

DOUGLAS COUNTY

GLOBAL WARMING COALITION

FALL 2021



MISSION STATEMENT: DOUGLAS COUNTY GLOBAL WARMING COALITION

A catalyst for:

Promoting a healthy climate for our community and future generations.

Identifying and sharing solutions through awareness, advocacy and collaboration.

THE GHOST OF ALBERT EINSTEIN

Humans are highly illogical."

Mr. Spock from Star Trek — the Original Series

My poster is quite accurate. It reads: 'Everything I need to know I learned from Star Trek.' Unfortunately, the latest UN report from the Intergovernmental Panel on Climate Change reads like an apocalyptic science fiction novel. And we can't depend on Scotty to fix things. But before we share that apocalyptic vision, let us whip around the sun as the crew of the Enterprise did in Star Trek IV — The Movie. It takes us back in time to January, 2003 when the Douglas County Global Warming Coalition was formed. Our organization was launched by the showing of a video produced by the BBC — 'The Day The Oceans Boiled.' It presented a scenario of a potential runaway warming world if we continue our present rate of emissions. One sign of a tipping point would be the turning of the Amazon Forest which captures carbon into a savannah which would release the stored carbon. Now, nearly twenty years later, the first observation of this phenomenon taking place has been reported.

So as we return with the Enterprise crew to the present time, we bear witness to what was supposed to occur in the distant future and is now our present.

- ➔ A warming world accelerating faster than anticipated.
- ➔ Unprecedented wildfires raging in Europe, Canada and the American West.
- ➔ Never before seen flooding in Germany and Asia.
- ➔ Heat waves with world-wide temperature records shattered.

CALENDAR

DOUGLAS COUNTY GLOBAL WARMING COALITION'S LOCAL TRANSPORTATION ELECTRIFICATION GROUP

Meeting by Zoom every fourth Thursday — 4 PM
Information — 541-672-9819

OPEN PUBLIC COMMENT MEETINGS

Department of Environmental Quality
Proposed Rules on the Executive Order
on Climate Change

Public comments due Oct. 4

Public hearings for comments:

9/22 and 9/30 4 PM to 7 PM

Information — 541-672-9819

Public Utility Commission Rulemaking on House Bill 2021: The Clean Electricity Bill

Fall — Times to be Announced

Information — 541-672-9819

- ➔ July — the hottest month ever recorded.
- ➔ Greenland losing enough ice in one day to cover Florida.
- ➔ The last decade the hottest in 125,000 years.
- ➔ The highest level of CO₂ in two million years.
- ➔ A slowing ocean circulation system, threatening further climate disruption.

Enough already! Let's escape the present and whip around the sun once more — This time into the future as described by the UN report, twenty years from now. And it appears the UN has embraced Star Trek by labeling the report 'Code Red.' I'm sure they meant 'Red Alert.'

Here is what this Red Alert means:

- ☛ An inevitable hotter future.
- ☛ Hundreds of millions struggling for water.
- ☛ Already reaching the maximum Paris Agreement target of 1.5 degrees Celsius.
- ☛ A billion people sweltering in hotter heat waves every five years instead of the normal every fifty years.
- ☛ Coastal cities regularly flooded.

Cont'd on Page 2 ►

PROMOTE GLOBAL COOLING

✿ Greater die offs of coral reefs which sustain fisheries around the world.

All this if we're fortunate enough to keep the rise in temperature to 1.5 degrees Celsius.

In the Star Trek episode, 'The Galileo Seven,' Mr. Spock insisted 'There are always alternatives.' Will we, at this late date, find the will and commitment to pursue them?

Recently, I was visited by the ghost of Albert Einstein. He wished to remind me of an encounter he had with reporters. Since he was a genius at physics, the reporters asked him "What weapons will be used in World War Three?" Einstein shrugged. "I cannot tell you what weapons will be used in World War Three but I know what weapons will be used in World War Four." Amazed at the scientist's knowledge, they pressed him, "What weapons will be used in World War Four?" Einstein replied: "Sticks and Stones."

I can imagine if Einstein were alive today and reporters asked, "In light of the UN report, what do you think a warming world will look like in twenty years?" Einstein would shrug and say, "I cannot comment on that. But I know what it will look like after that." I'm afraid it's not Einstein but us who must provide the answer.

JUST WHAT HAVE YOU BEEN UP TO?

An End To Polluting Fossil-ities: Thanks to the combined efforts of the Coalition and our State Allies, a far reaching clean electricity bill was passed in Oregon — a bill which mandates all electricity to come from clean sources by 2040 and bans new fossil fuel plants.

