

DOUGLAS COUNTY

GLOBAL WARMING COALITION

SUMMER 2023



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 CURSE OF MY FAIR LADY

“Why can’t the English speak English?”

Professor Henry Higgins from the movie “My Fair Lady”

When Professor Henry Higgins expressed his frustration with the way the English pronounced their own language, he came up with his famous rhyme: ‘The rain in Spain stays mainly in the Plain.’ That may have been true back then. But now we have climate change.

DREAD IN MADRID

In Spain, they have seen thirty straight months with below average rainfall. As a result, reservoirs are now at 50% of capacity. And 27% is in a drought emergency alert. In spite of the cooling phenomenon La Niña that has existed world-wide for the last three years, Spain experienced its sixth driest year in 2022. This has impacted olive oil, Spain’s main export which hit its highest price in 25 years.

IF YOU CAN’T STAND THE HEAT, HERE’S WHY

Last year was the hottest on record in Spain, with a temperature of 101.8 degrees this past April, the highest any April has seen. Summertime temperatures now last five weeks longer than they did in the 1980’s. Extreme heat and drought — no surprise that Spain suffered from wildfires that burned 780,000 acres in 2022, the worst in Europe. The culprit: climate change. So concluded a study by the Royal Netherlands Meteorological Institute, noting such temperatures would have been almost impossible without global warming.

THE PEOPLE IN MARRAKESH EXPRESS LITTLE HOPE

That’s because countries near Spain are suffering a similar fate. In Morocco, Marrakesh set an April temperature record of 106 degrees. Their

CALENDAR

THE UMPQUA TRANSPORTATION ELECTRIFICATION TEAM PRESENTS

“SHOW AND SHINE”

AN ELECTRIC VEHICLE DISPLAY

Friday, July 7th, 8:30AM to 4PM

Lithia Ford Dealership

1650 NE Stephens, Roseburg

Information: 541-672-9819

THE DOUGLAS COUNTY GLOBAL WARMING COALITION PRESENTS

THE RETURN OF THE GREEN AND SOLAR TOUR

October, 2023 — Date, Time and Place TBA

Information: 541-672-9819

UMPQUA TRANSPORTATION ELECTRIFICATION TEAM

MONTHLY ZOOM MEETINGS

Fourth Thursday — 4PM

Information: 541-672-9819

UMPQUA WATERSHEDS PRESENTS RIVER APPRECIATION DAY

Saturday, July 1st, 1PM

Whistlers Bend Park

Information: 541-672-7065

umpquawatersheds.org

UMPQUA WATERSHEDS PRESENTS TWIN LAKES YOUTH WILDERNESS CAMPOUT

July 21st to July 23rd

Information: 541-672-7065

Jessica@umpquawatersheds.org

wheat crops have suffered and food prices are on the rise.

IT’S BEEN SO LONG AND NO GOOD, SOMALIA

It’s exactly two and a half years of meager rainfall not only in Somalia but throughout East Africa. It is the longest extended drought ever recorded. And it has brought the region, one of the poorest in Africa, to the brink of famine. For Somalia, it has meant 43,000 excess deaths, half of whom

Cont’d on Page 2 ►

PROMOTE GLOBAL COOLING

were children under five. Throughout the region, hundreds of thousands have fled their homes. According to World Weather Attribution, climate change has made this drought 100 times more likely.

THE SHAME OF THINGS TO COME

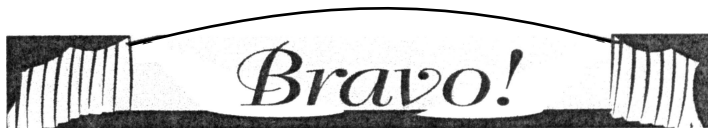
And what does the near term future hold? Thanks to the world's tepid action on fossil fuels combined with a coming warming trend from an El Niño, the World Meteorologic Organization issued this dire report.

Over the next five years:

- ☠ There is a 98% chance that one of the years will be the hottest on record.
- ☠ Arctic temperatures will be three times the global average, up from twice the average.
- ☠ There is a 66% chance we will reach an increase in temperature of 1.5 degrees Celsius over pre-industrial times. This is up from a 20% chance five years ago and a 50% chance three years ago. Why is this significant? Because 1.5 degrees is the maximum increase targeted by scientists.

