CLIMATE LEADERS LIVE!

Please wait, we will begin shortly...
OUR CLIMATE AND OUR HEALTH

A THREAT AND AN OPPORTUNITY

accelerating the transition
to our clean energy future
“Climate change is the greatest threat to global health in the 21st century.”

World Health Organization
Today's speakers

Nick Manning
Climate & Health Program Organizer

Will Barrett
Director of Advocacy, Clean Air

Angela Song
Air Resource Specialist

Jamie Pang
Environmental Health Program Director

Dr. Chris Covert-Bowlds
Physician and WPSR Member
Get Involved!

Dr. Chris Covert-Bowlds - Christopher.J.Covert-Bowlds@kp.org

Nick Manning - nick@wpsr.org
What are some ways you can help us right now?

1. GET OUT THE VOTE!
2. WRITE YOUR ELECTED OFFICIALS
3. STAY IN TOUCH
Get Out the Vote!

As much or as little time as you can contribute - we need help turning out voters.

https://www.usa.gov/register-to-vote
Contact your Legislators about Clean Fuel Standards

Leading up to session we need your help writing your elected officials. We are so close, now it's time to push across the finish line.

Use this guide to craft and send a message to your legislator.
Get in touch to support efforts towards building electrification

Efforts across the state need your support, get involved with WPSR to learn how you can help

Priorities: Bellingham, Seattle, Olympia

Reach out to learn more:
nick@wpsr.org

Support our work!
Visit our website and learn how you can become a member.
Our Health, Our Climate

October 8, 2020
The Road to Clean Air

Benefits of a Nationwide Transition to Electric Vehicles

“The Road to Clean Air” highlights the potential for major public health and climate change benefits of widespread electrification of the transportation sector.
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:
- Asthma attack
- Lung cancer
- Wheezing and coughing
- Shortness of breath
- Cardiovascular harm
- Susceptibility to infections
- Lung tissue redness, swelling
Far too often, clean air is out of reach for communities living near major pollution sources, including highways, ports and power plants. Communities of color are disproportionately harmed by poor air quality in the United States.

“The time to act on electric transportation is now.”

Harold Wimmer
President and CEO
American Lung Association
Electric Vehicle Scenario

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.

- **2025-29**
  - School Buses
  - Transit Buses
  - Airport Shuttles

- **2040**
  - Passenger Cars
  - Delivery Vans
  - Refuse Trucks
  - Short Haul Trucks

- **2045**
  - Long Haul Trucks
  - Single Unit
  - Combination
  - Port Trucks

- Compared against Business As Usual Fleet per US EPA MOVES model.
Health Benefits of Avoided Emissions in 2050

$72 Billion in Health Benefits
due to emission reductions in 2050

- **6,300** Premature Deaths Avoided
- **93,300** Asthma Attacks Avoided
- **416,000** Lost Work Days Avoided

American Lung Association
In the Northwestern States, 2050 emission reduction benefits reach:

- $2.1 billion in avoided health costs
- 185 avoided premature deaths
- 2,900 avoided asthma attacks
- 13,000 avoided lost work days

Northwest States
Total 2050 State Health Benefit

- Idaho: $194 M
- Montana: $101 M
- Oregon: $355 M
- Washington: $1.4 B
- Wyoming: $47 M

Northwestern Metropolitan Areas
Total 2050 Health Benefit

- Portland, OR: $0.4 B
- Seattle, WA: $1.0 B
Climate Benefits of Avoided Emissions in 2050

$113 Billion in Climate Benefits
due to emission reductions in 2050

1.5 Billion Metric Tons of CO$_2$e
POLICY RECOMMENDATIONS

Federal Agencies

State Agencies

Local Agencies

Individuals

Actions

“Designate zero emission infrastructure a national priority program...”

“Support affordable zero-emission infrastructure readiness...”

“Invest in publicly available charging infrastructure...”

“...engage with local ride- and-drive events to get a first-hand experience...”
Resources

- Lung.org/ev
- Regional Fact Sheets
- Report Document
- Technical Report
Call to Action online at www.lung.org/ev

Sign Our Petition to Support the Transition to Electric Vehicles
Tell state governors to protect healthy air and support transportation electrification

Help protect healthy air today. Sign our petition supporting Transportation Electrification

Air pollution from transportation harms our health – especially our lung health – and contributes to climate change - threatening our future. It is time for states to take necessary steps to move beyond burning fossil fuels by investing in a transition to electric transportation today.