Char-ting A Course To Sequester Carbon: The Coalition distributed Biochar to schools throughout the County for their gardens. Biochar is an excellent way for soil to sequester carbon.

We Mind Their P's and DEQ's: The Coalition continued to challenge the Department of Environmental Quality's failure to reduce emissions as required by the Governor's Executive Order on Climate. We have sought an audience with the Governor to address our concerns.

Electrifying A Fleet Will Be Quite A Feat: But the Coalition's transportation electrification group continues to pursue the possibility for local non-profits, businesses and government.

We're Glad You Will Take This Personally: The Coalition continued to post personal climate tips in businesses around the County so we can all do our share to address the climate crisis.

Ask Doctor Cool!* An advice column for the warm-weary.



Dear Dr. Cool,

I've got to rail against high speed rail.

These proposals to build this are off-track. I've heard it can cost up to \$80 million per mile. That's nothing to Golden Spike the ball about. It's time to express our local opposition to this boondoggle. When it comes to high speed rail, Dr. Cool. I'm in no hurry.

Signed,

Casey Atchison

144 Topeka Road

Sante Fe, New Mexico

Dear Casey,

I've got to wonder what your loco motive is in opposing light speed rail. In the fight on climate change, it is a rail-istic option and an a-track-tive alternative to flying. By running on electricity, it reduces greenhouse gas emissions 90% compared to flying. And with the electric grid turning to renewables, high speed rail will only get cleaner.

Reaching speeds of up to 270 miles per hour, high speed rail has made Dr. Cool a big caboose-ter. If we play our cards right, by 2050 it could save 1.4 gigatons of carbon dioxide and transport world-wide seven billion passengers annually. So get on board and join countries in Western Europe and Asia who have pulled out all the stops in this investment in our future. For when it comes to getting around, it is the only way not to fly.

JUST WHAT WILL YOU BE UP TO?

The Coalition Will Play Fall Monitors: We will join our State Allies in monitoring the fall rule making for the Clean Electricity Bill. After all, a State Agency would never fail to fulfill its obligation in this regard. Speaking of which...

You'll Never Hear Us Say 'No Comment': The DEQ will be soliciting public comment on its final rule-making on the Executive Order. We might have a word or two to pass along.

We're Clean And Just — Scout's Honor: As members of the Clean and Just Transportation Network, we are part of an effort to establish goals for the coming year. These priorities include monitoring and commenting on the Oregon Department of Transportation's recommendations for substantially increasing the number of electric charging stations. We will also promote electric bikes as an affordable way to be part of the move to electrify our transportation.

There Is No Future Like The Present: The Coalition will explore ways to involve schools in projects that sequester carbon including biochar.

NOW WE UNDERSTAND: IT WAS JUST AN EXECUTIVE SUGGESTION

When Governor Kate Brown issued an Executive Order in March, 2020, she mandated State Agencies to lower greenhouse gas emissions 80% below 1990 levels by 2050 — first by capping them and then reducing them. However, the Department of Environmental Quality didn't read the fine print — they simply made up their own. First, they decided to ignore half the climate pollution they had the power to regulate. Next, they figured 1990 was too far in the past, so they used 2010 as a baseline instead. Not satisfied with gutting the Executive Order with these steps, DEQ told polluters who had stationary sources — no need to cap your emissions. Just use the best technology available.

And you get to tell us what that is.

As for Natural Gas, polluters can use dirty renewable natural gas (RNG) from landfills — thereby promoting the expansion of landfills.

Short of loopholes? Go ahead and pollute. Just offset it by paying for the development of clean energy. Of course, the fee you are charged may not cover the cost.

Sequestering carbon seemed like a good idea to us and DEQ — until they changed their mind.

After nearly a year of begging, cajoling and reasoning, the Coalition and our allies have sought an audience with the Governor and gone public with our complaints. How disgusted are we in the face of unprecedented heat waves and wildfires? Here's a song to the tune of that old Rock favorite: "I've Had It."

*Under '90 emissions — Your mandate
Then you choose one twenty years late
We've had it. Well, we've had it
Cap emissions — that's the plan.
Then tell polluters — just do what you can
We've had it. Yes, we've had it
4/5 reduction — yes, it's true
By ignoring half of what polluters do
We've had it. Well, we've had it
No natural gas, you claim. We see
You give your blessing to RNG
We've had it. Yes, we've had it
Offset pollution — buy a clean source
Though what you pay won't cover the cost
We've had it. Well, we've had it
Sequester carbon, you promised us
Then changed your mind — there is no trust
We've had it. Yes, we've had it
Nearly a year, we did implore
The world's on fire — we're silent no more
We've had it. Well, we've had it*

Rabbi Hillel said: If I am not for myself, who will be for me. But if I am for myself alone, what am I? And if

not now, When? As the climate emergency engulfs us, we must ask those in power:

IF NOT NOW, WHEN?