REVISING DON QUIXOTE

For Spain and the rest of the world, we cannot afford to tilt at windmills. We must build more of them. And fast. We all know we need to get off fossil fuels. Because it's bad enough now. Will it get worse? To quote Eliza Doolittle in My Fair Lady: "Just you wait, Henry Higgins. Just you wait."



It takes many hands to make rides work. And on Earth Day, this was never more true than for the Electric Car Ride And Drive. The advocacy group FORTH went forth and the participants multiplied. And we must say Viva, AVIVA, for donating the site and helping coordinate the event. Scotty from Star Trek might complain 'Captain, we've got no power!' but we had Pacific Power. As for the Fair portion, what is more fair than to thank all those who had booths and Umpqua Watersheds for co-sponsoring. And, of course, the Umpqua Transportation Electrification Team for exemplifying the teamwork needed to make it all happen. If you missed the event, in the immortal words of all the second place baseball finishers — 'Wait Till Next Year!'

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

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



Dear Dr. Cool,

I am the World's Greatest Detective who has just arrived in London from a three year hiatus in Norway. You, I understand, are the second most famous doctor after my compatriot (actually, the third most famous, if you count that doctor who people falsely believe wrote all those stories about me.) Now that everyone has convinced themselves the pandemic is over, why don't you do what so many people are doing — fly out to visit. Hey! It's summer! What better way to travel than by plane? After all, to air is zoomin. When you get here, I'll tell you Wats-on tap for my future exploits. Because there is no police like Holmes.

*Signed,
S. Holmes
221B Baker Street
London, England*

PS: And if you like we can stop over and enjoy the view of the Reichenbach Falls.

My Dear Holmes,

Let me correct the air-er of your ways. When it comes to the climate, I prefer my home to Holmes. Flying is not a seven per cent solution but a five per cent pollution. Because that is the percentage of climate pollution for which flying is responsible. In fact, one hour of flying produces as many emissions as the typical Bangladeshi does in a year. Just before the pandemic, plane flights in America used 18 billion gallons of fuel — 1/5 of our total consumption. Do we wish to go back to that? As for travelling to Europe, my grandmother summarized her attitude this way: "Big deal. I was born there." And if I were to go there by plane, I would emit as much CO₂ as the average American car does in a year. So let's not put the oil in Doyle. My recommendation: When it comes to flying, follow the example of the dog in your story 'Silver Blaze.' Do nothing in the night time — or the daytime either. Frankly, I'm suspicious the great Sherlock Holmes would fail to see this. Are you sure your name isn't Moriarty?

THE SALEM REPORT

OR:

WALK, DON'T RUN

The Senate Republicans ended their 'walkout,' which deprived the legislature of a quorum to do business. The recently passed constitutional initiative denies them the ability to run for re-election, thus their boycott of the legislature has ended. As a result, they returned to pass a State budget — one which must reflect our climate priorities. We lobbied for the inclusion of our bills and informed our supporters to do the same. Here is a synopsis of the bills we are highlighting:

TAKING A TIP FROM THE THIRD LITTLE PIG

- To make buildings more climate resilient while reducing emissions, these four bills will do just that:
- 👉 Senate Bill 868 sets a target of 500,000 energy efficient heat pumps, primarily to low and moderate income households. Passed!
 - 👉 Senate Bill 869 will upgrade energy efficiency standards for new buildings, thus reducing emissions and energy costs. Passed!
 - 👉 Senate Bill 870 will require large commercial buildings to meet energy and emission reduction standards over time. Passed!
 - 👉 Senate Bill 871 will remove barriers for state buildings to accelerate their energy upgrades. Passed!

LOOKING FOR GROUND ZERO

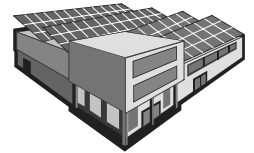
- 👉 Senate Bill 530 will aim for zero emissions from agricultural and forest practices by offering financial incentives to businesses that incorporate smart climate practices in these areas. Passed!

THERE IS NO SUBSTITUTE FOR SUBSIDIES

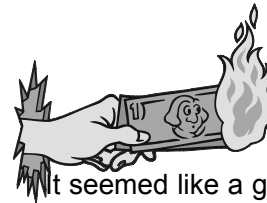
- 👉 House Bill 2613 will provide an additional 30 million dollars in rebates for electric vehicles. This highly successful program ran out of money early due to its popularity. We would rather rebate than switch back to gas powered cars.
- 👉 House Bill 2571 will set aside nearly seven million dollars for rebates for electric bikes. The Coalition is pleased to be "spokes" persons for these bikes.
- 👉 House Bill 2714 will offer rebates for electric medium and heavy duty vehicles. These electric vehicles — they're not heavy — they're our druthers. Passed!

