



[www.ksclimatechange.us](http://www.ksclimatechange.us)

## **Brief Description of Catalog of State Actions Cross-Cutting Issues (CCI) Technical Work Group (TWG)**

Note that this listing is incomplete and will be fleshed out during the CCI TWG process. TWG members are encouraged to provide input on policies and programs in place in Kansas to assist in defining baselines. The “Notes” column of the CCI Catalog of State Actions should be used to record recently enacted policies and programs in Kansas relevant to a state action in the catalog.

### **CCI-1. Greenhouse Gas Inventories and Forecasts**

Greenhouse gas (GHG) emissions inventories and forecasts are essential for understanding the magnitude of all emission sources and sinks (both anthropogenic and natural), the relative contribution of various types of emission sources and sinks to total emissions, and the factors that affect trends over time. Inventories and forecasts also help to inform state leaders and the public on statewide trends, opportunities for mitigating emissions or enhancing sinks, and verifying GHG reductions associated with implementation of action plan initiatives. Responsibility for preparing GHG inventories and sinks often resides with the environmental agency, which typically has the expertise needed to systematically compile information on GHG sources and sinks using established methods and data sources. Inventory and forecast efforts should be on-going over time reflecting improvements to the accuracy and completeness of data collected.

### **CCI-2. State Greenhouse Gas Reporting**

GHG reporting reflects the measurement and reporting of GHG emissions at a statewide, sector, or sub-sector level to support tracking and management of emissions. GHG reporting can help sources identify emission reduction opportunities and reduce risks associated with possible future GHG mandates by moving “up the learning curve.” Tracking and reporting of GHG emissions can also help in the construction of periodic state GHG inventories. GHG reporting is typically a precursor for sources to participate in GHG reduction programs, opportunities for recognition, and a GHG emission reduction registry, as well as to secure “baseline protection” (i.e., credit for early reductions). Further, collaboration with other states in the development of a GHG reporting program could influence the development of GHG reporting practices throughout the region and nation and build consistency and reciprocity with other state or regional GHG reporting programs. Although GHG reporting is commonly voluntary, some states now require certain sources to report their annual GHG emissions.

**CCI-3. State Greenhouse Gas Registry**

A GHG registry enables uniform measurement and recording of GHG emissions reductions in a central repository. Typically, a registry also includes transaction ledger capability in order to support tracking, management, and ownership of emission reductions. Registries can help encourage sources to undertake GHG reduction efforts, enable potential recognition for such actions, provide baseline protection, and support the crediting of GHG mitigation actions. A registry can also provide a mechanism for regional, multi-state, and cross-border cooperation. Examples of existing registries include The Climate Registry (<http://www.theclimateregistry.org/>) and Chicago Climate Exchange (<http://www.chicagoclimatex.com/>).

**CCI-4. Statewide Greenhouse Gas Reduction Goals or Targets**

Some states have established GHG reduction goals or targets; in these cases, the comprehensive, stakeholder-based climate action planning process typically serves to identify and quantify policies and measures by which these goals can be achieved. In states that have not specified goals or targets prior to the planning process, the establishment of goals or targets is often considered in concert with the State after the initial quantification results for other policy options become available.

**CCI-5. The State's Own GHG Emissions (Lead-by-Example)**

In terms of GHG emissions, states are not only political jurisdictions that can provide incentives to, or impose regulatory requirements on, sources and citizens in order to reduce pollution. They are also significant emitters, by virtue of state-owned buildings, fleets, and various emitting activities. States can reinforce the importance of reducing GHG, promote others to act in this direction, and often demonstrate the economic upside of doing so by putting their actions where their concerns are. For example, states can purchase low-emission vehicles for their fleets, utilize bio-fuels in their vehicles, construct and/or retrofit their buildings to be more energy efficient, purchase green or renewable electricity or apply pollution prevention principles to GHG emission reductions. States can also commit to initiatives or actions focused on GHG reductions, such as The Climate Registry (<http://www.theclimateregistry.org/>) and Chicago Climate Exchange (<http://www.chicagoclimatex.com/>). Some states have also elected to require recipients of state-funded projects to reduce the carbon footprint of the projects through the form of “climate-neutral bonding” (meaning no net increase in GHG emissions within the bond issuing agency’s geographical jurisdiction after the project becomes operational). In addition, some states have also included in their comments on environmental studies (environmental assessments and environmental impact statements) prepared for federal projects a request that GHG impacts of the projects be considered.