Meanwhile...

GETTING TO THE HEAT OF THE MATTER

The Oregon Safety and Health Administration (OSHA) responded to the heat wave with emergency rules for outdoor workers. They include:

- ☀ At 80 degrees — Shade, water, heat illness training
- ☀ 90 degrees — Ten minute breaks every two hours. Available medical care. Communications monitored with supervisors. This rule is stronger than California's rule. In addition, OSHA issued an emergency rule governing protection for workers from wildfire smoke.

Permanent rules are due in the fall. Also due in the fall — an updated Climate and Health Report from the Oregon Health Authority.

CAPTURING THAT CARBON DESPERADO

The Natural and Working Lands Group monitoring agencies' efforts to reduce emissions, prepared a draft on carbon sequestration along with suggested strategies. The State's Global Warming Commission took a look at it and adopted it and encouraged the Department of Environmental Quality to embrace it (see our earlier evaluation of DEQ).

O!DOT'S Good

The Oregon Department of Transportation (ODOT) released a comprehensive report on how best to accelerate the development of a charging station infrastructure in anticipation of a strong embrace of electric vehicles.

O!DOT's Not So Good

ODOT's climate change section issued its recommendations — falling far short of what is needed. The Coalition joined its allies in signing a letter urging strong action on climate change. How these agencies address the climate change?— Just State tuned!



The Coalition is committed to getting our message out in any way and every way. To make sure our web site is out of sight, Steve Sheldon has been invaluable. He has also stepped into the breach when we needed a conduit between the Coalition and information from our allies. Thank you, Steve, for being there, particularly in this time of a climate emergency.

HYDROGEN FROM NATURAL GAS? NOTHING BUT HOT AIR

The Natural Gas industry has promoted its use to create hydrogen as a way of justifying how clean their fuel can be. After all, our local DEQ buys that reasoning. The Senate infrastructure bill, courtesy of fossil fuel apologist Senator Joe Manchin, has devoted \$8 billion dollars for it. But a peer reviewed study that appeared in the journal Energy Science and Engineering shows they are blowing nothing but smoke. Lead author Robert W. Howarth of Cornell University stated: "To call it a zero emissions fuel is totally wrong."

By accounting for life cycle emissions, the study concluded the greenhouse gas footprint of this hydrogen was 20% higher than burning either coal or natural gas. Even if you assume, as the industry dubiously claims, the carbon can be captured, it is still dirtier than burning natural gas alone. The only thing natural about the natural gas industry is their ongoing excuses for poisoning the planet.

WELCOME TO THE ROARING 20'S OR I DON'T THINK WE'RE IN KANSAS ANYMORE

Bootlegging was big in the twenties — the 1920's. But Oregon's Bootleg Fire has given a whole new meaning to the term 'Roaring Twenties.' Marcus Kauffman of the State Forestry Department noted: "The fire is so large and generating so much energy and heat that it's changing the weather. Normally, the weather predicts what the fire will do. In this case, the fire is predicting what the weather will do." And Dorothy never witnessed something like this. Neil Lareau, wild-fire expert at the University of Nevada, Reno, said there were some indications that the Bootleg might have created a "fire tornado." This phenomenon can be several thousand feet in diameter, extends thousands of feet in the air and generates wind speeds of 65 miles per hour.

The fire also created a large, tall cloud. Acting like a thunderhead, the huge cloud spawned lightning strikes potentially capable of initiating more fires.

As the old saying goes: "Everybody talks about the weather but nobody does anything about it." Unfortunately, climate change has allowed us to figure out a way.

A CLIMATE PAYOFF! JUST SEND US THE BILL (A MAJOR CLIMATE VICTORY IN OREGON)

As the month of June scorched Douglas County with record breaking triple digit temperatures and Phoenix, Arizona saw six straight days that reached or exceeded 115 degrees and even Canada buckled under a temperature of 121 degrees, it became clear to all who wished to see that the climate crisis has arrived with a vengeance. The message: We must act fast and act now.

