



The Road to Clean Air



Benefits of a Nationwide Transition
to Electric Vehicles

Nevada Electrification Bootcamp

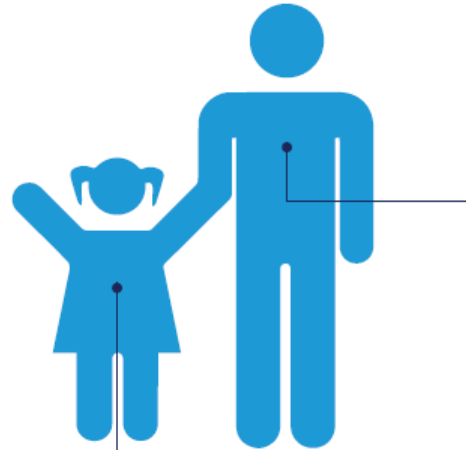
December 9, 2020

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Air pollution remains a major danger to the health of children and adults.



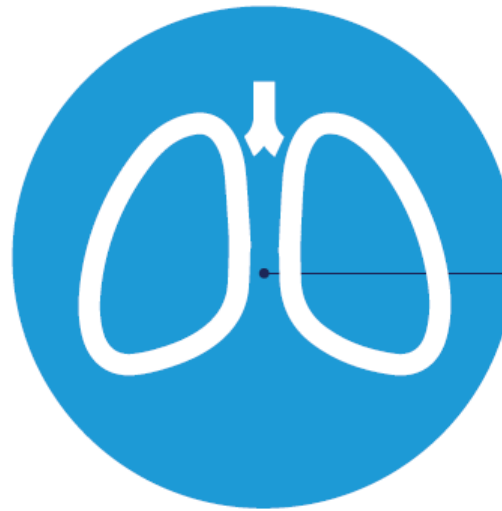
Health risks from:
Ozone Pollution
Particle Pollution



PREMATURE DEATH

May cause developmental harm

May cause reproductive harm



Health risks from:
Ozone Pollution
Particle Pollution



Asthma attack

Lung cancer

Wheezing and coughing

Shortness of breath

Cardiovascular harm

Susceptibility to infections

Lung tissue redness, swelling

Populations at Risk due to Unhealthy Air

Nevada Populations At Risk

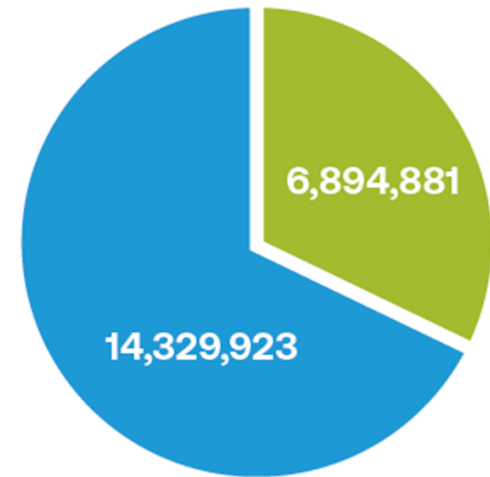
Total Pop	3,034,392
Under 18	688,997
65 and Over	476,181
Pediatric Asthma	47,960
Adult Asthma	186,824
COPD	168,506
Lung Cancer	1,536
Heart Disease	213,331
Ever Smoked	971,161
Poverty	391,347
People of Color	1,558,015



State of the Air 2020

Americans Living in Counties with 3 Failing Grades:
Ozone Days, Particle Days,
Annual Particle Levels

- White
- People of Color



Top Ten Most polluted cities in the U.S.



US Rank	Unhealthy Ozone Days
1	Los Angeles-Long Beach, CA
2	Visalia, CA
3	Bakersfield, CA
4	Fresno-Madera-Hanford, CA
5	Sacramento-Roseville, CA
6	San Diego-Ch. Vista-Carlsbad, CA
7	Phoenix-Mesa, AZ
8	San Jose-San Francisco-Oak., CA
9	Las Vegas-Henderson, NV
10	Denver-Aurora, CO

Compared with last year, many locations saw increases in ozone and/or particle pollution:

All Nevada counties w/data saw increases in unhealthy ozone days

All Nevada counties w/data saw more unhealthy particle days

Mixed results on annual particle levels; all counties receive a passing grade

Too many Nevadans experience unhealthy air days during the year

2.9 million residents live in counties with failing grades for ozone and/or particle days

Ozone and Particle Pollution impacts are seen in almost all counties in the State

No "A" grades in the state

Climate change is making it harder to protect human health.