**CCI-6. Comprehensive Local Government Climate Action Plans**

The relationship between local government jurisdictions and the state echoes in many ways the federal relationship between states and the U.S. Government. It may therefore be appropriate to

enable, assist, and otherwise encourage local governments to pursue comprehensive, multi-sector climate action plans within their jurisdictions. Analogous to the state effort, local climate planning initiatives could involve local stakeholders, identify and address local mitigation opportunities, establish local emission inventories and/or forecasts, set local GHG reduction goals or targets, consider local climate impacts and possible adaptation responses, develop long-term sustainability plans, etc. The state should encourage local governments in such efforts and contribute technical and other assistance to the extent possible.

#### **CCI-7. State Climate Public Education and Outreach**

Public education and outreach can comprise and/or support GHG emissions reduction programs, policies, or goals. Public education and outreach is vital to fostering a broad awareness of climate change issues and effects among a state's citizens (e.g., co-benefits such as clean air and public health). Ultimately, public education and outreach is the foundation for the long-term success of all policy initiatives.

#### **CCI-8. Market-Based Greenhouse Gas (GHG) Reduction Policies**

Tax and cap policies (typically considered as carbon taxes and cap-and-trade programs respectively) can be among the most economically effective means to reduce GHG emissions. By internalizing costs that are currently not assessed (i.e., are "externalized"), such policies create financial incentives for entities to reduce their emissions – reducing emissions reduces costs.

A carbon tax would be relatively simple and easy to implement and would apply to all sectors. Utilities would pay it based on their emissions and pass the cost to consumers in their monthly electric bill. Individuals would pay it when they fill up cars with gasoline. A carbon tax would also encourage efficiency improvement in all sectors. A carbon tax does not necessarily mean a net increase in the cost of living, because revenues could be "recycled" to lower other, currently assessed taxes.

Cap-and-trade programs typically establish an upper limit on emissions (the "cap"), usually lower than current emissions, which creates the drive for reductions. Also established are "allowances" or "rights to emit" which are allocated or auctioned to covered sources. Sources need to match their emissions to the amount of allowances that they hold, but can trade allowances freely among themselves. The result is that sources that find it least expensive to reduce emissions "over-comply" (i.e., have more allowances than they need) and can sell allowances to sources for which making reductions would be more expensive. This dynamic encourages sources to pioneer innovative ways to make reductions, so they will need fewer allowances and may even be able to profit by selling allowances. The broader the universe of sources (e.g., types of sources covered, geographical region covered, etc.), the more likely it is that cost differences will be found, thereby reducing the overall cost of the program. The Midwestern Governors Greenhouse Gas Accord is examining the viability of a regional cap and trade approach.

**CCI-9. Seek Funding for Implementation of Climate Panel Recommendations**

Allocation of some resources under existing state programs and initiatives can be targeted to achieving state climate goals. However it is likely that additional resources may also be needed to implement the recommendations in the state plan. Therefore, the state and others will need to consider seeking and stimulating additional funding and investment in climate solutions identified in the state plan.

**CCI-10. Adaptation and Vulnerability**

Because of the build-up in the atmosphere of long-lived GHGs that already has occurred, states will experience the effects of climate change for years to come, even if immediate action is taken to reduce future GHG emissions. As such, it is essential that the state develop a strategy to manage and adapt to the projected impacts of ongoing climate change, particularly where the state is most vulnerable.