The Oregon legislature did so with the passage of House Bill 2021, the Clean Energy bill. This far reaching legislation will ensure that all of our electricity will come from clean, renewable sources no later than 2040. Better still, it mandates a greenhouse gas reduction in this sector of 80% by 2030 and 90% by 2035. Significantly, these timelines are more ambitious than virtually all other states. By banning the construction and expansion of all fossil fuel plants, we can feel confident that the utilities will not turn to natural gas as the false solution to climate pollution that it is. With the electricity sector representing 30% of all greenhouse gas emission in Oregon, passage of this bill is a major achievement. And it was accomplished through the hard work of climate activists in Douglas County and across the State coming together and speaking with one voice. However, with scientists warning us we have less than ten years to turn the climate crisis around, this success is but the tip of the melting iceberg. We cannot rest until a clean energy future is guaranteed for all.

THE FIGHT WILL CONTINUE.



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YOU'VE GOT A MILLION TONS — AND HOW MANY DEATHS?

According to R. Daniel Bressler of Columbia University, a million tons of CO₂ above current 2020 levels will cause 226 deaths globally in one year. This amount of emissions is just ¼ of the output of a coal fired plant. The research, published in the journal, Nature Communications, labeled the relationship between increased emissions and excess heat deaths 'The Mortality Cost of Carbon.'

Past efforts to calculate the pain of climate change have relied on 'The Social Cost Of Carbon,' a measurement in dollars and cents. But it makes more sense to measure the cost of climate change by the loss of human life.

Mr. Bressler took it one step further by equating individual carbon footprints with excess deaths. He concluded that globally, it takes the emissions of 12.8 people to cause one death. But that's not the full story. Who are the real culprits here? It would take the combined emissions of 146.2 Nigerians to kill one person. And how many Americans would it take? Less than four.

As for our energy use, substituting one coal plant with a zero emissions alternative can save 906 lives over the century. So the next time someone claims solar or wind are just too expensive, let them know about the morality cost of carbon. For when it come to the actual cost of carbon — clean, renewables — that's a price that's right.

THE COALITION REACHES FOR THE TIP-PING POINT

Our 'Friends Of The Climate' project is distributing personal climate tips for businesses to display. Here is an example:

"We're looking at switching our heating from natural gas. It's a big source of climate pollution in Oregon. The most efficient way of heating seems to be an electric heat pump. You may be eligible for a Federal Tax Credit on Energy Star certified heat pumps.

CLIMATE JEOPARDY!

"We are worried. We are much less certain how heat waves behave." Geert Jan Van Oldenburgh, Royal Netherlands Meteorological Institute.

"You might have expected to witness (the heat dome) once during your lifetime — if you happen to be Methuselah." Michael Mann, Professor of Atmospheric Science at Penn State.

Welcome to the game show, 'Climate Jeopardy!' I'm your host — that that old fossil fool — Mitch McConnell: Contestants, today you need to name the secret location. I'll give you a clue and be sure to phrase your answer in the form of a burning question.

Okay, Clue #1: Record setting triple digit temperatures happened here.

Contestant #1: What is the American West?

McConnell: I'm sorry, You're in Climate Jeopardy! Yes, it's true the West is heating up faster than the rest of the country. And records were set in Nevada (117 degrees), Daggett, California (118 degrees) and and St. George, Utah (117 degrees). Did I mention Death Valley hit 107.7? Not impressed? That was the all-time record high for a low daily temperature.

Okay, Clue #2: Last year, wildfires here scorched 60,000 square miles and released as much CO₂ as did all the fuel consumption in Mexico in 2018.

Contestant #2: What is the United States?

McConnell: I'm sorry. Perhaps you'll get the right fire next time.

Yes, it's true this last decade has seen 7.5 million acres burn here — double the last ten years of the 20th Century. But I'm afraid you're consigned to

Climate Jeopardy!

Okay, Clue #3: It is warming faster here than in any other part of the world.

Contestant #3: What is North America?

McConnell: And I thought I was a climate denier. Yes, British Columbia saw hundreds of deaths due to a record 121 degrees. Residents actually fried eggs on their terraces. You might say they should have been scrambling for cover instead. Oregon's climatologist labeled such a record temperature near the Arctic Circle as "terrifying." As for our country, we set 585 record high temperatures during the heat dome, including 236 warmest nighttime temperatures.

Okay, one last chance to escape Climate Jeopardy! Here is Clue #4: The government has required all businesses to report their Greenhouse Gas Emissions.

All the Contestants (with exuberance!): What is every Blue State?

McConnell (smiling): That would have been my guess. The correct question to all these clues is: What is Siberia?

