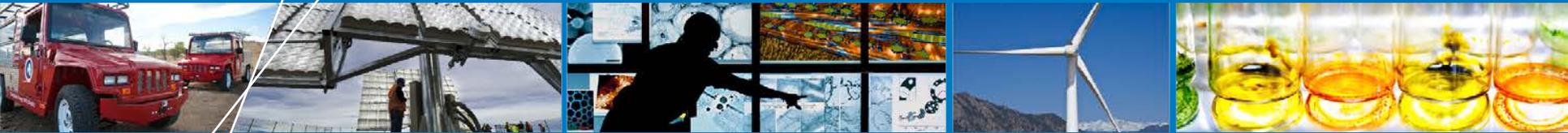


Realizing Clean Energy Futures: *U.S.-China Cooperation*



Doug Arent

Executive Director, JISEA

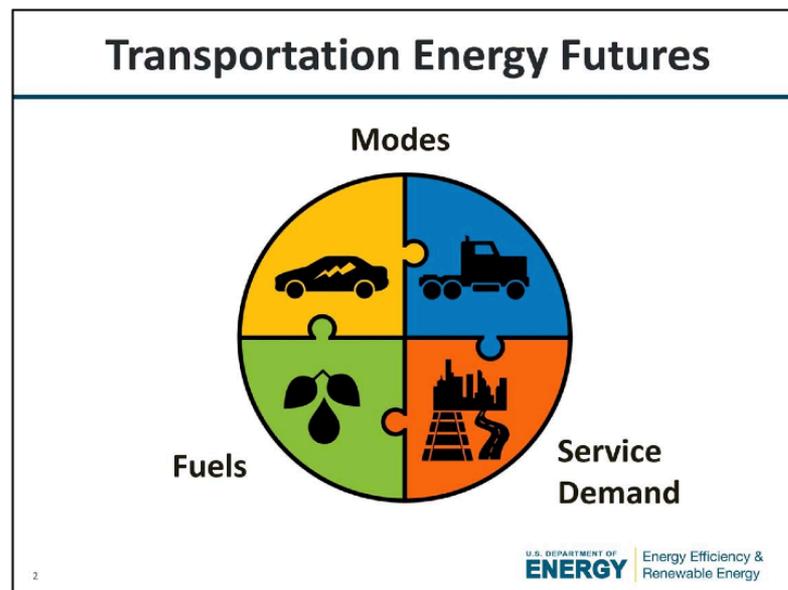
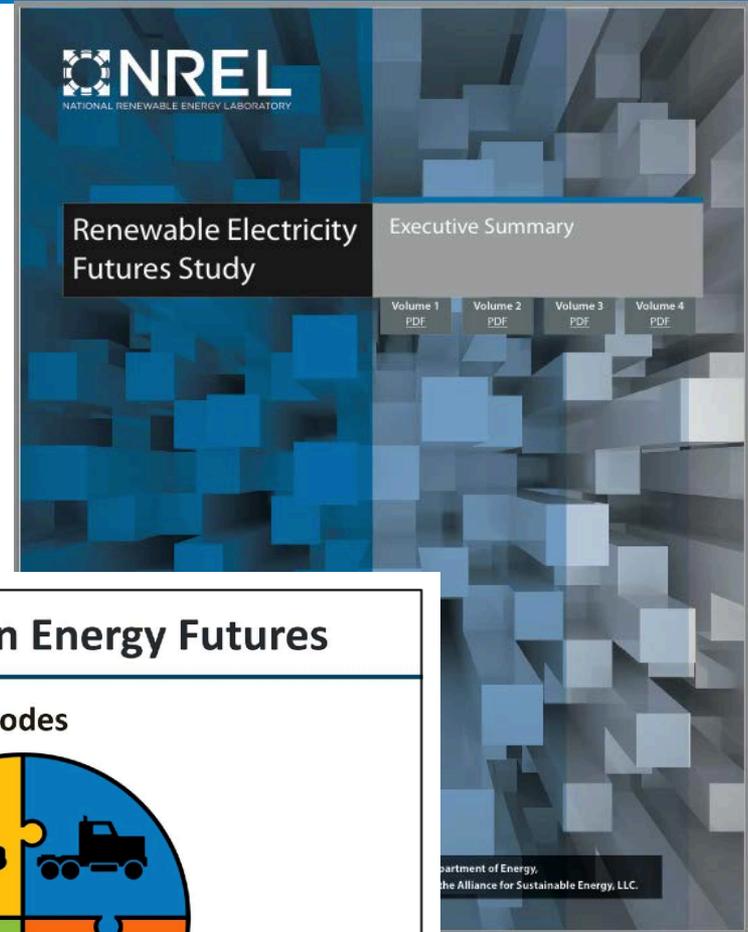
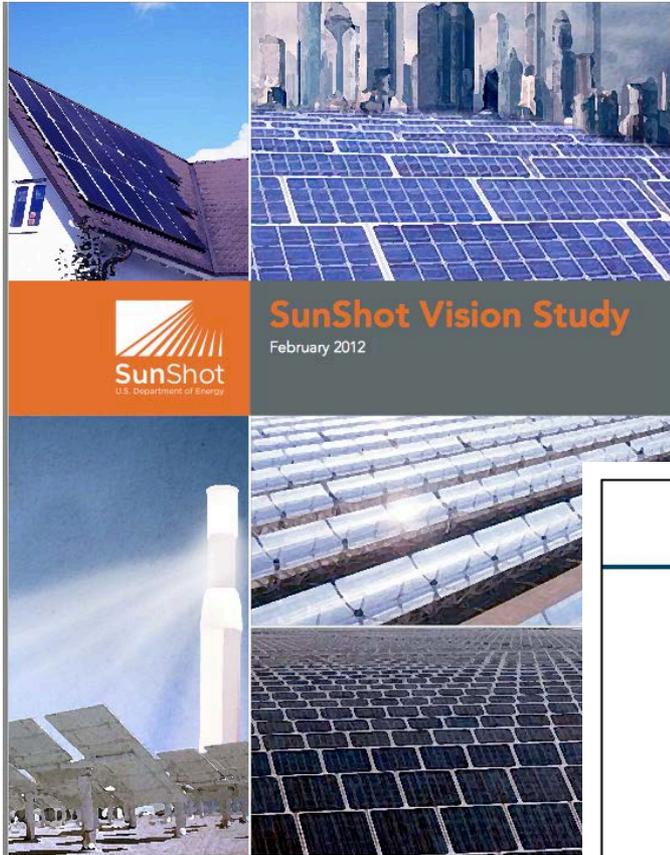
June 2015

