# RESOURCE STEWARDSHIP COORDINATION FOR CLEAN AIR

September 15, 2015

### Resource Stewardship Duties

The coordinator of resource stewardship shall:

- Work with agencies to implement best practices and stewardship measures to improve air quality; and
- Make an annual report on best practices and stewardship efforts to improve air quality to the Business and Labor Interim Committee and Natural Resources, Agriculture, and Environment Interim Committee.

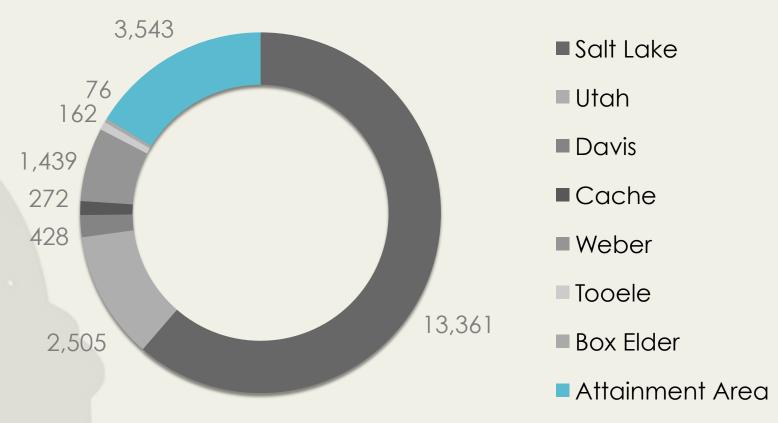
Each agency will retain absolute discretion whether or not to incorporate any of the practices or measures suggested by the coordinator

### Air Quality Issues In Utah

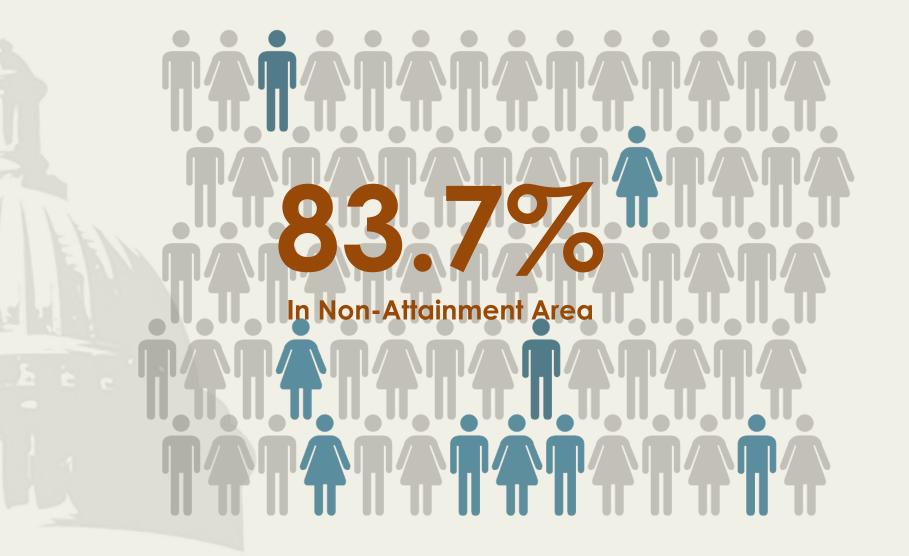
- Episodic Pollution Issue
- Many Days of Year Air Pollution Level Do Not Exceed Standards
- Topography and Air Pressure
- Prolonged & Weather Dependent
- Temperature Impacts Severity
- Regional