With the passage of these bills, we are in a better position to say "Who's afraid of the Big Bad Wolf of climate change?"

GROWING ACCUSTOMED TO THE PACE



Forget about the urban/rural divide. This is all rural. The United States Department of Agriculture announced they are accepting applications for their PACE program. This will provide loans to renewable energy developers including non-profits, electric cooperatives and other electric service providers for solar, wind, geothermal and energy storage projects. At least 40% of the benefits will go to disadvantaged communities. Provisions allow for up to 60% of the loans to be forgiven. And unless you think this program went in one ERA and out the other, their new ERA program offers rural electric cooperatives grants to build renewable energy systems. The total investment, courtesy of the Inflation Reduction Act, amounts to over 10 billion dollars.

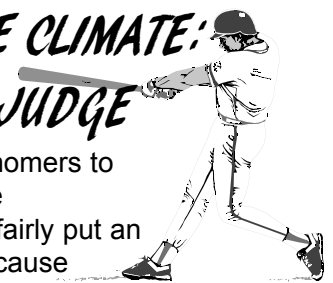


GIVING NO CREDIT WHERE CREDIT IS DUE

It seemed like a good idea at the time: A federal tax credit of up to \$7,500 for purchasing electric vehicles manufactured in North America. But instead of phasing in the rule, the Treasury Department came down with a hammer and qualified only eleven electric cars from four automakers: GM, Ford, Tesla and VW, less than 1/4 of all available EV's. And the impact was immediate. A survey by cars.com found 80% of potential EV buyers said tax credits played a big role in their decision to purchase one. Hyundai and Kia electric vehicle sales have plunged 25%. Stated Chris Harto, senior policy analyst for Consumer Reports: "It's creating all sorts of chaos for consumers."

MESSAGE FROM THE CLIMATE: THERE GOES THE JUDGE

When Roger Maris hit 61 homers to break Babe Ruth's record, the Commissioner of Baseball unfairly put an asterisk next to the record because Roger played more games than the Babe. Last year, Aaron Judge hit 62 homers, breaking Roger's record. Alas, thanks to global warming, we'll need an asterisk next to Judge's name. A team of Dartmouth scientists found that the one degree increase in temperature from global warming has increased home run production by 50 per year. The reason: Hotter, thinner air makes the ball carry further. I'm afraid, Mr. Judge, the jury is no longer out. In the modern baseball world of steroids, altered baseballs and global warming — Roger — You're still the Home Run King. And no asterisk need apply.





JUST WHAT HAVE YOU BEEN UP TO?

On Climate — We're The Over-The-Bill Gang: The Coalition gave written and oral testimony on numerous climate bills being considered by the State legislature. (see article inside)

Something To Ride Home About: On Earth Day, the Coalition co-sponsored an electric car Ride and Drive offering the opportunity to experience the future that is here.

On Earth Day, We Showed We Can Do Booth: Not only did the Coalition co-sponsor the Ride and Drive, but we helped organize an Earth Day Fair at the same time.

Want To Know How To Lower Your Carbon Footprint? — We Ad Information: The Coalition ran weekly informative spots in the News Review on how individuals can do their share to lessen their impact on the climate.

All Presented And Accounted For: The Coalition held its first of what will be a series of presentations to community groups on how to individually and collectively take action on climate change.

JUST WHAT WILL YOU BE UP TO?

Return Of The Prodigal Sun: The Coalition will be bringing back our annual Green and Solar Tour which will reflect the latest technology. Stay tuned for the exact date in October.

When It Comes To Sharing Electric Bikes, We Speak With Authority: The Coalition will be partnering with the Douglas County Housing Authority on their electric bike sharing program for their tenants. The program is set to begin this summer.

On Climate Change: A Clear And Presentation: The Coalition will continue its series of presentations to community groups on how to take action on climate change. If your group or organization wishes to be part of this series, contact us by email: dglobalwarmingcoalition@gmail.com

A Lithium Display At Lithia: The Coalition will be part of an electric vehicle display sponsored by the Umpqua Transportation Electrification Team to be held at the beginning of Graffiti Week. It will be held with other groups at Lithia Ford Motors.