As Siberian firefighter, Seymour Solomonov observed: "This is not a phase. This is not a cycle. This is the approach of the end of the world. Mankind will die out and the era of the dinosaurs will come." Michael Mann comes in, ushering McConnell out. "I'm your new host of Climate Jeopardy! Wise Mr. Solomonov is right. Unless we take action soon on global warming, climatically, we'll all be banished to Siberia.

SO WHAT ELSE IS NEWS? AROUND THE GLOBE

CLIMATE IS THE NEW THIRD RAIL

Flooding is wreaking havoc on subway systems around the world — a train wreck no longer just waiting to happen:

- ☹ In China, floodwaters overwhelmed a subway system, killing twelve people.
- ☹ New York City — a woman made her way through waist deep murky waters in order to reach the subway system.
- ☹ In London — Water cascaded down stairways to their famous underground.

Apparently, the blight at the end of the tunnel can be an oncoming flood.

WE'RE NOT IN HOLLAND ANYMORE

A record flood level of ten feet hit Germany — nothing the country has experienced in a thousand years. As of mid-July, the death toll stood at 160.

THE CLIMATE DOES SWING LIKE A PENDULUM DO

Particularly in not so merry old England which endured the extremes of climate change in July. The heat wave led to a first time ever alert warning people to stay indoors, close curtains and drink plenty of water. This was followed by torrential downpours that in some areas resulted in a month's worth of rain in just a few hours. Over 1,000 calls for rescue came as people in cars were suddenly submerged by flooding. So, to complete the Roger Miller verse:

*The climate does swing like a pendulum do
Heat and floods — now normal, once new
From Westminster Abbey to the Tower of Big Ben
Will this be the future of the little children
This is what happens when we build a society
around being Kings of the Road.*

AROUND THE NATION

CLIMATE AND INFRASTRUCTURE

THE GREAT COMPRO-MISER

The initial version of the Senate's compromise infrastructure bill is truly Buy-partisan. It buys primarily roads and bridges — but as for the climate — here are the numbers on what this Buy partisan agreement will buy:

- ☹ Roads, bridges and airports:
\$146 billion
- ☹ Clean Energy Tax Credits:
0 dollars (down from 363 billion)
- ☹ Electric Vehicles
\$15 billion (down from 157 billion)
- ☹ Public Transit
\$39 billion (down from 77 billion)
- ☹ Research on climate change and energy:
Eliminated

The bill did include some money for climate resiliency. With little money for fighting climate change, it's like

deciding not to find a cure for cancer — but we'll help you get used to it.

TAKING A BIGHT OUT OF CLIME

The Biden Administration proposed the sale of eight leases for offshore wind in the New York Bight area of the Atlantic Ocean. Located between Cape May in New Jersey and the eastern tip of Long Island, it will produce enough electricity to power 2.6 million homes.

WHO WANTS TO BUY A MILLION HERE?

Apparently, when it comes to electric vehicles, GM believes we do. Their goal: one million annual sales of electric vehicles by 2025. Last year, GM committed 20 billion dollars to that effort. That figure has been increased to 35 billion over the next four years.

EVEN THE SEAGULLS CAN'T HELP

Oakley, Utah and the nearby farming town of Henefer, have put a halt on new housing development. The reason: A lack of water due to the drought. Paul D. Brooks, Professor of Hydrology at the University of Utah, warned: "The towns are canaries in the coal mine... Climate change is coming home to roost right now and it's hitting us hard."

DON'T COME TO THE CABERNET, OLD CHUM

At least in the wine Country of California's Napa Valley. Heat and drought induced wildfires have smoke tainted red grapes. In 2020, sales of red grapes plummeted from \$829 million in 2019 to \$384 million in 2020. Climate change has indeed impacted this part of Mr. Rogers' neighborhood where we used to like it just the way Noir.

WE'VE SEEN THIS MOVIE BEFORE

Native Americans are bearing the brunt of climate change and the Federal Government is less likely to help them with disaster relief than Non Native-

Americans. Some examples:

- ☹ The Navajo Nation is running out of drinking water
- ☹ At the edge of the Ozarks, the Cherokee are finding it harder to grow heirloom crops.
- ☹ Along the edge of the Olympic Peninsula, the Quileute Nation has a single road connecting to the outside world — a road often now impassable due to flooding. Stated Doug Woodruff, Chair of the Tribal Council: "Climate change has forced us to make the heart-wrenching decision to leave the village."

AROUND THE REGION

CASTING OFF PEARLS BEFORE THEIR TIME

The climate induced Pacific Northwest heat wave caused an outbreak of intestinal disease in oysters and other shellfish. Washington officials cautioned consumers not to eat locally harvested raw oysters. The disease sickened 54 people, the most ever recorded in July. (An observation for our Jewish Members: Climate change has put the "Oy" in oysters. Then again, oysters are not kosher.)

