



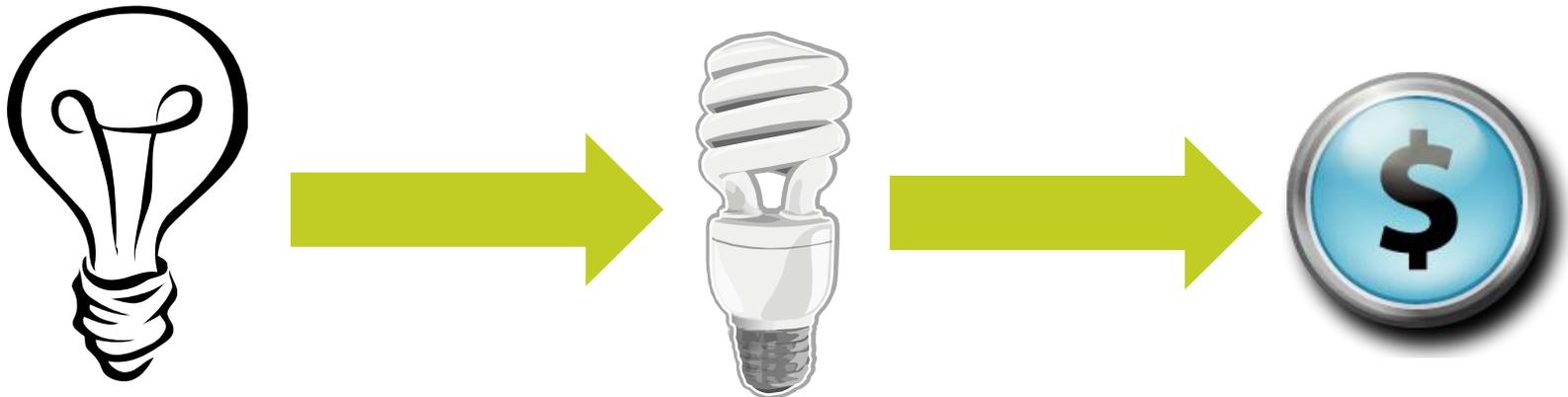
City Energy Management Program

A Regional Energy Manager Approach

**Iowa Energy Office
Iowa Economic Development Authority**

City Energy Management Program Overview

- Under a grant from the Department of Energy, IEDA has developed a pilot program to place a regional energy manager (REM) in several Iowa cities
- The focus is on increasing demand for energy efficiency in the public sector
- The REM will work with several communities as a shared resource



Goals

- Increase energy efficiency project implementation in city buildings
- Develop city energy action plans with the regional energy manager
- Provide a dedicated technical resource

