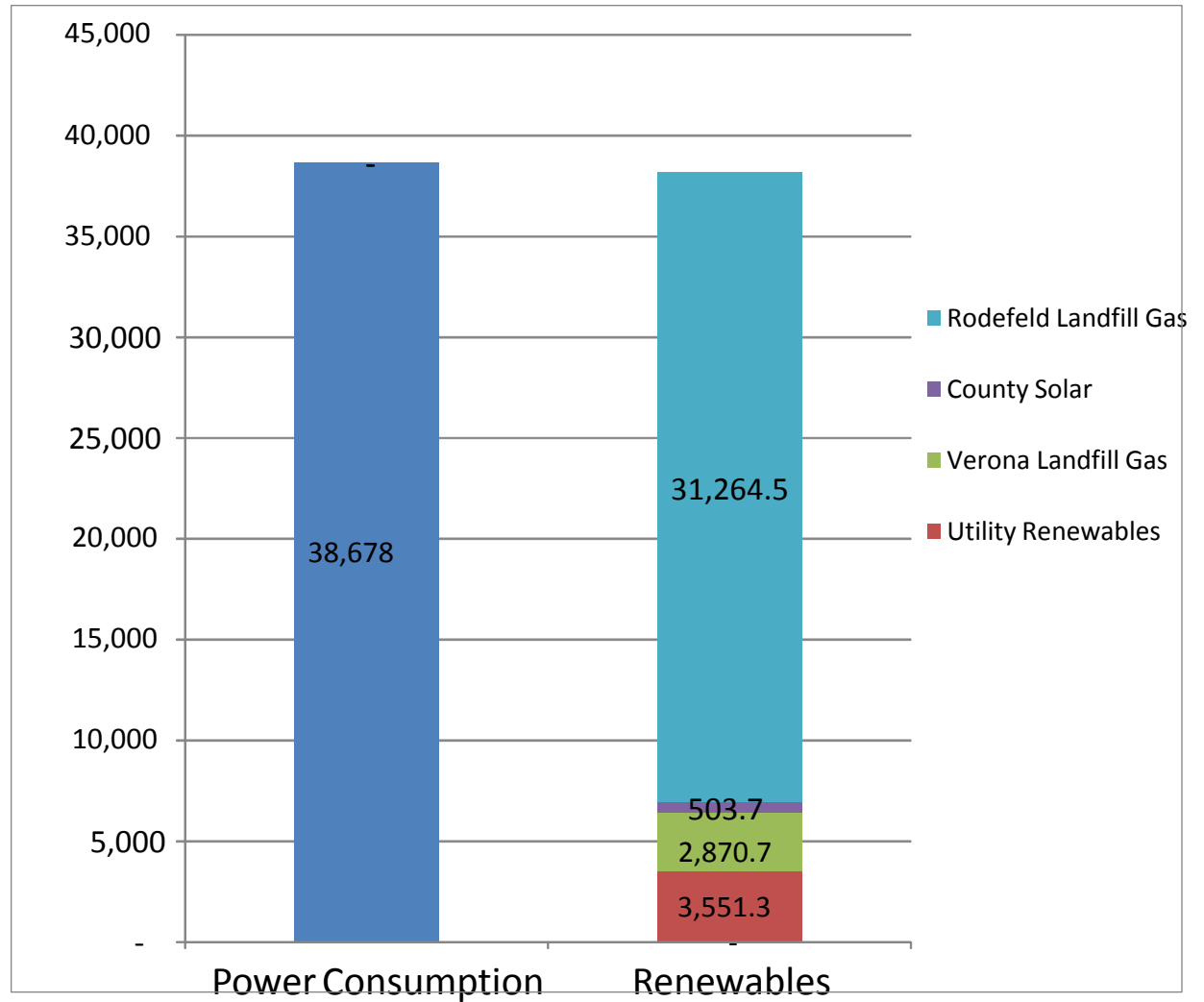


Office of Energy and Climate Change

Keith Reopelle, Director

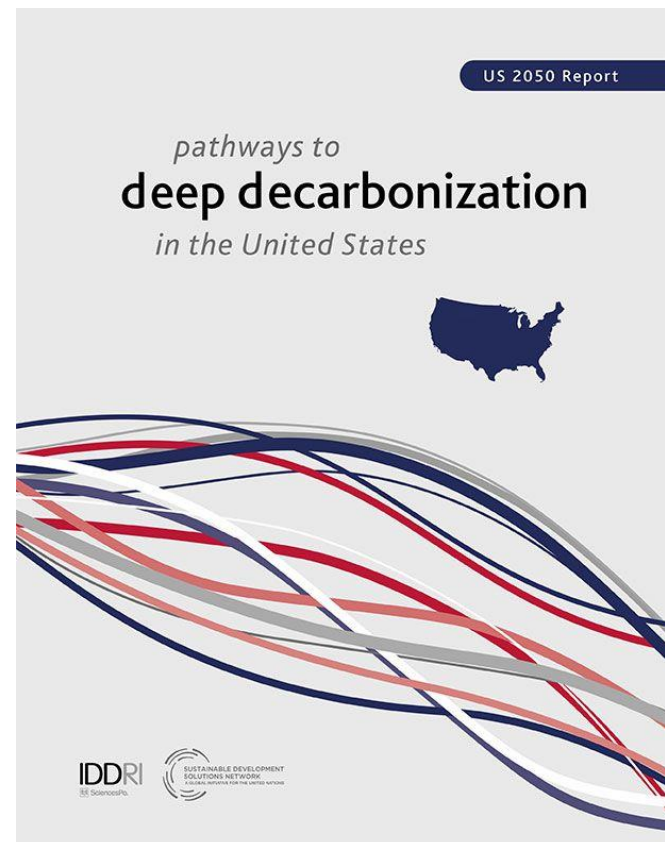


Dane County
2016
Operations
Electric Load
vs. Renewable
Generation
(MWh)



Dane County Climate Change Council Goal:

- Develop a climate mitigation action plan that will put Dane County on a path to deep decarbonization (GHG emissions), and establish Dane County as a national leader on climate mitigation.
- Consensus Support for the CAP



Overarching Areas of Emphasis:

- Develop a climate mitigation action plan that:
 - demonstrates that deep de-carbonization policies, programs and projects will result in major **economic benefits**;
 - demonstrates that deep de-carbonization actions will result in major **health benefits**;
 - demonstrates that deep de-carbonization can be achieved in a **just and equitable** way; and
 - demonstrates how **rural and urban** citizens and stakeholders can come together and support and respect each other's roles in addressing one of the biggest challenges of our time.
 - Demonstrates how reducing GHGs will increase **energy security**.



Focus on Energy: 4 year period 2011 – 2014



- Generated sales of \$5.5 billion
- Generated 6,200 net job years (and 13,000 out to 2038)
- Increased net personal income by \$1.4 billion
- Generated \$638 million in economic benefits (gross state income), (and \$2.8 billion out to 2038)
- Generated \$6.66 in economic benefit for every \$1 invested

The Resulting Climate Action Plan will Include:

- GHG reduction targets (short, mid & long-term)
