Day 1, August 5, 2015: The Vision for Renewable, Distributed Energy
Location: California Energy Commission, 1516 9th St., Sacramento, California

7:30 Registration

For participants staying at the Westin Sacramento, registration opens at 7:30 and closes at 8:00. Breakfast will be held at the Westin. Participants are asked to meet in the lobby by 8:30 for a shuttle to the CEC building. Please bring your identification with you.

9:00 Session 1: Welcome, Introductions and Stage-setting

- Welcome
  Mr. Ned Helme, President, Center for Clean Air Policy (CCAP)

- Keynote Address: California’s Vision for Power Sector Transformation
  Commissioner David Hochschild, California Energy Commission (CEC)

  California has been a leader in energy policy in the United States, with cutting-edge strategies for promoting renewable energy, energy efficiency, and distributed energy. Commissioner Hochschild will provide an overview of California’s ongoing transformation of its energy sector and shift towards renewable and distributed energy resources. The Commissioner will also discuss California’s vision for the future, including its 50% renewable energy target, and its 12 GW of distributed generation by 2020 target. Finally, the Commissioner will touch upon California’s international involvement, including its recent agreement with 11 subnational actors on bold climate action before Paris.

- The German Energy Transition: Successes in Renewable Energy and Energy Efficiency
  Mr. Markus Kurdziel, International Climate Initiative (IKI), Germany

  Mr. Kurdziel will share Germany’s successes under the Energiewende in adding renewable energy supply and implementing energy efficiency policies, and their impact on energy security, job creation and climate goals.

10:30 Coffee Break

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1“Distributed energy” is defined to include distributed generation of renewable energy resources, demand response, energy efficiency, and energy storage.

- **The Green Climate Fund and National Climate Pledges Leading to Paris**  
  *Mr. Ned Helme, CCAP*

  Mr. Helme will discuss the opportunity presented by the Green Climate Fund (GCF) to support transformational change in the energy sector. He will review the selection criteria that the GCF will use to approve proposals. He will also discuss how the electricity sector can factor into a country’s intended nationally determined contribution (INDC) in the lead up to the international climate negotiations in Paris in December 2015.

- **Power Sector Reform in Mexico: an Overview by CRE and SENER**  
  *Dr. Francisco Barnés de Castro, Former Commissioner, Energy Regulatory Commission (CRE)*  
  *Mr. Luis Muñozcano, Deputy Director General of Renewable Energy, Secretariat of Energy (SENER)*

  Representatives from Mexico will share how the country is instituting numerous policies to transform the energy sector, focusing in particular on the economic and political impetus behind the reforms, overcoming barriers, and the country’s future direction.

  During discussion, participants will be invited to share their own experiences in energy sector reform, as well as any current initiatives to design GCF proposals.

- **Respondent: Ms. Beatriz Olivet, Environmental Advisor to the National Directorate of Energy, Uruguay**

12:30 Lunch

1:30 Session 3: Grid Stability, Energy Planning, and Resiliency

Adding distributed energy can provide greater resilience to the grid as a whole, but integration into the grid can be a challenge. This session will focus on the main challenges and concerns associated with bringing more distributed, renewable energy online, including technical challenges of operating the grid, overcoming intermittency through battery storage, trends toward local ownership of energy, reduced line losses, increased operational flexibility and automation, and other regional energy market trends in developing countries. The session will also touch upon the climate (both mitigation and adaptation) impacts.

- **Mr. Gerardo Canales, Latin America Projects Manager, CCAP**

  Mr. Canales will open the session with a short overview of technical challenges MAIN countries are currently facing in regards to managing grid and transmission issues.

- **Dr. Lorenzo Kristov, Principal of Market and Infrastructure Policy, California Independent Systems Operator (CAISO)**

  Dr. Kristov from the California Independent Systems Operator (CAISO) will give an overview of how the grid is operated, how they currently accommodate intermittent and distributed energy resources, what future investments are needed to maintain grid reliability, and how technology advancements and other policies assist in balancing the grid (such as advanced demand response policies and battery storage technology).
Mr. David Palchak, Energy Systems Engineer, National Renewable Energy Laboratory (NREL)
As part of the Greening the Grid Initiative, Mr. Palchak will discuss key issues and emerging solutions to integrating variable renewable energy into the grid, such as the costs of integrating intermittent sources and means of creating flexible power systems.