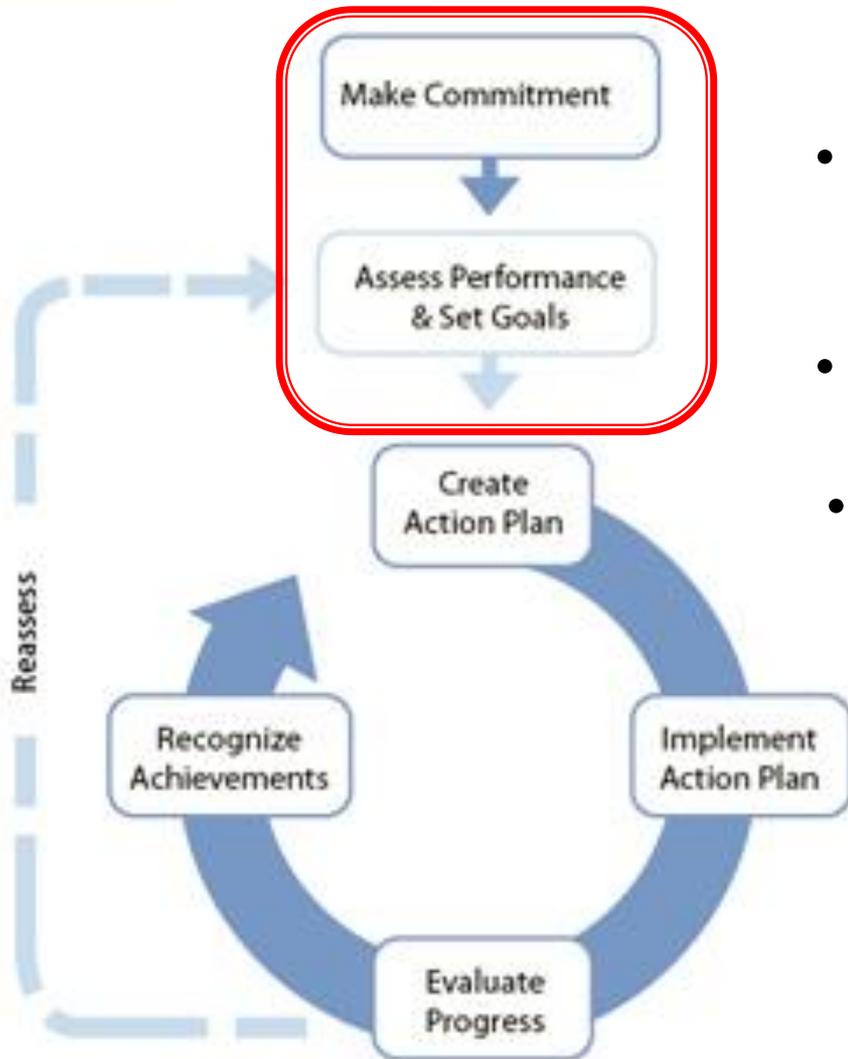


Why a Regional Energy Manager?

- Able to focus entirely on energy management
 - Investigate energy use in buildings, outdoor lighting, and water/wastewater facilities'
 - Provide a holistic approach to energy costs
- Knowledgeable of current energy efficiency policies and procedures
- Shared resource results in less cost burden to smaller municipalities



What will the REM do for cities?



- Work with each city to understand their energy concerns and needs
- Set energy savings goals
- Add buildings, lighting, and water facilities to the benchmarking program

What will the REM do for cities?



- Research/identifies cost effective energy efficiency projects
- Research available financing options for energy efficiency projects
- Develop an energy action plan (EAP)

Pilot Communities Commitments

City Energy Advisory Team

- Provide staff/citizens for an energy team

Iowa Benchmarking

- Assist with data collection

Energy Audit

- Provide previous audits

Building Walk-Through

- Staff time to assist

Energy Action Plan

- The CEAT will provide input&feedback

Energy Efficiency Projects

- Approve funding for a project

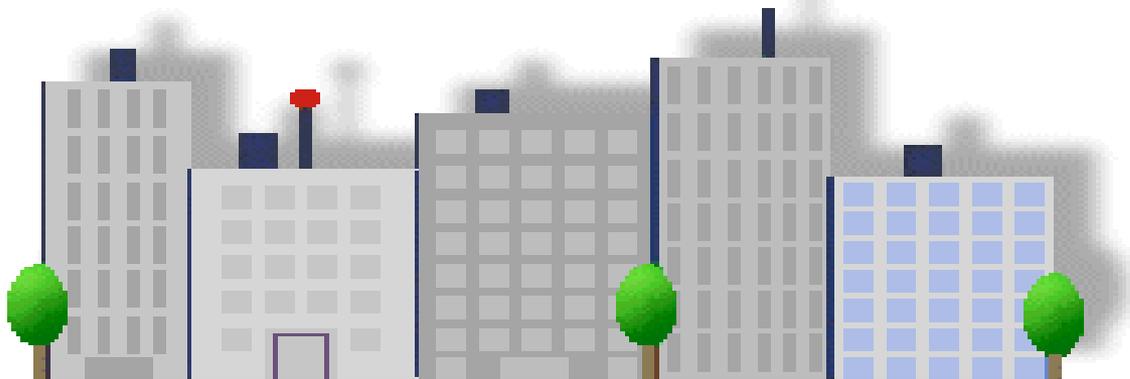
City Energy Advisory Team

- Form a City Energy Advisory Team (CEAT) in each city
- May include the city manager or administrator, city facilities manager, city clerk (accounting/financial), utility representatives among others
- Will work with regional energy managers to accomplish work activities by:
 - assisting in benchmarking buildings,
 - coordinating with utilities to conduct energy audits, and
 - developing energy action plans