HOT SPOTS

- ☀ **Aftermath Of A Heat Wave — We Can't Flex Our Mussels:** Dr. Christopher Harley, marine biologist at the University of British Columbia, estimated the death toll of mussels, crabs and other crustaceans due to the heat wave at over a billion. Dr. Harley observed: "The more I walked (along the beach) and the more I saw, the more sobering it all became. It just went on and on and on." (*New York Times*, 7/18/21)
- ☀ **Reaching A Climate Solution — The Fly In The Ointment:** Commercial air travel accounts for 5% of climate pollution in the United States and is projected to triple by 2050. In 2019, airlines used 18 billion gallons of fuel, nearly 1/5 of our total consumption. When it comes to fossil fuel use, we can only hope that United will pull out in time. (*New York Times*, 6/2/21)
- ☀ **A Renault Alternative To Slow Charging:** The French company, Renault, announced that in five years, they will sell an electric vehicle that charges 80% in only twelve minutes. They also vowed to have 90% of their cars electric by 2030. (*New York Times*, 7/1/21)
- ☀ **Mud, Sweat And Fears:** By taking mud samples 200 meters deep in the Northern Indian Ocean, researchers established a direct correlation between levels of CO₂ and the intensity of monsoons. As a portent of things to come, one scientist noted the potential consequences for the people of the Indian subcontinent are dire (*New York Times*, 6/5/21)
- ☀ **The Climate's Being Followed By A Moon Wobble. Moon Wobble. Moon Wobble:** Don't expect Cat Stevens to change the name of his song, but the moon goes through a nodal cycle which will result in a wobble by the mid 2030's. This phenomenon will cause increasing high tides and thus, greater flooding. It's currently part of the cycle that is actually suppressing sea level rise. Perhaps the more timely song will be Credence Clearwater's 'I see a bad moon wobbling.' (*New York Times*, 7/18/21)
- ☀ **No Magic Wand To Save The Arctic:** The Wandel Sea region near Greenland was supposed to be the last sea ice to go in the Arctic. New research suggests otherwise. In August, 2020, the area was covered with thin ice and open water. Stated researcher Melinda Webster of the University of Alaska, Fairbanks: "What we experienced last summer was unprecedented. But that's probably going to be the norm in the coming decades." (*New York Times*, 7/3/21, citing the journal, *Communications, Earth and the Environment*)
- ☀ **These Waters Might Rise Above Its Great Shoulders:** Lake Michigan is causing havoc in Chicago — in more ways than one. Last year, it reached a record summertime high. And in May, record precipitation resulted in flooding. Computer projections suggest this year the Lake will break last year's level by two feet. Of course, 2013 showed how the extremes of climate change can work in the opposite direction. That was the year heat and evaporation resulted in all-time low levels in the Lake. As for a potential high water mark, Joel Schmidt, Army Corps hydraulic engineer commented: "It would be a problem. It would be a big problem. All the way down to the Mississippi." (*New York Times*, 7/11/21)
- ☀ **April Showers Bring May Hurricanes: Or At Least They Do Now.** Officially, hurricane season begins in June. But for the seventh year in a row, a hurricane developed in the Atlantic in May. And in July, the fifth storm of the season hit New York, the earliest on record that the Atlantic Basin had seen a fifth named storm. As of the end of July, this year's storm season is ahead of last year's record pace. (*New York Times*, August 3, 2021)
- ☀ **The Wildfire Murder Mystery — Locating The Corpus DeCacti:** Saguaros, the iconic cacti of the Southwest, are being threatened by the climate induced wildfires in Arizona. Last year, wildfires left thousands dead and many badly damaged. Most alarmingly, of the 10,000 Saguaros surveyed in Saguaro National Park, only 70 were younger than eleven years old. When it comes to addressing climate change and its consequences, unlike the Saguaros, we've been spineless. (*New York Times*, August 4, 2021)
- ☀ **In Germany, Fighting Climate Change Is A High Wire Act:** That is what is being tested for trucks to go electric. Metal skids atop the cab reach out to wires overhead along the highway, allowing the truck to run solely on electricity. By delivering power directly from the grid, it is energy efficient and saves money. The cost to install these along the highway is five million dollars per mile. In New York, we had a name for this type of system — We called them Trolleys. (*New York Times*, 8/3/21)

WE HAVE THE CAPACITY TO EMAIL THE NEWSLETTER TO PEOPLE WHO PREFER IT PLEASE CONTACT: dglobalwarming-coalition@gmail.com

MENTION OUR NAME IN SHEBOYGAN And also the Coalition when you patronize any of our generous sponsors.