### Where We Work

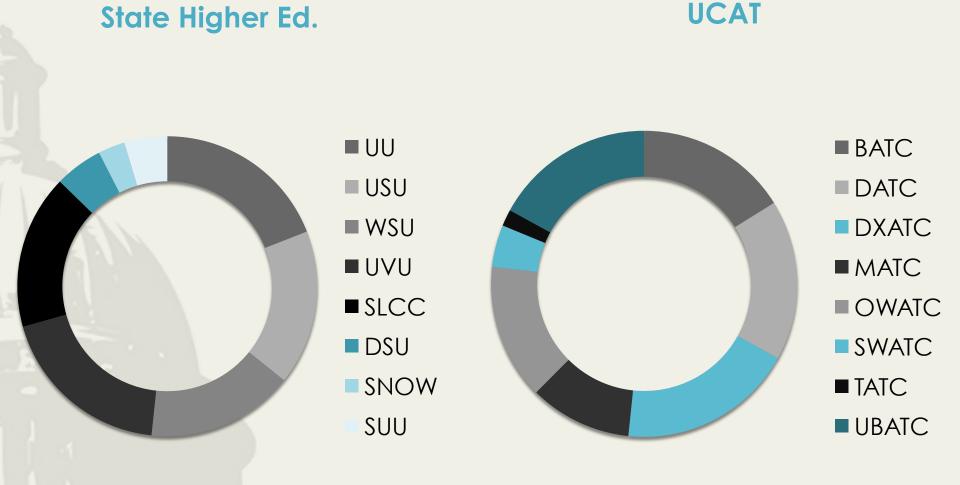




### Where We Work



### Where We Educate – Higher Ed.

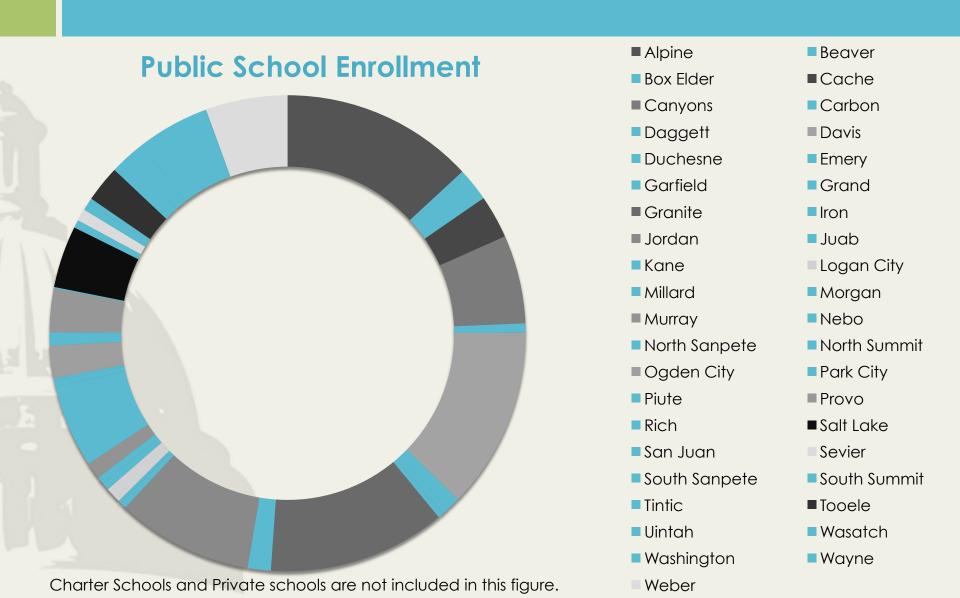


Private schools are not included in this figure.

### Where We Educate – Higher Ed.



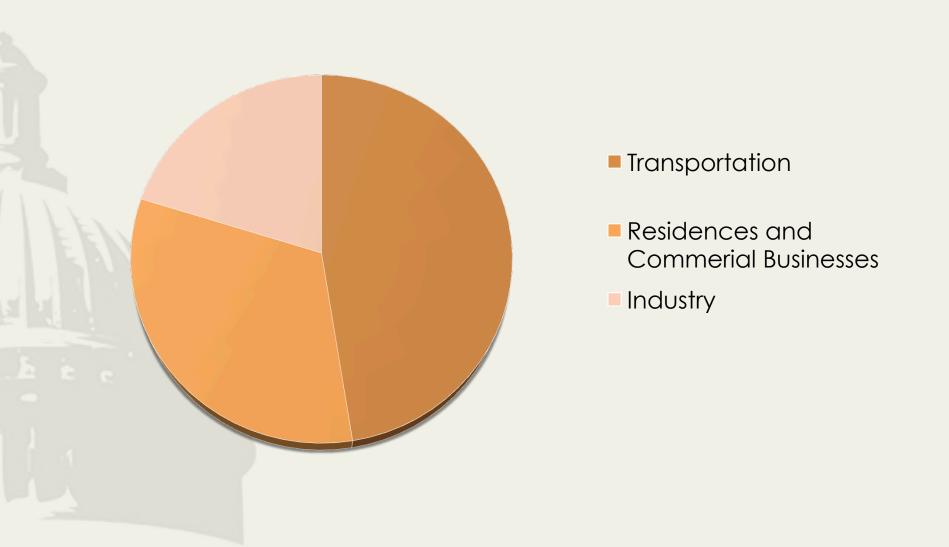
### Where We Educate – K-12



### Where We Educate – K-12



### **Emissions Sources**



### Mission, Vision, Values

#### Mission

 Support Agencies and increase the implementation of of best practices and stewardship measures to improve air quality.