Informing Decisions



Building on a foundation of robust data and innovative models and tools, objective analyses informs policy and investment decisions as RE/EE technologies move from innovation through integration.

Illuminating Possibilities



Realizing the Potential: Challenge and Opportunity

Analyzing technologies, policies, and markets to help enable basic and applied clean energy innovation, accelerate technology introduction and adoption, reduce investment risk, and allow for integration of RE/EE technologies at scale.





Systems-Level Thinking Essential as Energy/ Environment/Economy Connections Grow

“Systems thinking” is a discipline for seeing wholes. Patterns as well as particulars. Helping policymakers and planners understand the impacts of technologies, financing and policy options on RE/EE development and deployment.

Real World Impacts – Theory Into Practice

Clean Cities National Parks Initiative

Clean Cities partners with the [National Park Service](#) (NPS) through the Clean Cities National Parks Initiative to support transportation projects that educate park visitors on the benefits of reducing petroleum use and greenhouse gas emissions. This initiative implements the NPS [Climate Friendly Parks](#) program by demonstrating the mental benefits of reducing petroleum use.



REBUILDING IT BETTER: GREENSBURG, KANSAS

High Performance Buildings Meeting Energy Savings Goals

Introduction

On May 4, 2007, a massive tornado destroyed or severely damaged 95% of Greensburg, Kansas. Since then, city and community leaders have been committed to rebuilding the town as a model sustainable community.

Experts from the U.S. Department of Energy (DOE) and the National Renewable Energy Laboratory (NREL) worked with city leaders, business owners, and residents to identify ways to incorporate energy efficiency and renewable energy technologies into the new buildings. The town showcases energy-saving best practices that can be replicated not only in other communities recovering from disaster, but any location focused on sustainability.

The Town of Greensburg

Founded in 1886, Greensburg had a population of approximately 1,400 people prior to the tornado, and relied on the agricultural, oil, and gas industries to sustain its economy. According to the Greensburg Sustainable Comprehensive Plan 2008, Greensburg had 515 single-family residences, 215 rental properties, a school, many businesses along a few downtown blocks, and city offices.

As the seat of Kiowa County, Greensburg was also the location for the county courthouse, Kiowa County Memorial Hospital, county library, and other county functions. The city of Greensburg acted as a municipal utility, selling electricity, water, sewer, and trash services to Greensburg customers.