- An emissions inventory
- Carbon emission reduction policies (to be adopted at the municipal level and implemented in the public and private sectors).
- Carbon emission reduction projects.
- Carbon emission reduction programs.
- Modeling results

Working Groups will Include:

- Energy Efficiency
- Electricity Supply/Generation
- Agriculture, Forestry & Food
- Transportation & Land Use
- Buildings
- Water—Energy Nexus
- Adaptation
- Public Engagement
- Modeling



Renewable CNG Filling Station



Tracking Proposed Programs, Policies and Projects

- GHG reductions
- Equity (how accessible is the solution to all citizens)
- Cost
- Economic benefits
- Feasibility
- Temporal aspect (how soon can it get done)
- Health benefits, direct and co-benefits
- Energy Security (does it increase resiliency)

Policy/Program/Project Ideas to Get You Thinking

- Net Blue – Water Neutral Growth Initiative
- Expand compressed biogas to convert entire Dane Co fleet, then municipal fleets, then private
- Carbon Farming Program
- Dane County energy efficiency program

Challenge Yourself--and the Group/Council!!!

- To think BIG!
- To be creative and innovative!
- To grow and work together!



- “If rapid emission reductions do not begin soon, the burden placed on young people to extract CO2 emitted by prior generations may become implausibly difficult and costly.”

James Hanson et. al. July 18, 2017

Dane County Office on Energy and Climate Change

Questions?

Comments?

Suggestions?

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