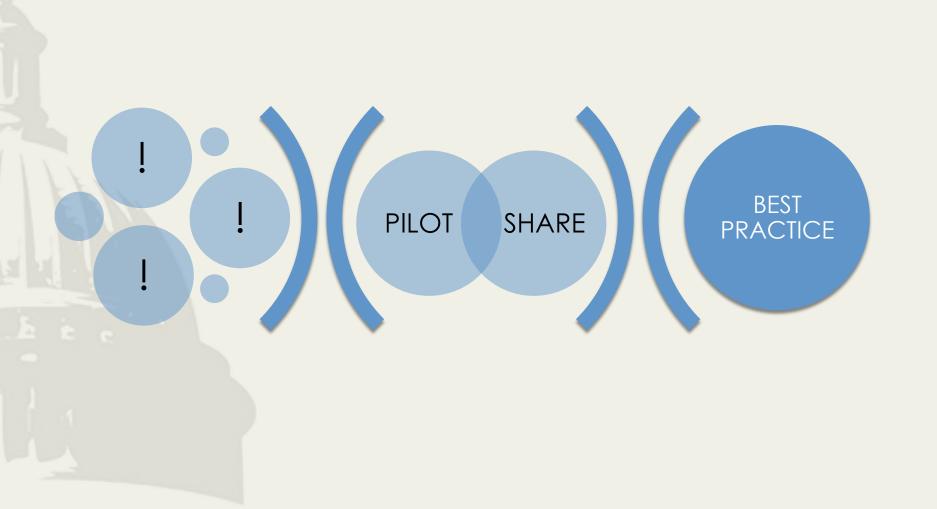
#### Vision

 A State of Utah government workforce that contributes to a healthier Utah.

#### Values

- Health
- Stewardship
- Knowledge
- Transparency
- Communication
- Efficacy

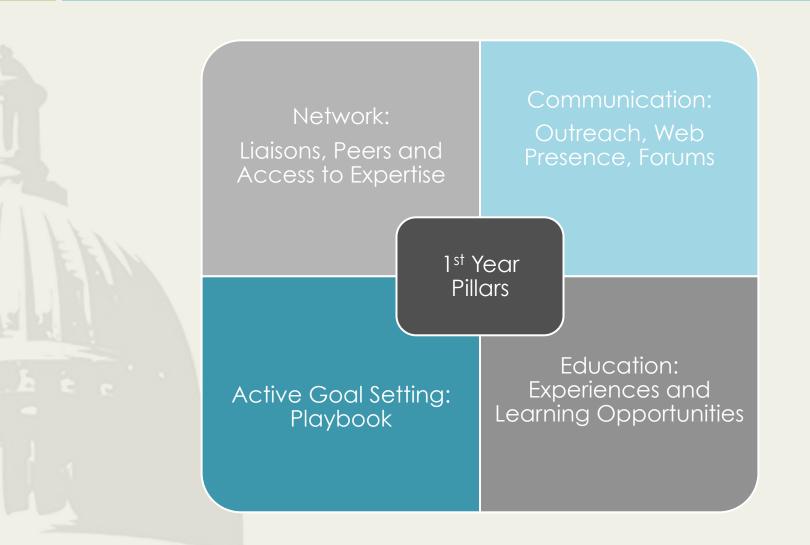
### Stewardship Coordination



### Stewardship Coordination Goals

- 1 ) Increase knowledge about air quality
- 2 Provide better access to best practices
- 3 Develop peers and networks
- 4 Support education and learning opportunities
- 5 Improve communication about stewardship measures
- 6 Support Department's and Governor's Goals

### Structure to Achieve Goals



### Network

Stewardship **Liaisons** 

Eco Pass Coordinators Energy Managers Air Quality **Experts** 

Communication
Support &
Planning

Program Implementation Stewardship Management & Responsibility

Strategy Building & Metrics

### Playbook to Set Goals

**Leadership**Guidance

Stewardship Plan Recommended **Opportunities** 

Measured Results

18,243

employee

MISSION Specific

All Agencies

Outreach/ Emissions

### Communication



#### **Governor Herbert Issues Executive Order for Water Conservation**

Who hasn't heard that Utah is the second driest state in the nation? We know we live in a desert, and we know that we are fortunate to have mountains, and (typically) a snow pack, and connections to regional rivers and reservoirs that help our state grow in an arid climate.