☀ **Meet The E-Van-gelicals:** Owners of commercial transit E-Vans, like plumber Mitch Smedley, found his business was going down the drain from gasoline costs totaling \$140 per week. When he switched over to an E-Van, his electricity costs were \$9 per week. Or Brad Jacobs, whose company Merchants Fleet manages delivery service trucks, realized a saving of \$10,000 a year per vehicle between fuel and maintenance costs. Observed Mr. Smedley: "When I look at the cost savings over five years, it's like getting a free van." (New York Times, 5/18/23)

☀ **All Offshore Doesn't Stay Offshore:** Offshore oil and gas operations in the Gulf of Mexico are worse than we thought. A study published by the National Academy of Sciences showed climate changing methane emissions are twice as great as originally estimated by Federal Agencies. (New York Times, 4/4/23)

☀ **You Can't Blame George Romero For This:** 'Zombie' forests are taking over California's Sierra Nevada. Researchers at Stanford University found one fifth of the conifer forests are unable to repopulate due to the warming, drier climate — even though the older, mature trees survive. Ultimately, the forest is likely to be replaced by shrub-like vegetation. Perhaps Mr. Romero can give us an updat-

ed sequel to his famous movie with a new title 'Plight Of The Living Dead.' (New York Times, 3/8/23)

☀ **A Climate Solution In Plane Sight:** Zero Aviva, a London based company, is developing a hydrogen — electric propulsion system that can fly a 76 seat plane up to 500 miles. The goal is to have it commercially available in five years. (New York Times, 5/5/23)

☀ **When It Comes To Electric Vehicles, Volkswagen Has Got The Bug:** Volkswagen has announced plans to invest 193 billion dollars in electric vehicles. Their goal is to have 20% of all car sales be electric by 2035. (New York Times, 3/15/23)

☀ **Would Glen Campbell Have Turned Around And Gone Back Home?:** Perhaps after reading a study published in the journal Environmental Science and Technology. An assessment of the impact on Phoenix if they suffered from a heat wave and extended blackout concluded the following: An estimated 789,600 people would require emergency department care for heat related illnesses and 12,800 people would die. Stated the lead author, Brian Stone Jr.: "I describe this as the greatest climate-related hazard we can imagine — a blackout during a heat wave." (New York Times, 5/24/23)

THE UMPQUA TRANSPORTATION ELECTRIFICATION TEAM TEEMING WITH ACTION!

And they certainly are. Dedicated to promoting the use of electric vehicles, the team consists of representatives from the Coalition, utilities, non-profits, businesses and advocates. Here is a sample of what they have been up to.

ON THE RIDE SIDE OF HISTORY

And what better way than to offer an electric car ride and drive on Earth Day. Hundreds of people turned out to sample what it is like to drive an EV — with a variety of models to choose from. Thanks to the advocacy group FORTH, AVIVA Health and Pacific Power for making this happen.

E- BICYCLES BUILT FOR MORE THAN TWO

The Housing Authority of Douglas County will launch a pilot electric bike sharing program for its tenants early this summer. Two bikes will be located at the apartments on Stanton Street and one at the apartments on Vine Street. Making these bicycles accessible to low income households can ease their transportation burden while making a difference for the environment. The Global Warming Coalition is pleased to be a partner by covering part of the cost of the purchase of these bicycles. The bikes will be available during business hours and the program will be administered by the Housing Authority staff.

DOUGLAS ELECTRIC COOPERATIVE WE'RE GLAD TO HAVE OUR PHIL

Douglas Electric Cooperative is all in on electrification of our transportation. Thanks in large measure to the work and advocacy of Phil Bigler, here are some of the plans they are pursuing:

- ☀ Purchase of a Ford Lightning for their fleet.
- ☀ Possible purchase of an electric vehicle for staff use.
- ☀ Installation of two electric charging stations.
- ☀ Rooftop solar with battery backup.

A GRANT NOT FROM THE ROCK GROUP 'THE WHO'

In order to be keeping mobile electrically, Pacific Power is offering mobility grants for non-residential businesses and non-profits.