Please sign our petition to call on your Governor to set the course for transportation and clean power solutions that don’t pollute our air, endanger our health or jeopardize our children’s future. We can’t afford another generation suffering from health issues as a result of traffic exhaust. It is essential to implement clean energy solutions immediately to prevent needless harm to public health.
Electric Carsharing
Climate Leaders Live: Our Health, Our Climate

October, 8, 2020
Puget Sound Clean Air Agency

Our Mission

We work to protect public health, improve air quality, and reduce our region’s contribution to climate change.
Barriers to Electric Vehicle Adoption

Unequal access to technology:

- Higher upfront costs
- Lack of home charging infrastructure
- Unfamiliar with electric vehicles
Carsharing

- Short-term car rentals with a company (Zipcar) or individual (Turo)
- One-way or round trip

Benefits:

- Reduces vehicle miles traveled and greenhouse gas emissions by up to 43%
- Eliminates 9 - 13 vehicles off the road
- Saves households $154 - $435
South Park Carshare

- Neighborhood impacted by transportation pollution
- Study identified South Park as best location for a carshare program
- Partnering with Villa Comunitaria
- Community-owned model
Recommendations

- Conduct a transportation needs assessment
- Collaborate with community
- Invest in education and outreach
- Be flexible and creative
Questions?

Angela Song

• Air Resource Specialist
• AngelaS@pscleanair.gov
• 206-689-4016
Diesel Particulate Pollution- Effects On Climate And Human Health

Jamie Pang (South)
Oregon Environmental Council
Environmental Health Program Director
JamieP@OECOnine.org
Who is Oregon Environmental Council?

Founded in 1968, OEC is a nonprofit, non-partisan, membership-based organization.

We ring Oregonians together to work for clean water and air, a stable climate, and healthy communities.

We forward impactful, lasting solutions that get at the source of Oregon’s environmental problems.

We work at the intersection of human health and the environment.

Our mission:
Oregon Environmental Council advances innovative, collaborative and equitable solutions to Oregon’s environmental challenges for today and future generations.
What is diesel?

- **Diesel exhaust** is a combination of gases and particulate matter produced during the incomplete combustion of diesel fuel.

- The particle’s core is comprised of black carbon (70%).

- A diesel particle can contain up to 40 hazardous substances, including fine particulate matter (PM 2.5), toxic gases such as formaldehyde and benzene.
Black Carbon—Toxic for human health and climate

• **Health**: small particles get into the lungs, heart, and bloodstream.

• It is a potent contributor to **climate change** because it absorbs solar radiation and converts it to heat.
  - It creates powerful short term and local climate effects (e.g., accelerating glacier melt)
  - Has a warming impact on climate 460-1,500 times stronger than CO₂ per unit of mass.

• Measures to prevent black carbon emissions can reduce near-term warming of the climate, increase crop yields and prevent premature deaths.

Diesel Health Impacts- more harmful than we thought

Cost of health impacts in Oregon

- Multnomah county ranks 4th worst in the nation.
- Diesel exhaust prematurely kills 460 Oregonians a year.
- Costs the state $3.5B, every year.

Disproportionate health and climate burdens


Today’s Challenges
Tomorrow’s Oregon
Reducing Diesel Emissions: Many Solutions!

- Reducing diesel use is best for climate and health. The key tool is promoting transportation electrification:
  - CA just set a new zero emissions targets for trucks (called the Clean Truck Rule): WA and OR can do and should adopt similar rules
  - Utilities should invest in more charging infrastructure.
  - States, transit agencies, school districts should electrify fleets.
- Cities can limit idling in areas such as parking lots and construction sites.
- States can choose to regulate emissions from off-road vehicles such as construction equipment within a specific boundary, such as parking lots, harbors, and constructions sites.

Oregon opportunities, agency rulemakings:
- Diesel engine retrofits/phase out (HB 2007, 2nd strongest rules in the nation)
- Oregon clean fuels program – amping up electrification

Sign up for our action alerts! https://oeconline.org/take-action/
https://www.climatesolutions.org/take-action/signup

See also- https://law.lclark.edu/live/files/28011-deconstructing-diesel-concise-guide
Thank you!
Questions
Thanks for joining us! Next month we’ll be talking about

**WA Legislative Preview: What’s next in 2021?**

www.climatesolutions.org/events
October 13, 2020 at 6:00—7:30

WPSR’s Economic Inequity & Health program presents Dr. Dick Conway to speak about Washington’s regressive tax system and the reforms needed to create a more equitable tax code in our state.

bit.ly/wpsr_oct13
Chat #2: Transit on your Ballot | October 20, 2020. 2:00 – 3:00 pm PST


transportationchoices.org/transit-chat-series-transit-funding-is-transit-equity/