

UTAH DEPARTMENT of
ENVIRONMENTAL QUALITY

**AIR
QUALITY**

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EMISSIONS REDUCTIONS**

Air Quality Update

Non-attainment

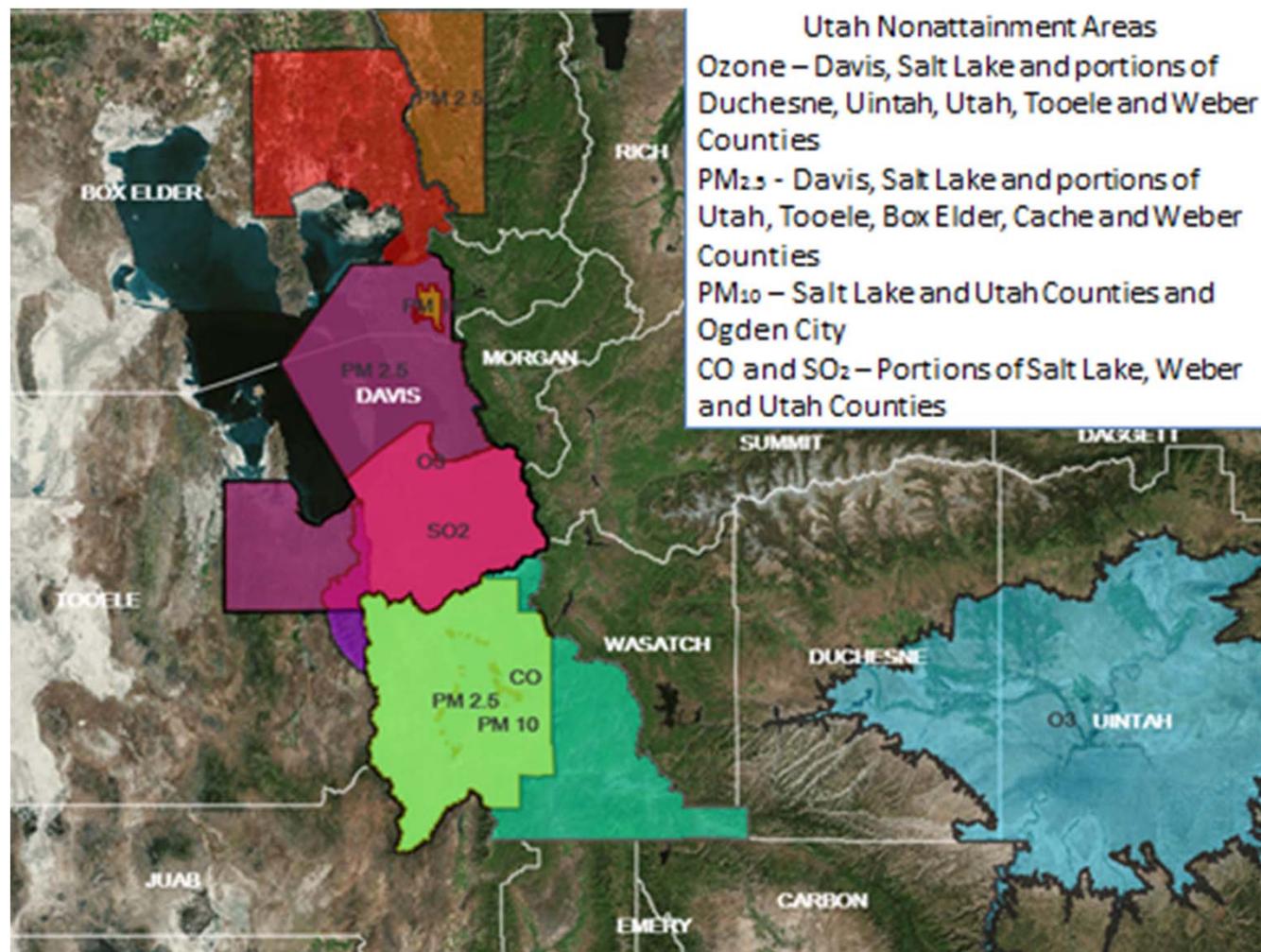
Focused on meeting federal air quality standards through planning, permitting and compliance

Serious State

Implementation Plan for Salt Lake Non-attainment area

Clean Data

Determinations for Logan and Provo Non-attainment areas



Air Quality Research Projects

- Wasatch Front Ammonia and Chloride Observations (WaFACO)
- Jordan Narrows Gap Ammonia Transport Study
- Ammonia Emission Assessment from Diesel and Gasoline Engines under Utah-Specific Conditions
- Aethalometer Study for Estimating Compliance with Wood-burning calls
- TRAX Air-Quality Observation Project
- Daily Wintertime PM_{2.5} Speciation at Hawthorne and Smithfield
- Bountiful City Dichloromethane and Formaldehyde Source Apportionment Study
- Composition of Volatile Organic Compound Emissions from Oil and Gas Wells in the Uinta Basin
- Air Quality Research Roadmap (AiR2)