WE'RE NOT TALKING SHOES, HERE

The Umpqua Transportation Electrification Team will be part of a 'Show And Shine' event where we will display a variety of electric cars and answer commonly asked questions. We will be part of several groups there that will kick off Graffiti weekend. This event will be held on Friday, July 7th at the Lithia Ford Dealership — 1650 NE Stephens between 8:30AM and 4PM. Join us and learn about the future silent majority.



JUST THE FACTS MA'AM

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

Myth: A rapid transition to electric vehicles will result in major job losses and crush the electric grid..

Fact: Who is leading the rush to buy electric vehicles? A Norwegian would. Last year, 80% of car sales in Norway were electric. And in two years, no Internal Combustion Engines (ICE) can be sold. The Norway message: The ICE can leaveth.

And what is the result of this frantic embrace of electric vehicles? They have left the school of hard NOx behind. The pollutant, Nitrous Oxide (NOx) has dropped dramatically along with cases of asthma. CO₂ levels have dropped 30% since 2009. And the noise level is low in Oslo. But what about the electric grid and job losses? Electricity demand is up only modestly, thanks to most people charging at night. And auto mechanics are still around servicing the remaining old gas powered cars. The transition is creating jobs in the battery recycling industry. And of all the ironies, Volkswagen of diesel pollution fame has cornered 1/5 of the electric vehicle market.

So, to the tune of 'Norwegian Wood,' we offer this:

*I once had a car or should I say
A gas car had me
Now, I drive an EV
I feel so good. Like a Norwegian would.*

OK, it's not the greatest Beatles parody, but it's a step up from the old gas powered one sold by Volkswagen.

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SO WHAT ELSE IS NEWS?

AROUND THE GLOBE

THE POOL ON THE HILL

How do you ensure there is enough electricity during the down times of wind and solar? One answer is pumped storage. And China accounts for 80% of these projects. When the electricity generated exceeds demand, water is pumped to a reservoir on the top of a hill. When demand spikes, the water is released to a reservoir at the bottom by a turbine generating power. The larger projects produce enough power for two million homes for an hour.

THE SALT OF THE EARTH

Car manufacturers in China showcased an electric car with all sodium batteries. By replacing lithium, sodium has the advantage of being more efficient at lower temperatures. And it is more plentiful than lithium.

JUST STEER CLEAR OF

THE OCTOPUSES' GARDEN

Britain has come to an agreement with the Netherlands to build a giant undersea electric cable to share offshore wind power. By doing so, it will lessen their dependency on natural gas.

AROUND THE NATION

HERE'S HOPING HE DOES A BANGA UP JOB

President Biden has selected Ajay Banga to be President of the World Bank. With a strong climate commitment, Mr. Banga will replace Trump appointee David Malpass who resigned amidst criticism of his climate denialism.

LET'S HOPE IT CAPTURES

MORE THAN THEIR IMAGINATION

The Environmental Protection Agency has issued a new rule requiring coal and gas plants to eliminate carbon emissions by 2040. They can do so by cutting emissions or capturing and storing the carbon — a strategy many view as unproven. If the rule survives legal challenges, it will put the United States on track to meet Biden's goal of cutting carbon emissions in half by 2030.

NO PLACE FOR JUMPING JACK FLASH

The State of New York became the first State to ban natural gas hookups in new construction. Currently, 61% of households in America use some form of natural gas. The number is 82% in New York. A Federal Appeals Court struck down a similar ban in Berkeley, California as unconstitutional. It is unclear if it will apply to New York. It is also possible the decision could impact the natural gas ban in Eugene.

NO NEED TO GO SOLO ON SOLAR

For renters who are unable to install rooftop solar, community solar allows them to invest in solar projects and reap the benefits. The Biden Administration has dedicated \$80 million to expand this program. The goal

is to have five million households on board by 2025, tripling today's number.

LITTLE EVA WOULD BE PROUD

California became the first state to limit rail pollution. Locomotive engines over 23 years old will be banned in 2030. Further, they cannot idle for more than thirty minutes. To paraphrase Little Eva: "No pollution when we do the locomotion."

MORE FOSSIL FUELS?

THANKS, DON'T MANCHIN IT

But President Biden will. Senator Joe Manchin has been pressing for more rapid approvals of oil and gas projects and President Biden agreed in return for construction of new transmission lines essential for clean energy development. Nearly 300 environmental organizations came out in opposition to the plan.