Nationally water resources and dry pipes have been the center of attention. Locally, skiers and snowboarders lamented last winter's lack in the number of powder days. Recognizing that water as a critical resource to our economy, environment and quality of life, Governor Herbert signed an <a href="Executive Order">Executive Order</a> encouraging the wise use of water across Utah, and requiring



#### Continued on Page 3

#### Inside:

Better in 2014 or 2015? Clear the Air Challenge

GREENbike is Now on State Contract

Funding Boosts for Clean Air Efforts

Higher Education Shares What Works

#### **BLUE BIKES, DATE NIGHTS**

Utah State University (USU) Aggies vetting the success of a first may have some new criteria -if he/she can peddle tandem. Alexi Hamm, USU Sustainability Coordinator, says, "A mild Utah winter has meant dips in Aggie Shuttle ridership, but it's all good for encouraging year-round bicycling. USU's Aggie Blue Bikes aims to get more people on more bikes, more often and has almost 300 donated, refurbished bicycles available to the USU community on a three month or 24-hour basis, free of charge to the user. Other services include bike tool boards, one-on-one tutorials, and departmental bikes. Aggie Blue Bikes is funded through a \$2.75 charge in student fees.

In 2005, a group of students, faculty, and staff advocated for policies to allow bicycles more access to campus and address air quality concerns, and Aggie Blue Bikes continues to work in both areas. The university became a Bike Friendly University at the Silver level in 2013 through the League of American Bicyclists. Three sessions this winter taught students about winter cycling skills and provided equipment for their three-month rentals. The 24-hour checkouts of mountain bikes, road bikes, beach cruisers, and unicycles are also well-used, with tandem bike rentals being especially popular for dates."



#### Events to Watch For...

Omit Information & Questions for

Clean ReSolutions to

Resource Stewardship Coordinator

801-889-8123

ChamLarsen@utah.gov

More Stories and Info <u>@UtahSteward</u>

#### LOCAL

Utah Bike Summit: April 10
Gas Can Exchange: April 11
Adobe Connect eLearning Seminar for Gov. April 21
Utah Economic Summit: April 17
Earth Day April 22
Governor's Energy Development Summit: May 20-21
Check out the Utah Office of Energy Development event page here
Check out the Department of Environmental Quality news page here

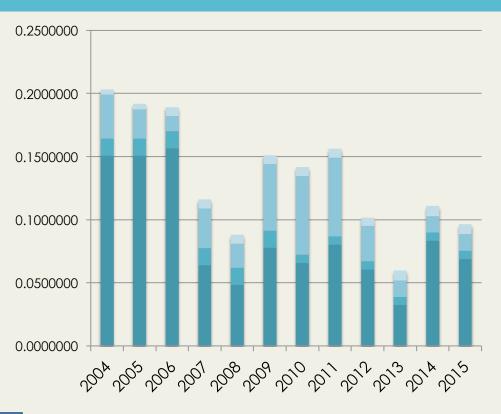
#### **NATIONAL**

Better Buildings Summit, Washington D.C. May 27-29

### Education

First-and-Air Quality Last Mile Basics Strategies Funding & Teleworking Grants











- Express Bus
- Front Runner
- Regular Bus
- Streetcar



Honda Civic

■ Toyota Prius

(Hybrid)

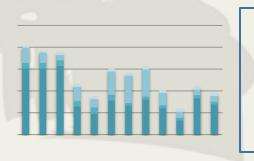
(Gas)

Ford Focus (Gas)

Dodge Charger

(CNG)







#### **Eco Pass Transit Trips**

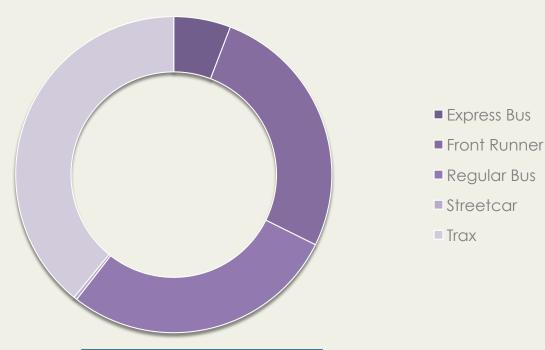


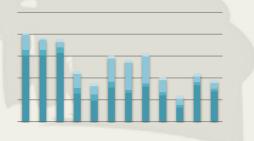
- Express Bus
- Front Runner
- Regular Bus
- Streetcar