Iowa Benchmarking

- Regional energy managers, working with the city energy advisory team, will identify buildings to that will be entered into benchmarking program
- Building and water/electrical meter information entered into benchmarking program
- Results presented to city energy advisory team for their review



Iowa Benchmarking

- Energy Benchmarking

For cars we use:

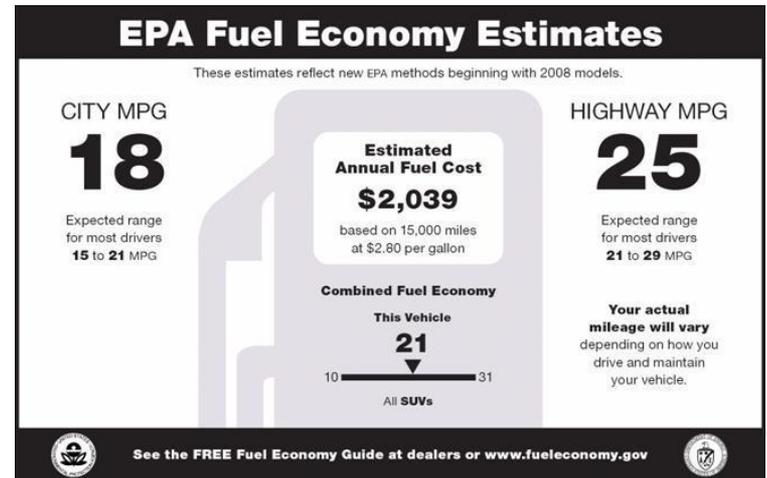
- Miles per gallon

For lighting efficiency we use:

- Lumens per Watt

For buildings we use: Energy Use Intensity (EUI)

- kBTU/SF/yr



Iowa Benchmarking

- Iowa participates in an Iowa Public Building Benchmarking project, over 1800 buildings have been benchmarked
<https://ia.b3benchmarking.com/Default.aspx>
- General Definition: process of tracking energy consumed, over time, of an existing building and comparing the results to similar buildings or an applicable standard.



Based on the latest 12 month period Aug 2012 - Jul 2013 to baseline period

Iowa Benchmarking- Public Site



Login > E-mail: Password:

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STATE OF IOWA B3 BENCHMARKING