ELECTRIC GARBAGE TRUCKS

ARE IN IT FOR THE LONG HAUL

California received approval from the Biden administration to require half of all garbage trucks and other heavy vehicles be electric by 2035. Maybe they received approval because the request was made to the tune of the old rock song 'Yakity Yak.'

For the future we will stash

In EV garbage trucks the trash

No maintenance, we will save cash

We'll save the planet in a flash

A gas truck, Mac? No turning back

CALIFORNIA'S COMMITMENT

IS NOT ALL GARBAGE

In fact, there are over one and a half million electric vehicles on the road, two years ahead of their target date. The first quarter of 2023 set records for sales with nearly one quarter million sold.

PROMOTING SOLAR? BIDEN'S NOT TARIFFIED

President Biden vetoed legislation that would have reimposed tariffs on solar panels from China. The rationale: By keeping solar costs low, it will be easier to meet our climate goals. While American manufacturers are unhappy, importers and installers welcomed the news.

REVEZS' REVISION REVIVES REVIEWS

Whoever heard of the Office Of Information and Regulatory Affairs? It's the place where, under Trump, environmental regulations go to die. But Richard Revesz, its Director, will have none of it. He has recalculated the impact of climate, shockingly, by including its effect on future generations as well as on poor and minority communities. As a result, Trump's social cost of carbon of \$50 per ton now calculates at \$200 per ton. This will allow greater regulation of climate pollution. While Biden is President, Revesz's revisions will not be reversed.

Cont'd on Page 9 ►

AROUND THE REGION

A WAY TO RELIEVE SCOTTY'S ANXIETY

We Trekkies have heard this many times. Engineer Scott declares: "Captain, we've got no power." Portland General Electric has an answer: Construction of 400 megawatts of battery storage sufficient to power 260,000 homes for four hours. When completed, it will be the second largest battery storage project in the country.



MESSAGE FROM YOGI: IT'S DEJA-VU ALL OVER AGAIN



When the Mayor of New York City met the baseball great Yogi Berra, he said "Yogi, you're pretty cool." Berra's response: "You're not so hot yourself."

For the last three years, the planet has been experiencing the climate phenomenon 'La Niña' which cools the planet. In spite of that, because of global warming, we have seen record heat, droughts and flooding. For example, in 2022, Europe suffered its warmest year. And this year we saw the second warmest March world-wide along with the second lowest amount of sea ice coverage at both poles for that month.

And the worst is yet to come.

The National Oceanic and Atmospheric Administration (NOAA) predicted a greater than 80% chance we'll see an El Niño this Fall — a warming trend the opposite of La Niña. With global warming acting as a multiplier effect and adding to the misery, we can expect more heat records to fall as well as an increase in extreme weather events.

Even though it will get hotter, as Yogi might observe, the result is not so hot.



Bitcoin mines are doing their bit to wreck the climate. The New York Times examined the top 34 Bitcoin mines for energy use and carbon dioxide emissions. Together, they use enough electricity to power three million homes. Put another way, each Bitcoin mine uses 30,000 times the amount of electricity as the average U.S. home. As for carbon pollution, together they emit 10.4 million tons of CO₂ each year, equal to adding 3.5 million gas powered cars on the road. Professor Jesse Jenkins of Princeton University who studies electric grid emissions, summarized it quite well. "If you care about climate change, then that's a problem."

THE WIND OF WAR

One of the tactics Vladimir Putin has employed in his genocidal war against Ukraine has been to destroy fossil fuel plants, thus depriving civilians of their basic energy needs. What the Ukrainians have now discovered is that wind farms are more difficult to wipe out than stationary plants and are more easily repaired. As a result, plans are in the works to build a 500 megawatt wind farm which can supply power to half a million apartments. Prior to the war, renewable energy accounted for 12% of their electricity. But as one Ukrainian politician noted:

"Such projects have to exist for the independence of our country."