#### State Agency Eco Pass Transit Trips

55,000+
Trip/Mo
Average











77 Tons

of Emissions Saved during the Winter Challenge







#### **Eco Pass Transit Trips**



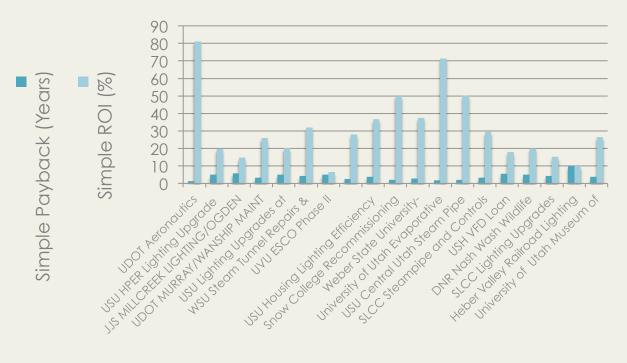
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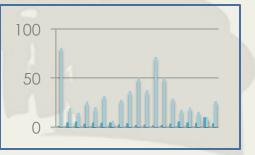


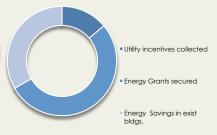
#### **Efficiency Revolving Loan Projects**

31.2%

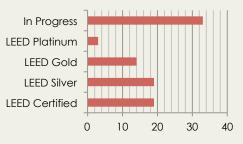
Average ROI





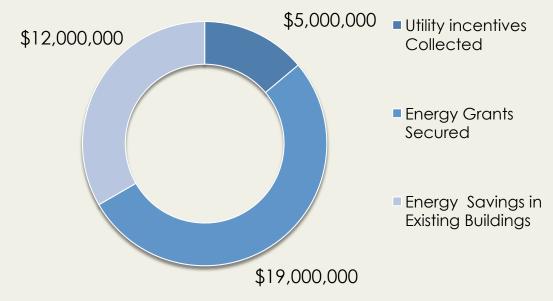


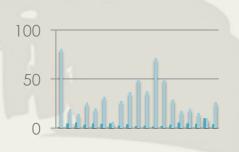


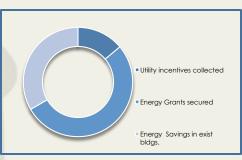


**\$36M**Avoided Costs
2006-2015

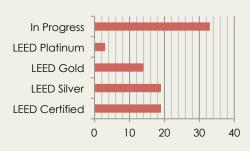
#### **Energy Savings and Incentives**







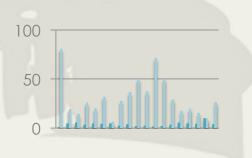


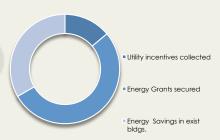


\$10M

Metering Investment







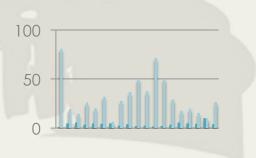


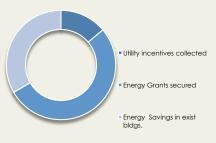
### \$100M

Utility Costs
Avoided Over
Life of
Facilities

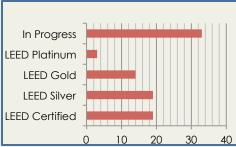
#### **High Performance Facilities**











Bike Commute Infrastructure









**Solution** 











Low-Maintenance Partnership





### Culture & Fun









1200 Retrofitted

27 Replaced

343

Tons of Particulate Matter Saved









**5.17** MW Capacity

7.9 Million Kwh/YR

24,000 LBS. of Emissions/YR

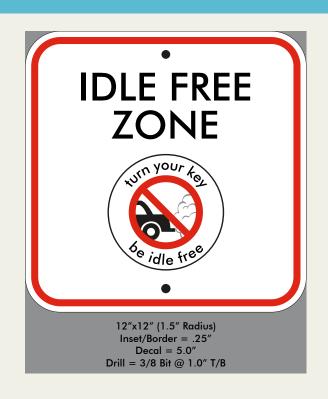
2016 Proposed Projects: 5.2 MW







# Targeted Education







## Incentives & Rewards







### Year 1 Strategies and Opportunities

- 1 Stewardship Plan
- 2 ) Multi-Modal & Accessibility
- 3 Idle-Free Education and Communication
- 4 ) Eco Pass Awareness
- 5 Teleworking & Teleconferencing
- 6 Stewardship Education
- 7 Agency Energy Efficiency

### Contact

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