Respondent: Mr. Widya Adi Nugroho, Head of Technical Section on New and Renewable Energy, Ministry of Energy and Mineral Resources, Indonesia
Discussion will focus on identifying the grid issues participants face in bringing distributed and intermittent generation online, and how countries are addressing these issues.

3:45 Coffee Break

4:00 Session 4: Advancements in Smart and Clean Energy Technologies
Battery storage, demand response, and advanced metering infrastructure are all technologies that contribute to a smarter, more efficient, low-carbon grid. This session will provide an overview of some of the best available technologies today, how far costs have come down and how current technology can work together to reduce energy use and promote smarter, more efficient grids.

Mr. Alan Solomon, Supervisor II, Energy Systems Research Office, Energy Research and Development Division, CEC
Mr. Solomon from CEC will explain the different technologies that make up a smart grid, from smart meters, to battery storage and EV charging, and how they can work together to meet a growing demand for electric services.

Mr. Oscar Medina, National Advisory Council for Energy Strategy, Ministry of Energy, Argentina
Mr. Medina will discuss how smart meters technologies are being piloted on-the-ground in Argentina and the results of those pilots.

During discussion, participants will be asked to share how they view advanced and emerging clean energy technologies, and what are realistic options for advanced clean tech, such as battery storage, to meet energy demand.

5:15 Adjourn

5:30 Welcome Reception
Cafeteria 15L
1116 15th St. Sacramento, CA 95814

All participants and speakers are invited to join us at Cafeteria 15L for a welcome reception hosted by CCAP, located a 10 minute walk or short taxi ride from CEC.
Day 2, August 6, 2015: Overcoming Barriers and Building Drivers
Location: ClimateWorks Foundation, 235 Montgomery St. Suite 1300, San Francisco, CA

7:00  Meet in Westin Sacramento Lobby for Bus to San Francisco

Participants are asked to meet in the Westin Sacramento lobby at 7:00 for the bus to San Francisco. Breakfast will be provided.

9:45  Welcome Remarks
Dr. Jan Mazurek, Clean Power Director, ClimateWorks Foundation

10:00  Session 5: California Public Utilities Commission (CPUC) President’s Welcome and Overview
President Michael Picker, President, CPUC

President Michael Picker will deliver a welcome address that looks at how CPUC policies (as well as complementary efforts from the CEC, ARB, and CAISO, such as AB 32 implementation) promoting distributed energy resources and changing roles for utilities can work together to facilitate and encourage the development of distributed resources. This includes the 12 GW of distributed generation by 2020 goal, AB 327, the California Solar Initiative, and net metering, as well as CPUC’s long-term procurement planning.

10:30  Session 6: Regulatory Reforms and Economic Incentives to Promote Distributed Energy Resources

This session will cover different regulatory reforms that can be implemented to promote distributed and renewable energy, such procurement goals for demand response and energy efficiency, as well as economic incentives for distributed generation, such as rate design for net metering that avoids shifting grid costs. Speakers will discuss the challenges to implementing different reforms and their effectiveness, both from a regulatory and a utility perspective.

- Dr. Stephen St. Marie, Policy and Planning Division, California Public Utilities Commission
  California has a favorable regulatory environment for distributed energy resources (DER). Dr. St. Marie will discuss key regulations that encourage utilities, customers, and third parties to pursue investments in DER. He will discuss the Loading Order, the ongoing Distribution Resource Planning (DRP) proceeding, and newly adopted rate design that aligns rates with costs and consumption.

- Mr. Bill Tyndall, Senior Vice President of Commercial Strategic Initiatives, Duke Energy
  Mr. Tyndall will discuss how different regulatory environments can help or hinder Duke Energy’s involvement in DER projects (for example, how Duke Energy operates differently in California versus in North Carolina), and what policies have promoted utility transition and incentivized investment across the states (ex: decoupling policies).