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Sector: **Cities**

EUI

Benchmark

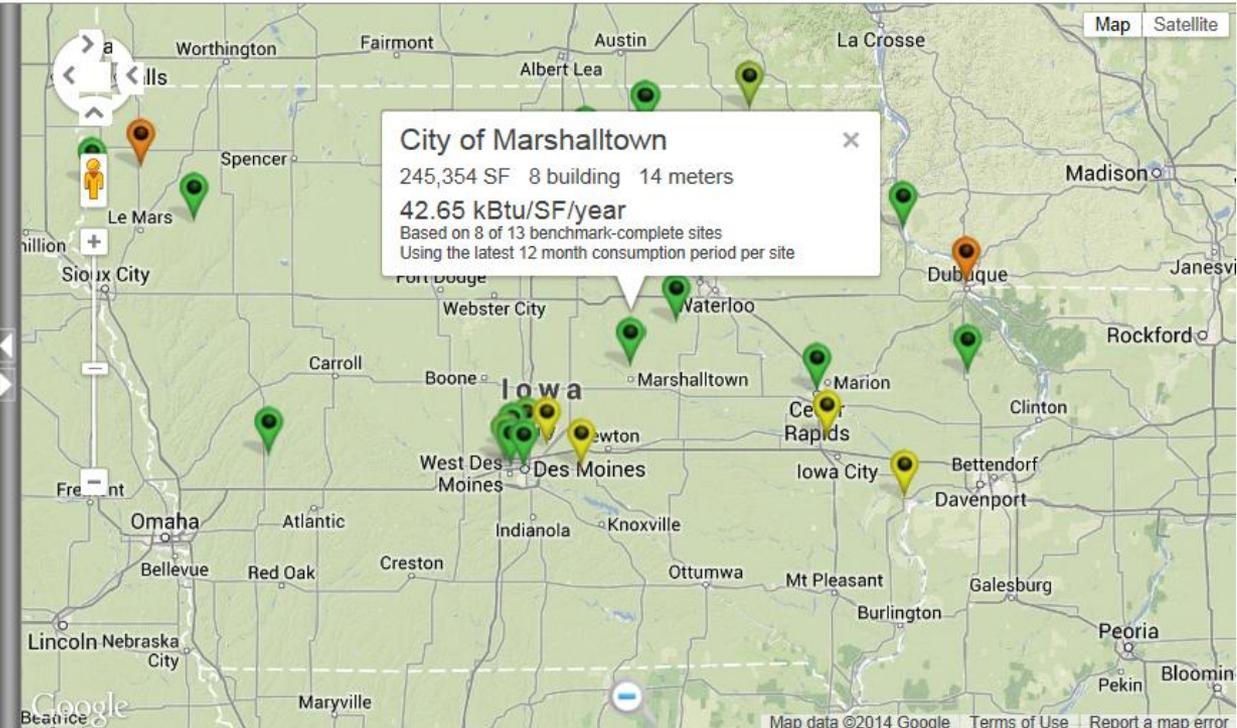
Energy \$/SF

Potential Savings

Freshness

[help](#)

#	Name	EUI (kBtu/SF/yr)	Complete Sites
1	Maquoketa	28.38	10
2	Marshalltown	42.65	245
3	Greene	44.25	24
4	Reinbeck	45.27	26
5	Cedar Falls	46.13	335
6	Cedar Rapids	46.20	964
7	Guttenberg	46.44	52
8	Mason City	50.87	20
9	Hawarden	64.00	58
10	Windsor Heights	67.23	26
11	Marcus	69.07	22
12	Johnston	71.23	74
13	Osage	72.51	67
14	Harlan	90.46	82
15	Des Moines	98.01	346
16	Ankeny	107.63	248



24 item(s) listed

■ < 100 kBtu/SF/yr
 ■ 100-130
 ■ 130-140
 ■ 140-150
 ■ > 150 kBtu/SF/yr
 ■ Data Not Available

Reporting on information dated 5/19/2014 2:14:46 AM CST

Energy Audit

- Meter analysis conducted to verify if operational and corresponds to correct account
- Utility bills for lighting, water, and wastewater reviewed and audited to ensure accuracy
- Buildings identified for energy audit
- All results submitted to CEAT for review

Billing Info	
Bill Date	22 MAY 2012
Billing Period	22 APR 2012 to 22 MAY 2012
Due Date	31 MAY 2012
Total kWh	69
Total Current Amount	445.80
Other Unpaid Bills	614.75
TOTAL Amount Due	1,060.55
SUBTOTAL	
Billing Summary	
BILL SUBGROUP	
Generation	
Transmission	
Loss	

Building Walk-Through

- Meet with facilities and maintenance staff to review process and procedures
- Identify opportunities for efficiencies
- Will be compiled with audits and benchmarking information
- No cost improvements will be implemented



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Energy Action Plan

- REMs to draft Energy Action Plans
- REM will compile information from benchmarking, energy audits, utility assessments, building walk-throughs and recommendations from CEAT to draft an Energy Action Plans
- Draft Energy Action Plans will be presented to CEATs for review and input



Energy Efficiency Projects

- Based on benchmarking data, energy audit results, and draft energy action plan, the CEAT will identify a energy efficiency project to be implemented
- Project will be brought before City Council for review and approval
- Approved project will be submitted for bid process