(2016-2018) 3 of 5 hottest years ever recorded impacting ozone formation

(2016-2018) Historic Western wildfires driving particle emissions increases

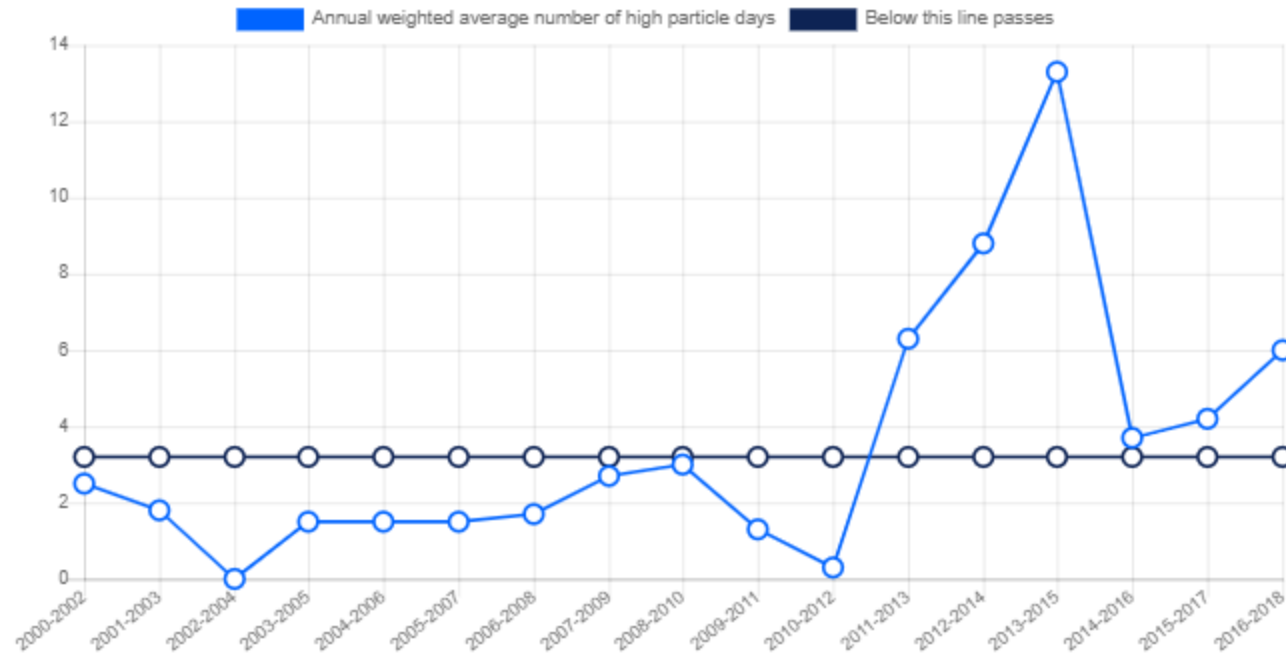


Reno-Carson City-Fernley, NV

(Carson City, Douglas, Lyon, Storey, Washoe Counties)

Success.

Few unhealthy particle days overall over the history of *State of the Air*



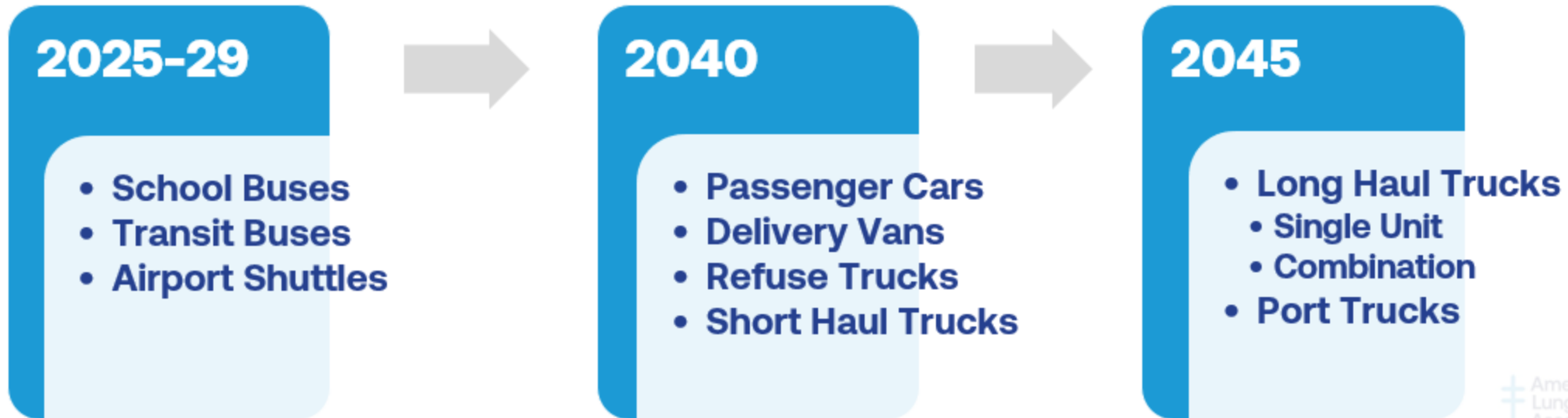
Challenge.

