

APPENDIX 12

APEC Actions to Promote Widespread Usage of Electric Vehicles

Recognizing that greater regulatory cooperation and regulatory alignment on Electric Vehicle (EV) standards can boost the widespread usage of electric vehicles in our economies;

Seeing that APEC economies have identified reducing fossil fuel consumption, reducing pollution, and growing renewable sources of energy as key environmental objectives;

Building on discussions and recommendations from the 2011 ARCAM, specifically to promote:

- *Regulatory Convergence and Cooperation*
- *Green Growth*
- *Smart Grid Interoperability Standards*

Taking into account previous studies and progress in ongoing work in other international fora, such as the United Nations' global harmonization efforts for electric vehicles; and

In order to provide greater certainty and predictability for trade and investment in EVs to promote EV use, production, and trade, and to support greater collaboration and partnerships among governments, industries, international fora, and developers of international standards¹ (for example, UNECE, ISO, and IEC, among others).

We agree to:

- Pursue technical coordination to support harmonized standards and regulatory approaches in the region for both electric vehicles and their parts, including interoperability between vehicles and their charging infrastructure, with a view to avoiding and reducing regulatory divergences and adoption of unique EV standards or regulations and taking into account work in existing international fora (for example, in the UNECE, ISO, and IEC, among others);
- Undertake further regulatory cooperation and communication activities in APEC that include regulators, industries, international fora, and developers of international standards, to facilitate the achievement of the above action;
- Actively participate to the greatest extent possible in the UNECE WP.29 1998 Agreement process to promote the development of Global Technical Regulations on EVs, in particular on electric vehicles safety and the environment;
- Actively participate to the greatest extent possible in EV international standards development and harmonization efforts;
- Identify technical areas where alignment could be achieved to facilitate trade and investment and enable accelerated EV deployment;

¹ See Decision of the WTO TBT Committee on Principles for the Development of International Standards, Guides and Recommendations with relation to Articles 2, 5 and Annex 3 of the Agreement.

- Work towards adoption of aligned approaches to electric vehicle charging and communications, which could include using interoperable charging connectors for electric vehicles in each APEC

- Use international standards, where appropriate, as the basis for any new regulations pertaining to electric vehicles;
- Draft in coordination with industry a list of priority international standards for promoting widespread usage of electric vehicles in the region;
- Promote EV-specific first responder education and training efforts to ensure the safe and energy efficient operation of EVs;
- Establish in 2015 an APEC EV Interoperability and Research Center in cooperation with the established interoperability centers in the United States and Europe to further assist economies in promoting EV use, production, and trade, and to support greater global collaboration and partnerships among governments, industries, international fora, and developers of international standards. This Center will draw from existing international resources and fora, and provide technical and market analysis and support for helping APEC economies achieve the following goals:
 - Alignment of EVs, charging systems, infrastructure, and communications;
 - Promotion of aligned vehicle-to-charging infrastructure connectivity and communication for electric vehicles in all APEC economies;
 - Alignment of EV, battery, and interoperability test procedures and verification tools;
 - Alignment of test procedures for energy consumption of EVs;
 - Assisting economies in using renewable sources of energy for powering EVs; and
 - Exchanging information on international EV initiatives, industry conferences, and regulatory best practices.
- Thoroughly discuss and draft an APEC Roadmap for Electric Vehicles in 2015 to carry forward these actions.