Like so many other rural towns across America, Greensburg had been experiencing a steady decline in population over the past several decades. In contrast to a disaster that affects isolated parts of a community, the near-complete devastation in Greensburg made long-range and comprehensive community planning imperative before substantial rebuilding could begin. Rather than moving away after the tornado, Greensburg residents turned disaster into opportunity and created a vision to rebuild as a sustainable community.

Greensburg's efforts to rebuild green are paying off. Thirteen Greensburg buildings are saving a combined total of \$200,000 in energy costs per year.

The town's energy goals are driven by key values that are emphasized in the community vision:

"Blessed with a unique opportunity to create a strong community devoted to family, fostering business, working together for future generations."

Project Locations



EDIN

Energy Development in Island Nations

EDIN works to advance the deployment of renewable energy and energy efficiency technologies on islands across the globe.

- About EDIN
- Partners
- Projects
- Resources
- Contacts



The international partnership for Energy Development in Island Nations (EDIN) helps islands across the globe adopt energy efficiency measures and deploy renewable energy technologies.

Find out how you can become involved in this partnership:

EDIN partners support island clean energy projects by helping project participants find the technology, financing, and policy solutions that allow them to tap into their renewable energy resources and deploy energy efficiency measures.

Participant and Project Selection Criteria

EDIN project participants receive support in developing policy, using energy technologies, and obtaining financing. Learn about EDIN's criteria for selecting both projects and participants.

Clean Energy Information Resources

EDIN provides the tools and information you need to deploy renewable energy and energy efficiency technologies.



Learn about EDIN's [U.S. Virgin Islands project](#).

NEWS

Learn the latest news about EDIN. [▶](#)

U.S. Virgin Islands Signs Agreement for Large-Scale Solar Power Project
June 5, 2012

WAPA Signs Agreements with 3 Companies for \$65 Million in Solar Energy Development
June 5, 2012

WAPA Signs Solar Energy Contracts
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WAPA's Solar Project Moving Ahead
May 25, 2012

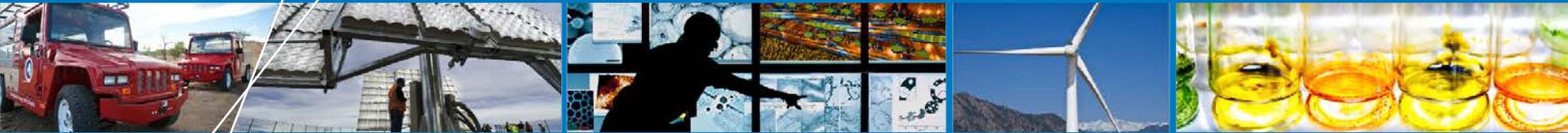
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EVENTS

