About the Iowa Energy Office

» Designated as state energy office via Governor, Iowa Code and US Department of Energy
» At Iowa Economic Development Authority since 2011
» Non-regulatory
» Focus on strategic direction, stakeholder engagement, communication with state agencies and implementation of programs
Iowa Energy Plan

» Led in 2016 by then-Lt. Governor Kim Reynolds, IEDA and Iowa DOT
» Year-long process, four working groups
» Plan and Resources released 2016
» Progress Report released 2018
Seven Key Focus Areas of Iowa Energy Plan

<table>
<thead>
<tr>
<th>Economic Development and Energy Careers</th>
<th>Iowa’s Energy Resources</th>
<th>Transportation and Infrastructure</th>
<th>Energy Efficiency and Conservation</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓ Energy workforce development</td>
<td>✓ Biomass conversion potential</td>
<td>✓ Natural gas expansion</td>
<td>✓ Access to energy expertise in rural areas</td>
</tr>
<tr>
<td>✓ Technology-based R &amp; D (e.g. energy storage pilot projects)</td>
<td></td>
<td>✓ Grid modernization vision</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>✓ Alternative fuel vehicles</td>
<td></td>
</tr>
</tbody>
</table>

Further Strategy and Plan Development:
- **Biomass Conversion Action Plan** - 2018
- Electric Vehicle Infrastructure Support Study – coming in 2019
IOWA PROGRAMS AND PROJECT OPPORTUNITIES
The Iowa Public Buildings Benchmarking Program serves as a tool for public buildings to track their energy usage. Currently there are over 2,200 buildings enrolled.
B3 Benchmarking

» An “apples to apples” comparison of similar public buildings within the State of Iowa and the Midwest

» Interfaces with EPA Portfolio Manager

» Energy “Report Card” provides the user a snapshot of their buildings’ energy performance over time

» Provides building managers the data needed to gain support from upper management to implement energy efficiency projects

Contact Adrienne Ricehill to Enroll & Receive Training: adrienne.ricehill@iowaeda.com
Volkswagen Settlement Funding

- Volkswagen to spend approximately $15 billion on three programs nationally
  - Buy Back/Emissions Modification | $10 billion
  - Zero-Emissions Vehicle Modification (ZEV) Investment | $2 billion
    - Through its new company, Electrify America
  - Environmental Mitigation Trust | $2.9 billion
    - Allocated to states – Iowa to receive ~$21 million
    - Iowa DOT administering funding, website and email updates available

- Iowa Energy Office / Iowa Clean Cities
  - Serving on state agency working group assisting DOT
  - Conducting outreach to stakeholders on alternative fuel vehicle projects
  - Released Alternative Fuel Vehicle Readiness Guide
  - Planning webinar after DOT release of funding applications
Iowa’s Eligible Mitigation Activities

» Focuses on replacing older, MY2009 or older diesel vehicle with new diesel, alternative fuel or electric vehicles.

» 15% of funding going to Zero Emission Vehicle (ZEV) Investments, targeting electric vehicle charging stations.

<table>
<thead>
<tr>
<th>Mitigation Category</th>
<th>Funding Percentage</th>
<th>Estimated Application Cycle Total</th>
<th>Estimated Trust Fund Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class 4-8 Buses</td>
<td>45%</td>
<td>$3,150,000</td>
<td>$9,450,000</td>
</tr>
<tr>
<td>Freight and Port Drayage Trucks</td>
<td>15%</td>
<td>$1,050,000</td>
<td>$3,150,000</td>
</tr>
<tr>
<td>Non-Road Transport and Equipment</td>
<td>10%</td>
<td>$700,000</td>
<td>$2,100,000</td>
</tr>
<tr>
<td>ZEV</td>
<td>15%</td>
<td>$1,050,000</td>
<td>$3,150,000</td>
</tr>
<tr>
<td>DERA</td>
<td>15%</td>
<td>N/A</td>
<td>$3,150,000</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
<td>N/A</td>
<td>$21,000,000</td>
</tr>
</tbody>
</table>
Iowa Energy Center (IEC)

- SF 513 signed into law May 12, 2017
  - Transferred management and responsibility of the Iowa Energy Center from ISU to IEDA
  - IEDA-IEC Mission – To support activities which align with the 7 key focus areas of the Iowa Energy Plan
- Official transfer took effect October 1, 2017
- Administrative rules being developed with IEC Board
- Programs anticipated to open for applications by spring 2019
- The Iowa Energy Center’s funding source sunsets on July 1, 2022
IEC Grant Program

- Eligible grant recipients: businesses, colleges/universities, private non-profit agencies/foundations
- Competitive grant program
- At least one funding announcement per year
- Must align with one of the 7 focus areas of the Iowa Energy Plan
- Must provide a benefit for Iowa ratepayers
- Interested in supporting transformative, innovative, pilot-scale projects
IEC Loan Program

» Alternate Energy Revolving Loan Program (AERLP)
  - Began in late 1990s, enacted in Iowa Code
  - Over $14 million revolving in program
  - Zero interest on AERLP funds
  - Loans up to $1 million
  - Eligible projects: small hydro and AEPs

» Definition of Alternate Energy Production (AEP) Facility
  - Solar
  - Wind turbine
  - Waste management
  - Resource recovery
  - Refuse-derived fuel
  - Agricultural crops and residue
  - Wood-burning
  - Related improvements and facilities
Resources for Potential Applicants

- **Iowa Solar Energy System Tax Credit** – Iowa Dept of Revenue
  - Annual cap of $5 million in the program.
  - The Iowa Solar Energy System Tax Credit equals a percentage of the federal tax credits offered for solar energy systems. Currently, the federal credit equals 30 percent of installation costs.
  - Residential: 50% of the federal credit. Iowa credit cannot exceed $5,000.
  - Business: 50% of the federal credit. Iowa credit cannot exceed $20,000.

- **Modified Accelerated Cost-Recovery System (MACRS)**
  - Businesses may recover certain investments through depreciation deductions on federal taxes

- Public and non-profit entities can utilize Power Purchase Agreements with private companies, which can claim credits
  - Customer makes payments over predetermined period of time. Private system owner handles operations and maintenance.
  - [PPA Checklist for State and Local Governments](#) by NREL
  - [Steps to a Successful Solar Request for Proposal](#) by the Solar Foundation
Resources for Potential Applicants

Tools from the National Renewable Energy Lab

- **Wind Prospector tool**: includes wind speed and direction data at several heights, air pressure, etc. (NREL)
- **PVWatts Calculator**: develop energy production and cost estimates of potential PV installations
- **System Advisor Model (SAM)**: makes performance and cost of energy estimates based on varying installation, operating and design parameters.
- **RE-Opt Lite**: recommends an optimal mix of renewables, conventional generation and energy storage.
Contact Information

» Stephanie Weisenbach, Program Manager
   Iowa Energy Office
   515.348.6221
   stephanie.weisenbach@iowaeda.com
   https://www.iowaeconomicdevelopment.com/energy