  During discussion, participants will be invited to share the specific reforms they are working on and discuss how the policies presented by the speakers may or may not offer viable options for them to consider.
1:30 Session 7: Two Implementation Models for Deploying Distributed Energy Resources

This session will focus on different business models that have been successfully employed to increase distributed energy, and how they address different challenges, such as who may own generation assets or finance upfront costs. These models should incentivize utilities and other parties to transform the energy sector in an efficient and innovative way.

- **Mr. Dhaval Dagli, Principal Manager of Regulatory Policy, Southern California Edison (SCE)**
  Under the right regulatory framework, DER can be profitable rather than a threat to existing utilities. This presentation will provide an overview of how an incumbent utility in California has been successful in pursuing new lines of business as California has undergone power sector reform to promote renewable energy and energy efficiency. Mr. Dagli will delve into DER and the role of a utility in being a facilitator for DER. The business model can differ based on whether the utility exists in a regulated vs. deregulated market. New information from utilities’ integrated distributed energy resources map (as a result of California’s AB 327 rulemaking) is expected to influence this discussion.

- **Mr. Sanjay Ranchod, Vice President of Policy & Electricity Markets and Regulatory Counsel, SolarCity**
  Third-party financing is a popular growing model for deploying distributed renewable resources, allowing customers to pay little upfront while reducing their electricity bills. Third-party financing of solar rooftops has become the primary financing means for domestic systems in the United States – in California, almost 80% of all new solar installations were installed through third-party ownership. Mr. Ranchod will discuss key drivers behind the rise of this financing model and what policy frameworks, such as net metering, have enabled the success of their business.

- **Respondent: Ms. Anna Maria Reodica, Renewables Program Manager, Manila Electric Company (MERALCO), Philippines**

The discussion session will give participants an opportunity to converse about which implementation models may be more realistic or feasible in their own countries, and what barriers need to be overcome to implement new models or bring utilities onboard.

3:15 Coffee Break

3:30 Session 8: Key Takeaways and Next Steps in the Context of International Climate Action

This final session will focus on assessing the domestic applicability of the range of policies and regulatory actions discussed over the last two days, and how such measures can fit into a country’s climate pledge (INDC). The session will also gather feedback on useful topics for future energy dialogue meetings, including specific policy and regulatory examples, approaches to overcoming specific barriers, and the management systems and tools needed to expand renewable and distributed energy.
• **Mr. José Carrasco, Head of Electricity Markets, National Energy Commission, Chile**
  Mr. Carrasco will discuss the formation of Chile’s INDC and how they foresee the role of actions in the energy sector, including the integration of distributed energy resources, entering into their strategy.

• **Roundtable session**
  Following Mr. Carrasco’s presentation, participants will engage in a roundtable session focused on how to take action within the international context, specifically looking at GCF financing and the submission of INDCs to the UNFCCC.

• **Mr. Ned Helme, CCAP**
  Closing Thoughts

5:15    Adjourn

5:30    Dinner and tour of Pier 39

  *Dinner will begin at 6:30pm. Dinner will be hosted at Neptune’s Waterfront Grill and Bar, 2 Beach St. San Francisco, CA 94133.*

8:30    Return bus to Sacramento

**Day 3: August 7, 2015 – Country Consultations and Site Visit**

Location: Westin Sacramento, 4800 Riverside Boulevard, Sacramento CA 95822

*Breakfast is on own, and included in the per diem.*

9-11    Small group country consultations with CCAP Staff

  *Country teams are asked to meet at Scott’s Seafood Restaurant at the following times for consultations with CCAP:*

  9:00am: Colombia, Costa Rica, Indonesia, Peru, Uruguay
  9:30am: Argentina, Philippines, Panama
  10:15am: Pakistan, Chile

11:15   Lunch

  *A buffet lunch will be provided at the Westin, at Scott’s Seafood on the River.*

12:20   Board bus for field trip

  *Participants are asked to meet in the lobby by 12:20 if attending the CAISO tour.*

1:00    Tour of California Independent Systems Operator (CAISO) Tour followed by discussion

  *Participants are asked to bring their U.S. government-issued ID or passport on the tour.*

3:00    Board bus for return

3:30    Return to Hotel