**CCI-11. Participate in Regional or Multi-state GHG Reduction Efforts**

Regional approaches can offer broader and more streamlined market opportunities to reduce GHG emissions in collaboration with partner states or other organizations. Regional and multi-state organizations have formed in several parts of the country to reduce GHG emissions. Examples are the Northeast States Regional Greenhouse Gas Initiative (RGGI) (<http://www.rggi.org/>), the Midwestern Regional Greenhouse Gas Reduction Accord (<http://www.midwesterngovernors.org/govenergynov.htm>), and the Western Climate Initiative (<http://www.westernclimateinitiative.org/Index.cfm>).

**CCI-12. Clearinghouse to Facilitate Investment in Climate-Related Business Opportunities**

The intent of this policy option is to encourage and facilitate the involvement of funding and investment sources, business interests, and entrepreneurs in pursuing business opportunities associated with GHG reductions and global warming solutions as quickly and as significantly as possible. The creation of a clearinghouse-like entity may make it possible to match technology developers and other climate solution entrepreneurs with necessary financing more effectively and expeditiously. As a result, a state's ability to identify and secure early business opportunities associated with climate change may be enhanced, increasing its global competitive advantage and job creation within the state.

Potential funding sources include philanthropic organizations, high net worth individuals, or others interested in supporting innovative, environmentally effective market solutions. Recognizing that fortunes are likely to be made in the "new energy economy," for-profit investors, pension funds, mutual funds, and/or venture capitalists may be looking to fund similar business opportunities. Although technology entrepreneurs are often cited as offering potential global warming solutions, equally progressive solutions may lie in the fields of law, accounting, marketing, production, and even government relations and lobbying. The objective of this policy option is to leverage a state's specific talents for global warming solutions into securing the

business opportunities and market advantages that well-supported “early bird” efforts are likely to reap in a carbon-constrained world.

**CCI-13. Encourage the Creation of a Business- Oriented Organization to Share Information and Strategies, Recognize Successes, and Support Aggressive GHG Reduction goals**

Successful state GHG reduction efforts are highly dependent on active participation of the business community, particularly in the energy, agriculture, transportation, development and manufacturing sectors. In order to facilitate a strategic approach that has an optimal impact, a statewide pro-active business organization could be formed to address climate opportunities and risks.

**CCI-14. Greater Public Investment to Climate Data and Analysis**

In order assure cost-effective investment of resources it is essential to have accurate and current data and information about GHG emissions and impacts and also state of the art computer modeling capabilities. High quality data and accurate predictive capabilities are key elements in being able to plan strategically and track progress over time in reducing GHG emissions. It is also important to integrate efforts of multiple entities gathering GHG data so that additional monitoring and data collection resources are effectively utilized. One example might be formation of a state climate data and analysis center to develop and provide objective, state-specific information regarding climate data, analysis, assessment of options and directions, identification of trends, development or improvement of computer modeling, and other information to government, business, and the public.

**CCI-15. Facilitate the Development of an Effective Carbon Credit System**

Carbon credit systems can encourage development of carbon markets (and offset techniques). The state could purchase carbon credits associated with its own activities, function as a purveyor of credits to others, act as a certification entity of others carbon exchanges or participate in a regional credit system if one is part of a Midwestern Governors GHG Accord Cap and Trade system.

The CCI TWG may want to recommend that a “Market Advisory Group” of experts be formed to provide guidance to the state on the design of market-based compliance programs to manage GHG emissions. Note that the State of California has formed a Market Advisory Committee (MAC) to help develop a GHG Cap and Trade system in California. The California MAC has formulated a set of guiding principles and has developed an initial set of recommendations for a California Cap-and-Trade program.

[Note: This option may overlap with elements of other work groups such as the Energy Supply (ES) TWG. The CCI TWG will coordinate with the ES TWG to ensure consistency and to avoid duplication of effort during development of CCI-15., if chosen]