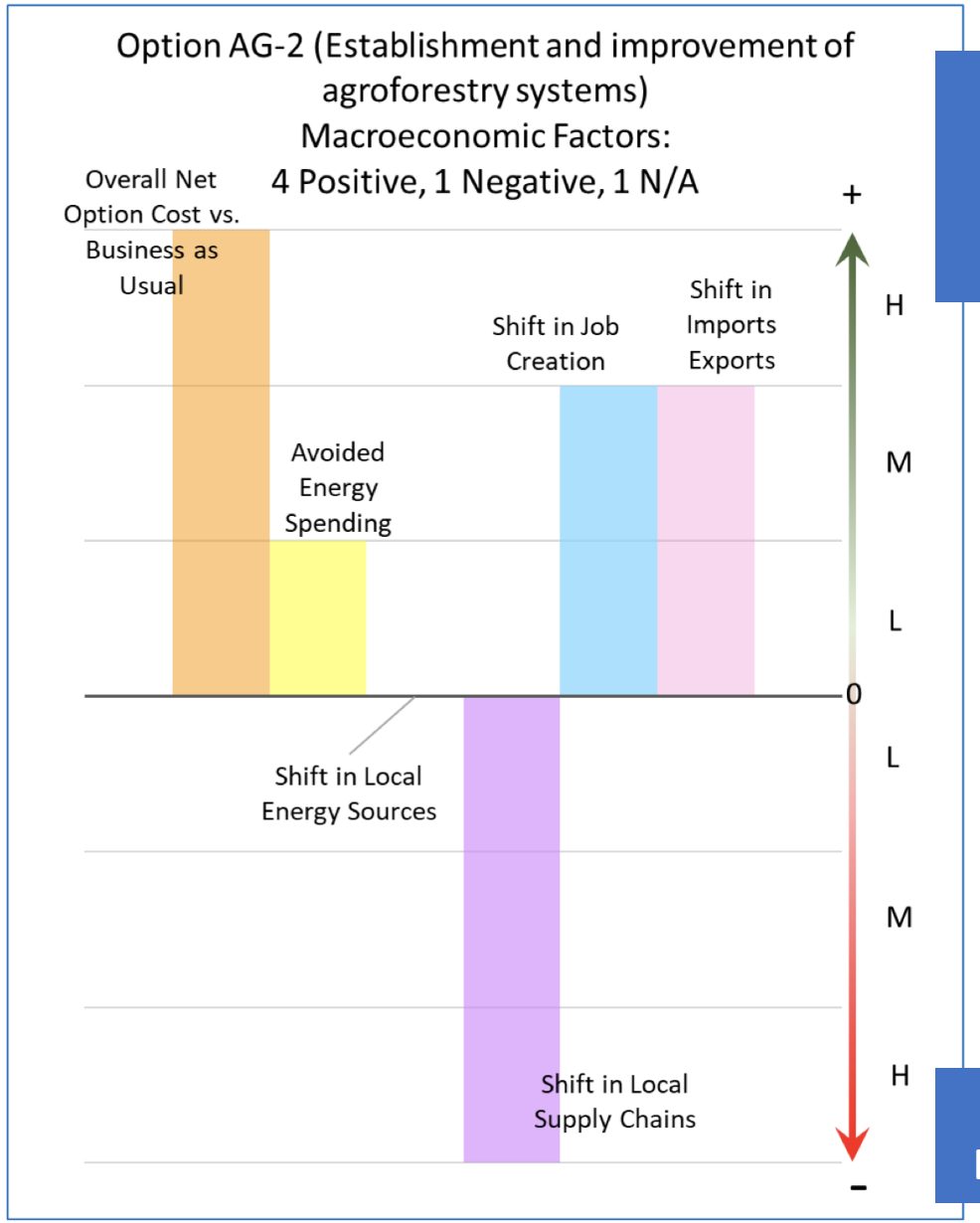
Lo
Develo

THE CENTER FOR CLIMATE STRATEGIES

Stakeholder Engagement

Guatemala Case Study

Figure V.A-3. Example Results from the Qualitative Macroeconomic Assessment



Macroeconomic Indicators Assessment

Lo
Develo

THE CENTER FOR CLIMATE STRATEGIES

Transparent Methodology and Tools

Cote d'Ivoire Case Study

THE CENTER FOR CLIMATE STRATEGIES

Linked Modeling Tool

Analysis Phase	Tools	Notes
Baseline Impacts Forecasted reference case of key metrics	LEAP* Soft Links ArcGIS CCS Analytical Toolkit	• LEAP covers energy and some resource sectors (e.g., agriculture) • CCS Analytical Toolkit covers FOLU and Waste Management sectors not covered under LEAP and EX-ACT (EX-ACT is not designed to develop baseline) • ArcGIS is already in use in the country to support as needed
Direct Impacts (GHGs, energy and resource shifts, net costs/savings) Assessment of Component 1	LEAP Soft Links ArcGIS EX-ACT CCS Analytical Toolkit	• LEAP covers energy and some resource sectors (agriculture, waste management) • EX-ACT covers FOLU sector • CCS Analytical Toolkit as backstopping • GIS support as needed
Indirect Impacts (Socio-economic impacts, i.e., GDP, jobs, income Assessment of Component 1	LEAP Soft Links CCS Macroeconomic Indicators Tool Additional Macro Model TBD (T21, iJEDI, or GTAP)	• CCS Macroeconomic Indicators T • Coupled with a macroecon after further assessment for startup, public acces source), cost, and other
*LEAP serves as the platform for synthesis/integration of all results		

Training & Capacity Building

Bilateral Cooperation

- Technical team formation
- Tool & template development
- Up-front teaching and training
- Project based learning by doing

US-China Carbon

THE CENTER FOR CLIMATE STRATEGIES

Thank You!

www.climatestrategies.us

Tom Peterson
President and CEO

Center for Climate Strategies
tpeterson@climatestrategies.us