Future collaboration during the FY 2020 funding cycle and beyond



<https://deq.utah.gov/air-quality/current-research>

SUCCESS Framework Target: Air Quality

Division of Air Quality Goal

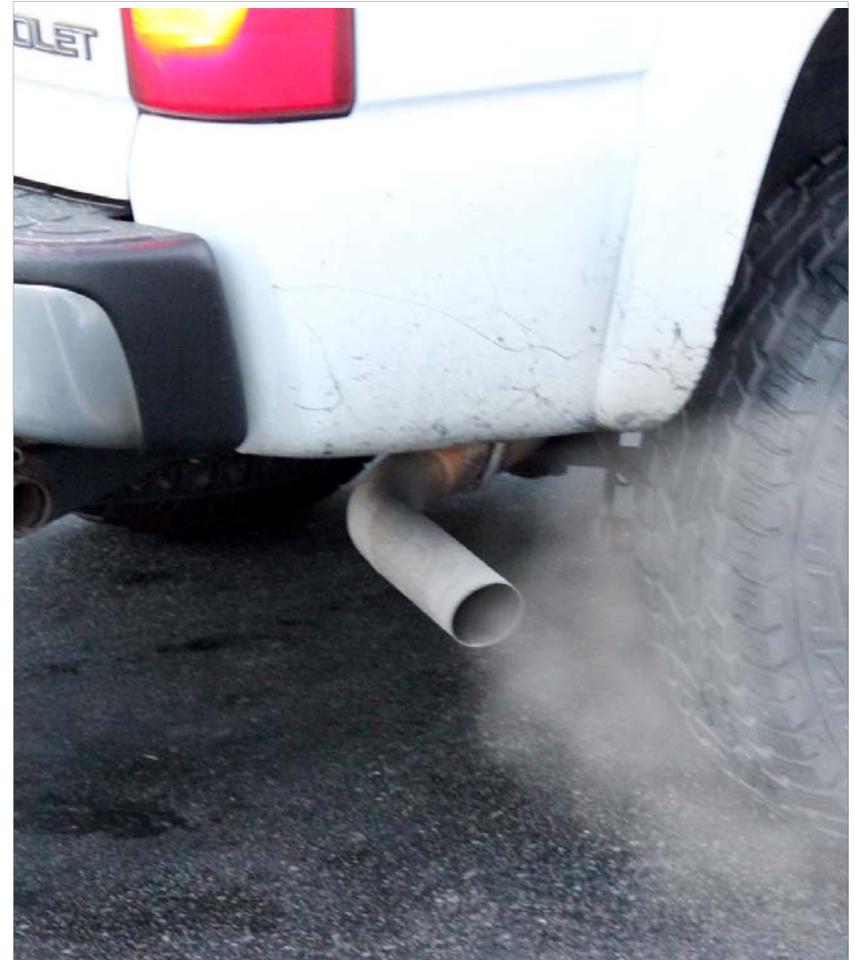
Reduce annual statewide emissions by 100,000 tons by 2026, a **25 percent** per capita reduction.

Governor's Proposed Budget

Allocate \$100 million to fund high-return air-quality improvement projects.

Air-Quality Improvement Projects

Select strategies that generate the greatest pollution reduction at the lowest cost.



<https://deq.utah.gov/air-quality/division-of-air-quality-2018-state-of-the-environment-report>

Per Capita Emissions 2002-2017



An Investment in Utah's Air Quality

- Data-driven air quality solutions
- Responsive to Utah's growing population
- Two-prong approach
 - State leadership
 - Public engagement
- Funding for projects with the highest potential to improve air quality



Air-Quality Improvement Initiatives: State

Proposed Projects

- Teleworking initiative for state employees, including telecommuting plans during “air action days”
- Electric vehicle (EV) charging infrastructure at state buildings for use by employees and members of the public
- Replacement of standard and heavy-duty diesel state fleet vehicles with cleaner alternatives
- State building upgrades to improve energy efficiency



Air-Quality Improvement Initiatives: Public

Proposed Projects

- Replacement of two-stroke engines with cleaner electric models through lawnmower and snow blower exchanges
- Replacement of dirty diesel engines with cleaner alternatives.
 - Business and industry fleet vehicles
 - School buses
 - Semi-trucks
 - Commercial and municipal buses
 - Switch locomotives
- Vehicle Replacement Assistance
 - Replace failing tier 0-1 vehicles

Class Five: 16,001 to 19,500 lbs.



Class Six: 19,501 to 26,000 lbs.



Class Seven: 26,001 to 33,000 lbs.



Class Eight: 33,001 lbs. & over



Air-Quality Improvement Initiatives: Public

Proposed Projects

- Replacement of wood-burning stoves and fireplaces with cleaner-burning natural gas
- Enhance air quality education and messaging campaigns
- Increase weatherization assistance
- Promote transit utilization on poor air quality days
- Replacement of two-stroke engines with cleaner electric models through lawnmower and snow blower exchanges



Questions?



<https://youtu.be/Pp8RAEqB8JE> DEQ – Who We Are

