Cancun Sectoral Frameworks

Following our commitment to the Cancun Statement of Federated States & Regional Governments on Low Carbon & Climate Resilient Development we will further develop specific policies and/or financial mechanisms within our remit to reduce greenhouse gas (GHG) emissions, stimulate green jobs and promote renewable energy.

We will continue to provide The Climate Group with update on the actions taken in our jurisdiction in line with the existing profile templates.

In our engagement with The Climate Group we will more specifically aim to make commitments on one or more of the areas below and will provide information on our progress against these ahead of COP 17 in Durban.

Efficient & New Energy Vehicles

Recognizing that 17% of energy-related CO_2 emissions arise from road transport and the sector's contribution to the additional challenges of poor urban air quality and energy insecurity

We will work with our partners[1] to:

- **Encourage** the reduced use of fossil fuels in road transport;
- **Enact** appropriate legislation and financial mechanisms within our remits to encourage buyers towards more efficient internal combustion engine (ICE), sustainable alternative fuel (including liquefied petroleum gas) and electric (including full electric and plug-in hybrid electric) vehicles;
- **Support** the development of low emission vehicles (for example through financing research and development activities, implementing pilot projects, ensuring the technical design of plugs and charging technology is harmonized, providing incentives for the purchase and/or use of electric vehicles);
- **Phase out transport** fossil fuel subsidies for vehicles where applicable and where other low carbon options are available; and
- **Put systems in place** to ensure green energy is available for Electric Vehicless, based on the size and capacity of our respective regions.

We aim to:

- **Adopt** alternative fuel and electric vehicles through our directly-owned fleets, subject to fiscal restraints, with the goal of securing significant new fleet purchases in this category within our regions;
- **Take all reasonable steps** within our jurisdiction to encourage the adoption of alternative fuel and electric vehicles within the wider vehicle fleet, with a goal of securing significant growth in alternative fuel and electric vehicles our regions;
- **Encourage** co-operation between commercial fleet owners within our jurisdictions to co-ordinate sharing of information and joint procurement of alternative fuel and electric vehicles (i.e. purchasing coalitions) where appropriate;[2]
- **Engage** with business within our jurisdiction to maximize the sales of alternative fuel and electric vehicles; and
- **Track and report** on our respective actions[3], aspiring to the introduction of a significant and transformational number of alternative fuel and electric vehicles onto the road by the end of 2020 through our collective action.

[1] 'Partners' refers to areas that aren't directly under state control (i.e. recognising that states will have to partner with federal and local levels of government to achieve the goals outlined in this document).
[2] inspired by the models developing in the Netherlands (DC-TEC), France (UGAP) and Sweden (Elbilsupphandling) for plug-in electric vehicles
[3] based on the respective manufacturing capacities of our regions

Energy Efficient Lighting Systems

Recognizing that lighting accounts for 6% the world's energy related greenhouse gas (GHG) emissions and 19% of the world's electricity use

We will work with our partners to:

- **Incentivize** efficient lighting technologies, in particular LEDs and smart lighting controls where appropriate, as they hold particular promise for achieving efficiencies approaching and
- **Support changes to** state building energy codes and street/roadway lighting policies that call for greater energy efficiency in lighting,

We aim to:

Encourage reduced GHG emissions from use from (indoor and outdoor) lighting set individual targets, for the reduction in GHG emissions from electricity use from government-operated outdoor lighting by 2020

- **Engage** with business within our jurisdiction to maximize the sales of energy efficient lighting and smart lighting controls;
- **Work with our transportation departments** to explore and adopt the most promising energy efficient technologies for use on street and roadways, where possible LED lighting and smart lighting controls where appropriate;
- **Work with departments that manage our government-owned buildings** and facilities to retrofit widely the most energy efficient lighting technologies,
- **Encourage co-operation** between our regions to co-ordinate sharing of information with regards to the scale-up of LEDs with smart controls; and
- **Track** our respective actions to in line the above goals.

SMART Technology

Recognizing that 80% of global energy consumption occurs in cities

We will work with our partners to:

- **Encourage legislation** to deliver the co-benefits of economic development and environmental performance through 'smart green technologies' – particularly in the areas of monitoring, electricity, fuel or resource efficiency and optimization;
- **Support** the usage of open and secure protocols and standards for data access and communications in smart meters, smart transportation and smart grid rollouts; and
- **Incentivize** smart green technologies.

We aim to:

- **Encourage** reduced GHG emissions from electricity consumption in urban environments by adopting innovative solutions, policies and finance mechanisms to stimulate the scale-up of 'smart' services and green cities;
- **Adopt** a individual targets, where possible, to contribute an overall 20% reduction of CO_2e emissions in government-owned buildings, relative to 2010 levels;
- **Encourage co-operation** through a partnership of cities, regions and companies to develop awareness of the value case for 'smart' services in cities, and adopt policies and finance mechanisms to support smart technology;
- **Engage business** within our jurisdiction to develop smart green technologies; and
- **Track** our respective actions in line with the above goals.

Renewable Energy

Recognizing that fossil fuels are a finite resource and that the energy sector[4] accounts for 28% the world's GHG emissions

We will work with our partners to introduce policies to:

- **Increase the uptake** of renewable energy; and
- **Support the development** of emerging renewable energy technologies

We aim to:

- Set ambitious targets to increase the deployment of renewable energy and report against these targets
- Implement policies to assist with the development of emerging renewable energy technologies so that they can be deployed commercially
- **Share knowledge** on strategies and technologies to overcome impediments to greater take-up of renewable energy, including those addressing enabling infrastructure;
- **Encourage** the transfer of skills, experience and data acquired from experience with renewable energy to support our commitment to engaging with developing state and regional governments; and
- **Engage business and other stakeholders** within our jurisdiction to move swiftly to increase the deployment of renewable energy.

[4] Electricity and Heat