JUST THE FACTS MA'AM

Ever feel you miss information because of climate deniers' misinformation?

Myth: The June/July 'Heat Dome' which blanketed the Pacific Northwest and smashed temperature records had nothing to do with climate change.

Fact: The heat dome which threatened our dome-icles, had everything to do with climate change. So concluded an International team of 27 scientists from the organization World Weather Attribution. In fact, they stated it was virtually impossible to happen without climate change. They also stated that an additional temperature increase of 1.4 degrees would result in this type of heat wave every five to ten years.

Professor Kristi Ebi from the Center for Health and Global Environment and co-author of the study put it bluntly: "Climate change is killing people."

And with the help of Julie Andrews, we note "The Hills Are Afire With The Sound of Warming" in the following way:

Dome - Oh, Dear! What have we here
Re - Heat trapping from the Sun
Me - It's up to us - ourselves
Fa - There is no place to run
So - We cannot turn our heads
Lots - Of Solar gets our dough
EV's - We'll drive these care instead

That's how we'll beat the Dome.

TOYOTA SHOULDN'T 'GO PLACES' JUST ONE SPECIFIC PLACE

It wasn't enough that Toyota sided with the Trump Administration to lower mileage standards. Or the industry lobby group, Alliance For Automotive Innovation which opposed the higher California mileage standards is headed by a senior Toyota Executive. Now Toyota is rejecting electric vehicles preferring — you guessed it — their gasoline powered hybrids. Influence Map, a London based think tank that tracks climate corporate lobbying, gave Toyota a D minus grade. And why not? Their campaign donation recipients included 22 climate denying members of Congress. A D minus grade? Perhaps an F plus is in order. But if you do choose to go places to buy a car, consider the Big Three auto makers — GM, Ford and Chrysler which joined in support of President Biden's Executive Order setting a goal of 50% of car sales as electric by 2030. I give that grade an A+.

WE VOLT WITH OUT FLEET

Our local Transportation Electrification group, consisting of stakeholders from businesses, utilities and advocates, continues to explore ways to electrify fleets of businesses, government and non-profits. Electrifying busses might also be a possibility. Since Lane Transit District is transitioning to electric, we will try to arrange a field trip to see if this could apply here.

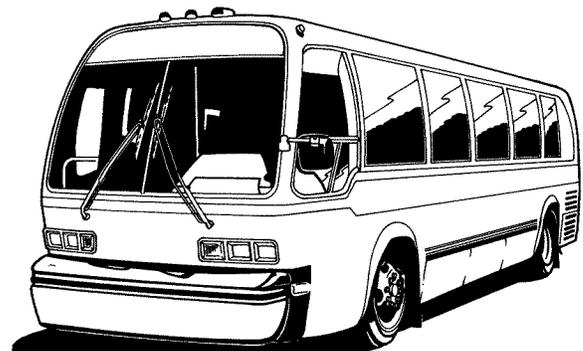
Meanwhile...

IT'S TIME TO AMP UP OUR EFFORTS

The State-wide Electrification group has set goals following a successful legislative session. They include:

- ⚡ Monitoring the implementation of electrification legislation.
- ⚡ Making sure the Department of Environmental Quality follows through on rules electrifying medium and heavy duty trucks.
- ⚡ Promoting and seeking funding for electric bikes — an affordable option for low and middle income residents.
- ⚡ Working with the Public Utility Commission as utilities submit their plans for investment in an electrification infrastructure.

Simply put: The future is current.



DO YOU
THINK YOU
CAN KEEP
UP WITH
THE
COALITION?

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one way:
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BIOCHAR: CARBON SEQUESTRATION WITH BENEFITS

Scott McKain

The biochar delivery to school and community gardens has been slow during summer break. I anticipate the first school garden and farm-to-school meeting to be scheduled soon. This will be an opportunity to answer questions and schedule deliveries to gardens still in need.

The biochar for this program is manufactured by Oregon Biochar Solutions located in White City, Oregon. It is a subsidiary of Biomass One, an electric generating company using waste wood as an energy source. Originally electricity was its only product. Now with adjustments to equipment and procedures biochar

is a second product. Producing biochar has no impact on the amount of electricity generated. They can produce 4000 tons of biochar a year.

Oregon Biochar Solutions will be participating in the Puro Earth carbon removal marketplace. This will enable them to sell carbon offsets which will then make biochar cheaper for soil restoration and other uses. Regardless of its ultimate use biochar carbon will be sequestered in a stable form for 1000 years.

