

On Our Way to Cleaner Air: Utah State Government Air Quality Best Practices



Coordinator of
Resource Stewardship
Annual Report &
Summary of Best Practices to Improve Air Quality
September 18, 2019
FY 2019



Pilot Programs

State Office Building Teleworking

- Six month voluntary telework program that ran from October 2018 through March 2019.
- Four agencies housed within the State Office Building participated.
- Goals of the program included:
 - Improve Air Quality
 - Improve Building Utilization and Efficiency
 - Increase Jobs in Rural Utah
 - Increase Employee Productivity
 - Increase Employee Retention
- After the pilot was deemed successful, the State of Utah began statewide implementation of a telework program and created a Senior Consultant position in the Governor's Office of Management and Budget to manage the roll-out.



RESULTS OF THE PILOT

136 Participants

10% from DHRM
20% from Insurance
35% from DTS
35% from DAS



**Over 273 lbs
of emissions
saved**



**1 new job
created in
rural Utah**



**Over 20%
increase in
employee
productivity**



**3 employees
retained**

Geotab Year One Summary Report

- The Division of Fleet Operations (DFO) coordinated a large telematics pilot to evaluate whether the State of Utah's fleet telematics program might benefit the State in reducing overall operating costs.
- Goals of the project included:
 - Reduce Fuel Costs
 - Reduce Maintenance Costs
 - Reduce Accident Costs
 - Reduce Unnecessary Fleet Vehicles
 - Increase Productivity
- Deployment of telematics was done within four pilot agencies:
 - Department of Administrative Services (DAS)
 - Department of Alcoholic Beverage Control (DABC)
 - Department of Human Services (DHS)
 - Department of Corrections (DOC)
- Emission reductions were made possible through a decrease in idling.
- By reducing idling, which produces zero MPG, fuel efficiency was also increased, decreasing overall fuel cost.
- Idling alerts were used to proactively notify drivers in real-time when idling longer than a predetermined period of time set by the agency.
- 37.5 tons of carbon emissions were reduced during the first year of the pilot.
- Due to success of the first year of the pilot study, the pilot has been extended an additional year and will be completed Fall of 2019.



Legislative Allocation Programs

State Teleworking

- The program was allocated \$6,193,000 in one-time funding.
- Funding is used to assist state agencies in implementing teleworking.
- An estimated 21.3 tons of emissions will be saved annually and an estimated 319 tons of emissions will be saved over the lifetime of the project.



Pre-2007 State Vehicle Replacement

- DFO is currently in the process of replacing 238 pre-2007 overly-polluting state vehicles with newer and cleaner models.



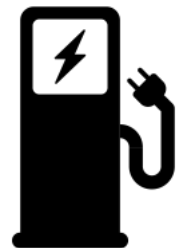
Snow Plow Replacement

- The program was allocated \$4 million in one-time funding.
- The funds will purchase 20 cleaner snowplows for UDOT's fleet to be deployed in non-attainment areas.
- The snowplows have been procured and are currently being built.
- An estimated 27 tons of emissions will be saved annually and an estimated 535 tons of emissions will be saved over the lifetime of the project.



Electric Vehicle (EV) Charging at State Agency Sites

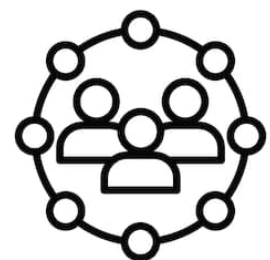
- The program was allocated \$2 million in one-time funding.
- Funds purchase Level 2 dual port chargers at state-owned facilities.
- A total of 122 Level 2, dual port, chargers have been purchased. Installation of the chargers is currently underway.
- An estimated 11 tons of emissions will be saved annually and an estimated 106 tons of emissions will be saved over the lifetime of the project.



Partnership

Live Electric II

- The Governor's Office of Energy Development (OED) and DAS were able to join Utah Clean Energy in their partnership with Rocky Mountain Power and Nissan North America to facilitate a \$3,000 manufacturer-level discount on the 2018 Nissan LEAF.
- With support from UCAIR, Utah Clean Energy was able to extend and exclusively promote this discount to State of Utah employees.
- The duration of the program was from May 2018 through January 2019 and resulted in 73 Nissan LEAFs being purchased through the project.
- Compared to gas-powered cars, the LEAFs purchased through the program reduce green house gas emissions by 30.4 tons each year.
- An electric bike (e-bike) discount was also provided, resulting in 43 e-bikes being purchased through the program.
- The e-bikes now in use through this program save an estimated 5,504 ten-mile car commutes annually.



Transportation

State of Utah EV Master Plan

- With the collaboration of representatives from the agencies of DAS, Utah Office of Tourism, UDOT, OED, and the Department of Environmental Quality, the Coordinator of Resource Stewardship created a five-year master plan for the State.
- The plan can serve as a guide to direct State agencies and other interested parties in their implementation of EV technologies at their place of business and operation.
- In 2017, the State of Utah signed a Memorandum of Understanding (MOU) for the Regional Electrical Vehicle Plan for the West (REV West). In support of this MOU, the State of Utah Master Plan includes EV charging implementation strategies for Interstates 15, 70, 80, and 84.
- The State of Utah Master Plan helped agencies apply for electric vehicle supply equipment funding through the Volkswagen Settlement process.



National Guard EV Charging

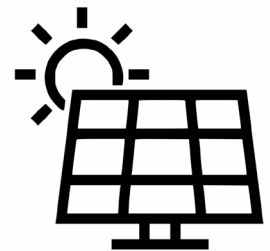
- Utah National Guard completed installation of five dual port Level 2 chargers at their Draper headquarters.
- Two dual port Level 2 stations are to be installed at Camp Williams in the coming months which will also be attached to a solar array.



Solar Development

MASOB Rooftop Solar Project

- Utah Division of Facilities Construction and Management (DFCM) received a \$250,056 grant from Rocky Mountain Power.
- The installation is located at the Multi Agency State Office Building (MASOB).
- DFCM, DEQ, DHS are all owners of the project.
- The array is expected to produce 336,200 kwh annually.



Driving Toward Better Air Quality Year-around

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