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实现清洁能源的未来： 中美合作



Doug Arent

执行董事, JISEA

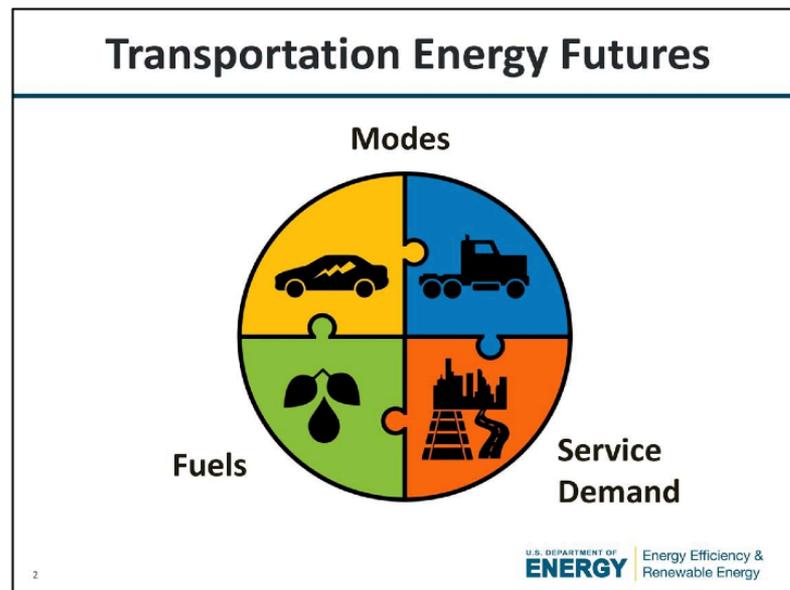
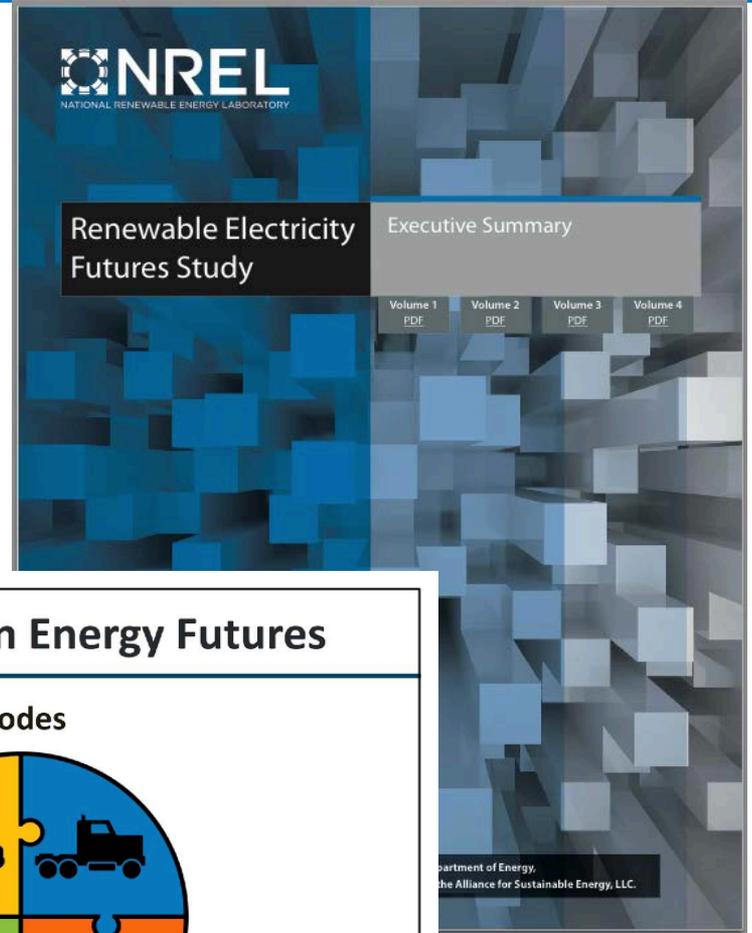
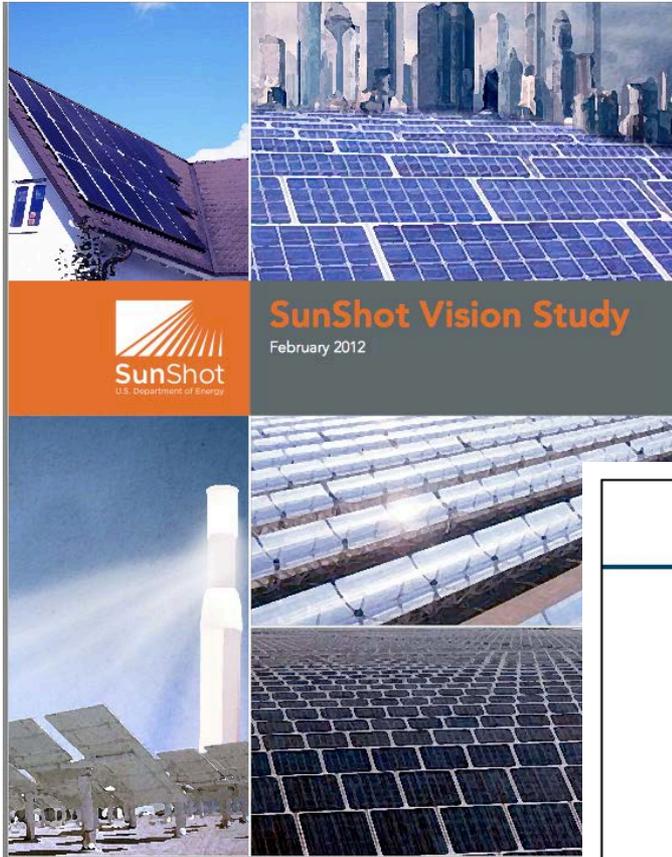
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信息决策



随着可再生能源/能源效率技术从创新到并网，在可靠数据、模式与工具创新以及对政策信息和投资决策客观分析基础上建立信息决策。

应用前景



实践：挑战与机遇

分析技术、政策和市场有助于清洁能源创新,加快技术引进和应用,减少投资风险,允许大规模可再生能源 / 能源效率技术的并网.





随着能源/环境/经济 之间关系的发展，系 统层面思考的本质

“系统思考”是一门关注整体的学科。既有模式也有细节。帮助决策者和规划者理解在可再生能源/能源效率开发和部署方面的技术,融资和政策选择的影响

现实意义-理论到实践

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U.S. DEPARTMENT OF ENERGY | Energy Efficiency & Renewable Energy



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