Extreme heat and wildfires impacting progress
State of the Air
2020



100 percent Zero Emission Vehicle Sales by Category

National scenario focused on deployment of zero-emission technologies across the transportation sector, with sales in ten classes of vehicles ramping up to 100 percent.



Health Benefits of Avoided Emissions in 2050



6,300

Premature Deaths
Avoided

93,300

Asthma
Attacks
Avoided

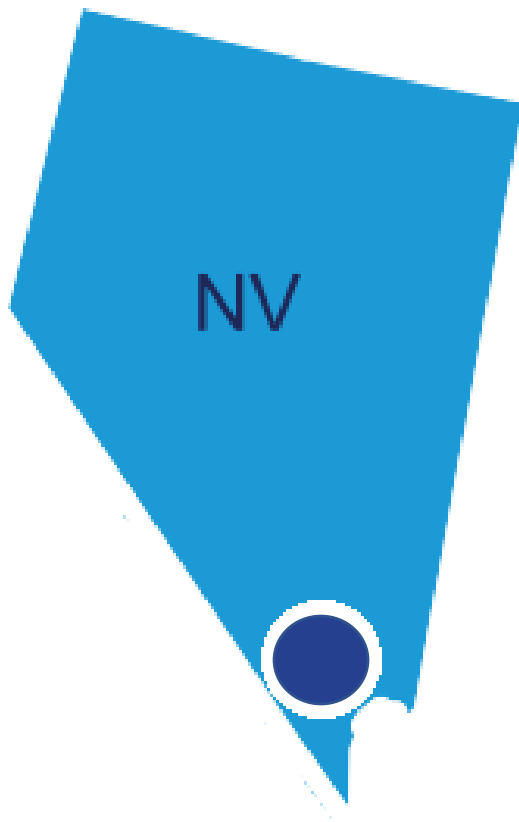
416,000

Lost
Work Days
Avoided

State-Level Results due to emission reductions in 2050

Annual Nevada
Health Benefits

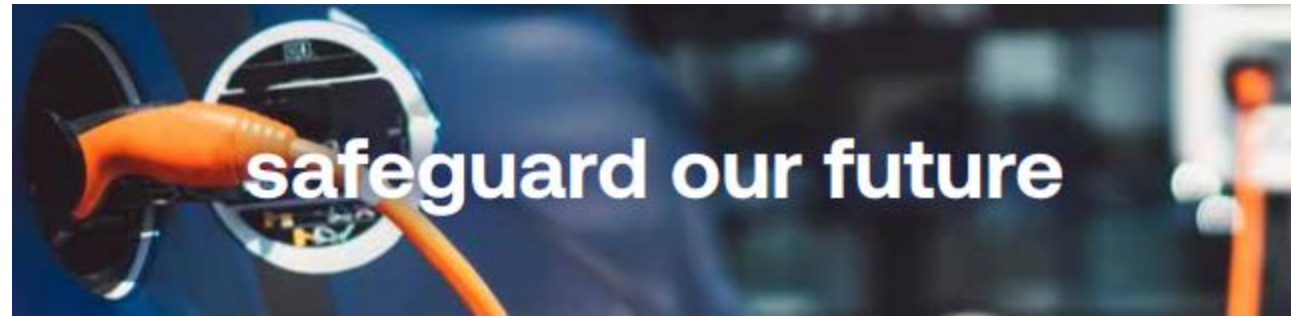
\$745 Million



Annual Las Vegas
Health Benefits

\$615 Million

State Policy Recommendations



Use Clean Air Act authority to adopt the California zero-emission standards for light, medium- & heavy-duty vehicles.

Invest in publicly available charging infrastructure along major highways and roads to ensure both personal and commercial charging opportunities exist.

Pursue fully electric public fleets and support zero-emission infrastructure including in all public buildings and garages.

Support accelerated fleet turnover through incentive programs targeting older vehicles, consumer purchase decisions via point-of-purchase rebates and non-financial incentives.

Resources



- www.lung.org/sota
- State-specific information
- Rankings and grades
- Health effects information



- www.lung.org/ev
- Regional Fact Sheets
- Full Report
- Technical Report

Contacts

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