Shopping recently for shampoo and toothpaste I found both with charcoal as an ingredient. How charcoal affects sewage treatment is an unknown.

TIME TO WEIGH IN ON GLOBAL WARMING



Each of us produces
17 tons of carbon dioxide annually
and it's time to slim down.

TODAY'S COALITION DIET TIP

Given the intensity of climate change induced heat waves, house-warming gifts are not exactly what is needed. Cooling the house? Just know when to run those air conditioners (A/C's) and fans. And to give the message a Calypso beat, we offer you not "Jamaica Farewell" but:

ENERGY FAREWELL

*When you're away and you're feeling gay
And the A/C's running so without a stop
Here is a tip while you're on a trip
Energy waste up to the top
For I'm bound to say, while you're away
Stop the fan when gone all day
The heat's not down. But you're not around
It helps save energy I have found
Sounds of laughter everywhere
Climate deniers' watch you come
Buy an A/C in despair
Larger than needed to cool your home
So I still must say, Listen I pray
Just the flies will dance and play
When you're gone — my words go along
And I promise not to write another song.
And these tips will lessen climate pollution
and save energy —
Night and Day-O*

**DO YOU THINK YOU CAN KEEP UP
WITH THE COALITION?
Here's one way:
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ON CLIMATE: A PAEAN FROM THE EUROPEANS

The European Union (EU) has upped their commitment to fighting climate change. This includes:

- NOT GIVING A NICKEL — BUT A DOUBLE NICKEL**
55%! That is the new emissions reduction commitment below 1990 levels by 2030. To accomplish this:
- ♻️ 38.5% of all energy will come from renewables by 2030.
 - ♻️ Sales of gas and diesel powered cars will end in 2035.
 - ♻️ All sectors of the economy pay a price for their emissions.
 - ♻️ Charging stations will be no more than 36 miles apart.

FLY RIGHT (BROTHER)

- ♻️ A mandate for airlines to begin mixing synthetic fuels with their fossil fuels.
- ♻️ A tax on jet fuel on flights inside the EU.
- ♻️ Airbus, whose main stakeholders are France, Germany and Spain, plans to develop carbon neutral planes in five years.

THE SHIPPING INDUSTRY TREADS WATER

- ♻️ Shipping cargo by water is particularly singled out to pay to pollute. This is designed to encourage a transition to green energy.

A TARIFF-IC IDEA

- ♻️ Perhaps the most radical concept is a carbon tariff on imports from countries not taking similar aggressive actions on climate. This would provide incentives for other countries to adopt the EU's climate goals.

INVITING THE MASSES TO A CLIMATE SOCIAL

- ♻️ To avoid the protests that followed France's climate policy, a Social Climate Fund will be set up. It is designed to raise 83 billion dollars to help people most affected by the transition to a clean economy. And why can't we do the same? As the old saying goes:

CONGRESS IS THE OPPOSITE OF PROGRESS.

DOUGLAS COUNTY GLOBAL WARMING COALITION
143 SE Lane Ave.
Roseburg, OR 97470

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AS THE WORLD PREPARES FOR THE NEXT CLIMATE SUMMIT TO BE HELD IN SCOTLAND THIS NOVEMBER,
WE NEED TO SHOW WE GIVE A PLUG NICOLA ABOUT GLOBAL WARMING.

AFTER ALL, THIS IS ANOTHER FINE LOCH NESS WE'VE GOTTEN INTO.

WE COULD ENLIST THE HELP OF STAR TREK'S SCOTTY:

"CAPTAIN, WE'VE GOT NO POWER — EXCEPT RENEWABLES."

WHAT WE DO ON CLIMATE CHANGE DOES MATTER

NOT ANTI-MATTER — OR WE'LL ALL BAIRN UP.

WITH YOUR HELP, THE COALITION WILL DO WHAT MATTERS.

SHOW YOU GIVE A TAM ABOUT CLIMATE.

YES, I FEEL KILT-Y ENOUGH TO DONATE. HERE'S MY CONTRIBUTION OF :

\$18 _____ \$25 _____ \$50 _____ OTHER _____

I WARNED YOU LAST TIME ABOUT THOSE PUNS. HERE'S \$100.

DO THIS AGAIN AND I'LL HAVE YOU ARRESTED AND THROWN INTO THE BRIG-ADOON.

Make your check payable to:

OEC., 143 SE Lane Avenue, Roseburg, OR 97470. Thank you.

Name: _____

Address: _____

Phone: _____

____ I want to volunteer