

# ***Iowa Energy Office Program Updates***

***Quad Cities Renewable Energy Conference  
November 9, 2018***

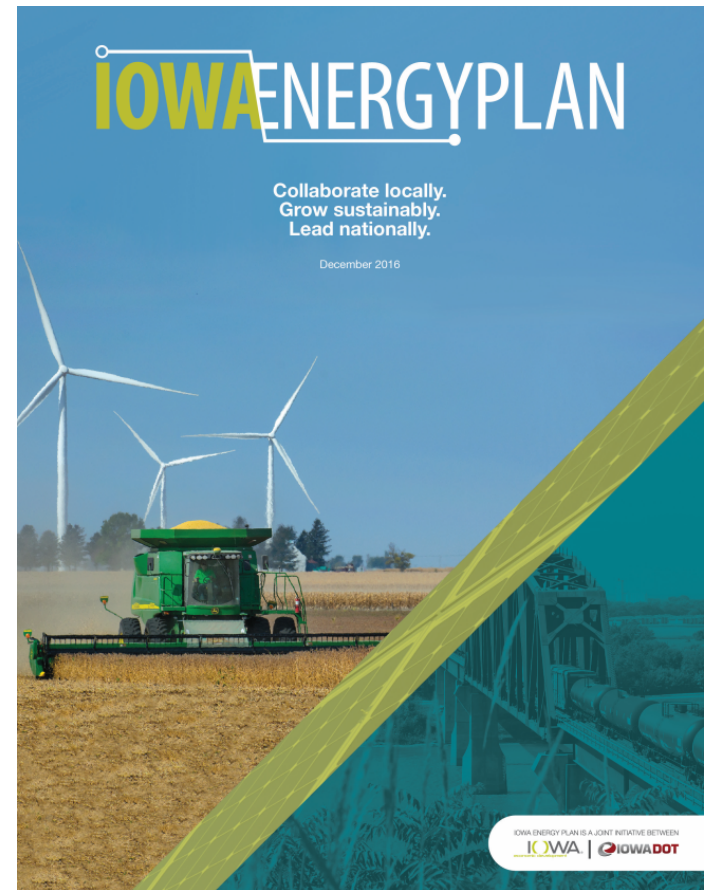
Stephanie Weisenbach  
Iowa Energy Office

# 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

Economic Development and Energy Careers	Iowa's Energy Resources	Transportation and Infrastructure	Energy Efficiency and Conservation
<ul style="list-style-type: none"><li>✓ Energy workforce development</li><li>✓ Technology-based R &amp; D (e.g. energy storage pilot projects)</li></ul>	<ul style="list-style-type: none"><li>✓ Biomass conversion potential</li></ul>	<ul style="list-style-type: none"><li>✓ Natural gas expansion</li><li>✓ Grid modernization vision</li><li>✓ Alternative fuel vehicles</li></ul>	<ul style="list-style-type: none"><li>✓ Access to energy expertise in rural areas</li></ul>

Further Strategy and Plan Development:

- [Biomass Conversion Action Plan](#) - 2018
- Energy Storage Action Plan – coming in 2019
- Electric Vehicle Infrastructure Support Study – coming in 2019

Iowa Energy Office

# **IOWA PROGRAMS AND PROJECT OPPORTUNITIES**

# B3 Benchmarking

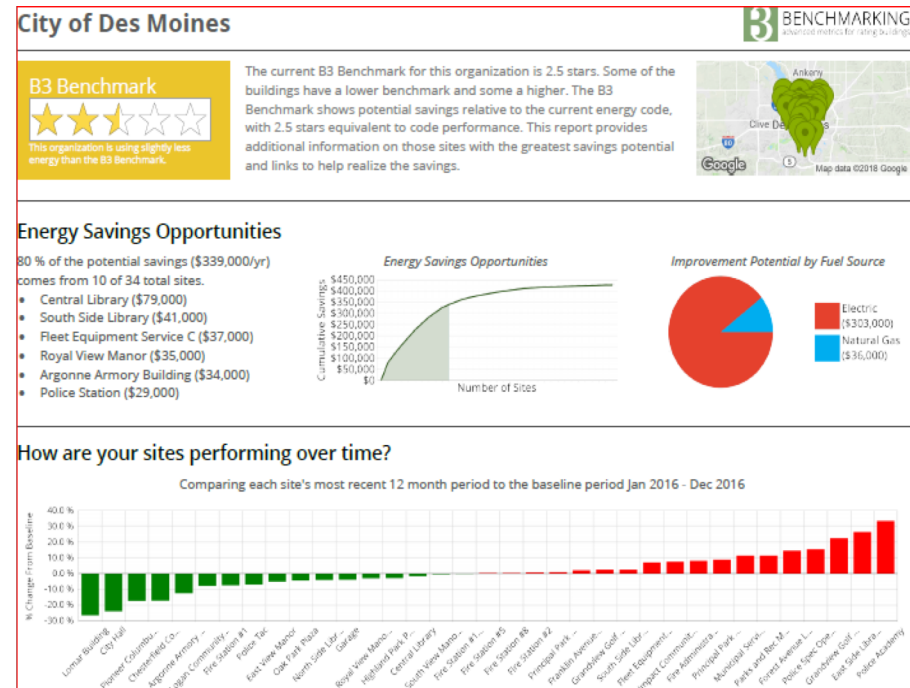


The [Iowa Public Buildings Benchmarking Program](#) serves as a tool for public buildings to track their energy usage. Currently there are over 2,200 buildings enrolled.

- » 133 Organizations Currently Enrolled
- 47 Cities
  - 44 School Districts
  - 16 Community Colleges
  - 12 Counties
  - 7 State Agencies
  - 3 Higher Education Institutions
  - 2 Private Institutions
  - 2 Other

# 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](mailto: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

Mitigation Category	Funding Percentage	Estimated Application Cycle Total	Estimated Trust Fund Total
<b>Class 4-8 Buses</b>	45%	\$3,150,000	\$9,450,000
<b>Freight and Port Drayage Trucks</b>	15%	\$1,050,000	\$3,150,000
<b>Non-Road Transport and Equipment</b>	10%	\$700,000	\$2,100,000
<b>ZEV</b>	15%	\$1,050,000	\$3,150,000
<b>DERA</b>	15%	N/A	\$3,150,000
<b>Total</b>	<b>100%</b>		<b>\$21,000,000</b>

# 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](mailto:stephanie.weisenbach@iowaeda.com)  
<https://www.iowaeconomicdevelopment.com/energy>