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HOT SPOTS PARTY DEUX

- ☀ **Giving The Planet The Second Degree:** Science and countries around the world agree it is imperative we hold temperature increases to no more than 1.5 degrees Celsius. But the latest report from the Intergovernmental Panel On Climate Change noted the following: Existing and planned fossil fuel development alone will push the increases to two degrees. And the \$600 billion being spent on clean energy must increase threefold to have a chance to meet the 1.5 degree goal. *(New York Times, 3/21/23)*
- ☀ **The Best Laid Pipelines Of Mice And Men:** As if to back up the above report's worst fears, oil and gas projects over the next two years will generate over 70 gigatons of CO₂ emissions during their lifespan. This is equal to thirty times the total U.S. emissions in all of 2021. *(New York Times, 4/7/23)*
- ☀ **Hare's Looking At You, Kid:** Unfortunately, the mountain hare in Scotland is looking at you increasingly without the benefit of its needed snow camouflage. Because of climate change, the hare has lost an additional 35 days of camouflage resulting in a 7 to 14% increased likelihood of being killed by a predator. It is the only hare or rabbit native to the United Kingdom. *(National Geographic, 3/23)*
- ☀ **Once Burned. Lesson Learned:** That's the conclusion of a study published in Nature Communications. They found that 31% of the Earth's land surface has experienced severe climate impacts and, as a result, these countries are better prepared for future climate crises. On the other hand, countries that have escaped thus far with little resources — countries like Afghanistan, Guatemala and Papua, New Guinea, will be unprepared when extreme climate events hit. *(New York Times, 4/26/23)*
- ☀ **If You Shop At Walmart, Charge It:** Walmart announced plans to install fast charging stations for electric vehicles at their 5,000+ stores by 2030. Each store will have in place four charging stations. Collectively, all Walmart stores are within 10 miles of 90% of the population of the United States. *(New York Times, 4/7/23)*
- ☀ **An Idea To Float Your Boat:** It is popular in Asia where land is at a premium and is now being embraced in the United States. Floating solar panels attached to rafts have the dual advantage of not competing with agricultural land and are more efficient because the water keeps the solar panels cool. *(The News Review, 5/11/23)*
- ☀ **The Way Of All Flash:** A study which appeared in the journal Science found that flash droughts, the kind that arrive quickly and can lay waste to crops

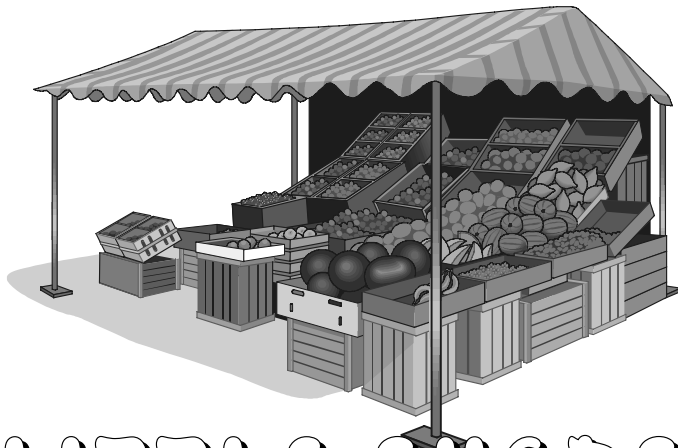
- in a matter of weeks, are becoming more common and faster due to climate change. Even for slow droughts, the onset is coming on quicker. As a result, it is more difficult to forecast them early enough so communities have time to cope with them. *(New York Times, 4/17/23)*
- ☀ **Hello Mudder. It Goes Farther:** Architects in the West African Nation of Burkina Faso are championing traditional mud homes over concrete. As grueling heat from climate change has taken its toll, these homes offer more protection than concrete. It also helps fight climate change since concrete accounts for 8% of all climate pollution. Ironically, it is extreme torrential rains from climate change that make these mud homes less resilient than concrete. *(National Geographic, February, 2023)*
- ☀ **Ewe Can't Go Wrong With This Ram:** An electric Ram pickup truck was on display at the New York International Auto Show. Not only can it go 500 miles on a single charge, but it can tow 14,000 pounds and carry 2,700 pounds in its bed. Another advantage is it can charge 110 miles in ten minutes. Obviously, where there's a wool, there's a way. *(The News Review, 4/6/23)*



CHARGING STATIONS FOR RURAL AREAS SIGN ON DOTTED LINE

The Oregon Department of Transportation (ODOT) is offering rebates for public and multi-family charging stations. With 32% of Oregonians living in rural areas, they own only 12% of all electric vehicles in the State. Accessibility is essential to increasing EV ownership here. So here is what ODOT is offering:

- ⚡ For multi-family complexes: Level 1 chargers: \$5,550 per port or 75% of the cost, whichever is less. — Minimum of two, maximum of eight.
 - ⚡ Businesses, non-profits and governmental entities: Level 2 chargers: \$4,250 per port.
- The first round gives priority to 70% for rural and disadvantaged communities. For more information: email: odotchargingrebates@forthmobility.org