Timeline

City Selection

June 2014



Orientation Meeting with Cities

July 2014



Develop City Energy Advisory Team

August 2014

Timeline

Determine energy needs and goals

August-October 2014



Meet with utilities to discuss goals and possible assistance

August-October 2014



Data entered into Benchmarking Program

August-October 2014

Timeline

Conduct Energy Audit

October-December 2014



Conduct building walk-through

October-December 2014



Draft Energy Action Plan

January 2015

Timeline

IEDA will identify financing options

July 2014-December 2014



Energy Efficiency Project Implementation

January-December 2015



Finalize Energy Action Plan

December 2015

How to apply

Go to www.iowagrants.gov, Grant Opportunities, #78642

Welcome to IowaGrants.gov

Iowa's Funding Opportunity Search and Grant Management System

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STATE AGENCIES

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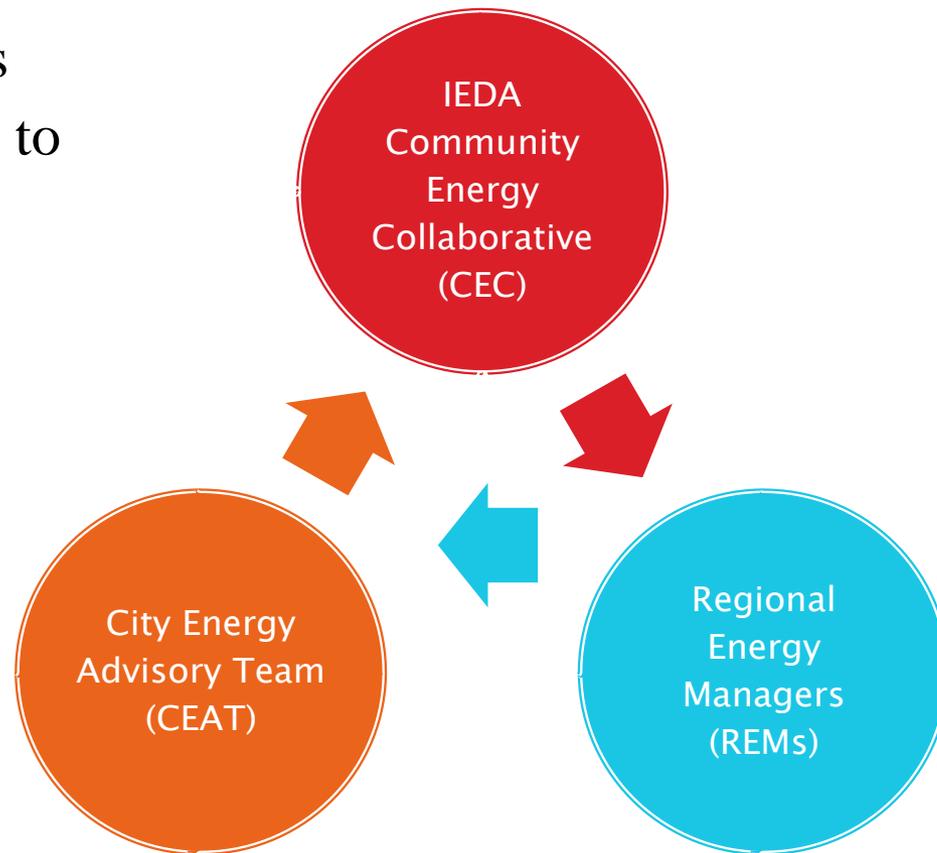
You do not need to register for Search

Current Opportunities

ID	Title
80019	Anatomical Gift Public Awareness & Donor Referral Protocol Grants (Category II) Fiscal Year 2015 RFB
81051	Building Strategic Prevention Framework Capacity Through Training and Technical Assistance Services FY15 RFA
48877	CDBG Economic Development Set-Aside
60700	CDBG Sustainable Community Demonstration
78642	City Energy Management Program
79707	Community Based Programs of Maternal Health, Child Health (including hawk-i Outreach and Oral Health) and Family Planning
81407	Comprehensive Substance Abuse Prevention FY15 RFA
79114	Emergency Medical Services (EMS) System Development Grant FY2015 Application Guidance

IEDA Community Energy Collaborative

- **Led by the Iowa Economic Development Authority Energy Office**
 - Manage the REMs
 - Provide assistance to pilot communities



IEDA Community Energy Collaborative

Energy Office

- Paritosh Kasotia, Team Leader
- Carrie Weber
- Adrienne Ricehill

Main Street Iowa

- Tim Reinders

Community Development

- Tim Waddell
- Leslie Leager
- Jeff Geerts

Paritosh Kasotia, paritosh.kasotia@iowa.gov, 515-725-0434

Carrie Weber, carrie.weber@iowa.gov, 515-725-2033

Adrienne Ricehill, adrienne.ricehill@iowa.gov, 515-725-0746

Tim Reinders, tim.reinders@iowa.gov, 515-725-3077

Tim Waddell, tim.waddell@iowa.gov, 515-725-3002

Leslie Leager, leslie.leager@iowa.gov, 515-725-3071

Jeff Geerts, jeff.geerts@iowa.gov, 515-725-3069

Questions/Comments

- More information will be available soon on IEDA's website at:

<http://iowaeconomicdevelopment.com/Programs/Energy>