LITTLE SHOPS OF FARMERS

You won't find Audrey 2 here but the local produce is not nearly as threatening. Our local Farmers Markets include:

Melrose Farmers Market
Fridays, 4PM to 7PM
305 Melrose Road

Umpqua Valley Farmers Market
Saturdays, 9AM to 1PM
First United Methodist Church
1771 West Harvard, Roseburg

Lookingglass Farmers Market
Thursdays, 2:30PM to 5:30PM
7426 Lookingglass Road

Sutherlin Farmers Market
Thursdays, 2PM to 6PM
Tractors Supply Parking Lot
328 Dakota Street

Myrtle Creek Farmers Market
Saturdays, 10AM to 2PM
Elks Lodge Parking Lot
106 South Main Street

Canyonville Farmers Market
Wednesdays, 9:30AM to 1:30 PM
Seven Feathers Casino Resort
Parking Lot
146 Chief Miwaleta Lane

The Cabbage Patch

by Scott McKain

I found myself in Sherm's Market recently. My job is basket pusher, maintaining freedom of navigation in the aisles. I am trailing my multitasking wife, reading labels, thinking about preparation and choosing foods that will give us a tasty and nutritious diet.

The health scale is good tool to apply here. The formula is $HEALTH = NUTRITION / CALORIES$. On a scale of one to one hundred, green vegetables would be 100 and sugar would be zero. White flour and white rice would be close to zero. A new food label would be helpful here. Anything below 10 on the scale would be labeled "JK" That stands for junk. Everything else is in between.

We should look for food high on the health scale with the lowest price. That would put us mostly in the produce and bulk foods sections. But when we choose processed, packaged and ready-to-eat foods it is going to be high in cost and low on the health scale. Convenience has it's cost.

Growing food will always have inputs and will have carbon emissions. If we apply a food's carbon emissions to our health scale then that would adjust their rank up or down. Beef, with it's extremely high carbon emissions due to land and feed use, may fall to junk status.

Ultimately the solution has been there all along. It will not be affected by store prices. It will produce in all seasons. There was a time when it was essential to all households around the world. It's the cabbage patch.



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

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PERMIT 134

RETURN SERVICE REQUESTED

COMING THIS FALL!
THE GREEN AND SOLAR TOUR IS BACK
DATE AND PLACES TBA

WITH THE COOLING TREND 'LA NIÑA' GOING AWAY SOON
TO BE REPLACED BY THE CYCLICAL WARMING TREND OF 'EL NIÑO,'
WE KNOW CLIMATE CHANGE MULTIPLIES THE HEAT IMPACT. SO TO THE TUNE OF 'LA BAMBA,'
LA LA LA LA NIÑA.
NOW THAT WE HAVE SEEN YA
YOU'RE GOING AWAY.
YOU CANNOT STAY.
HERE'S HOW WE PAY.
EL NIÑO. EL NIÑO.
CLIMATE CHANGE AND YOU WILL GROW.
MAKING MORE HEAT WAVES.

FLOODS AND DROUGHTS WILL FIND A WAY.
NO NEED TO SAY GRACIAS.
THE CLIMATE WILL PARCH US.
STOP FOSSIL FUELS WITHOUT DELAY.,
BEGIN TODAY OR I MUST SAY:
CYCLONE BOMBA. MORE UPON YA.
DENIERS CON YA.
THEN WE'LL BE GONE YA.

I UNDERSTAND CLIMATE CHANGE HAS A MULTIPLIER EFFECT.
HERE'S MY DONATION TO MULTIPLY OUR CHANCES TO FIGHT CLIMATE CHANGE:
\$18 _____ \$25 _____ \$50 _____ OTHER _____

YOUR SONG PARODIES ARE BAD ENOUGH. BUT YOUR SPANISH IS MUCHO OBNOXIOUS.
IT MAKES ME WANT TO LEAVE IN A HURRY WITH A CRINGE. PLEASE STOP.
HERE'S \$100 IF YOU DO. WHAT'S NEXT? HEBREW?

Send your tax deductible check payable to:
OEC, 143 SE Lane Avenue, Roseburg, OR 97470. Thank you.

Name: _____

Address: _____

Phone: _____

____ I want to volunteer