Editor’s Note

This presentation was created in Sept 2024

Contact Adrian Gallo for any questions or further updates to this content

Climate & energy world moves fast, this material will be out of date soon enough

agallo@idahoconservation.org



Looking back & planning ahead: The road to a clean energy future

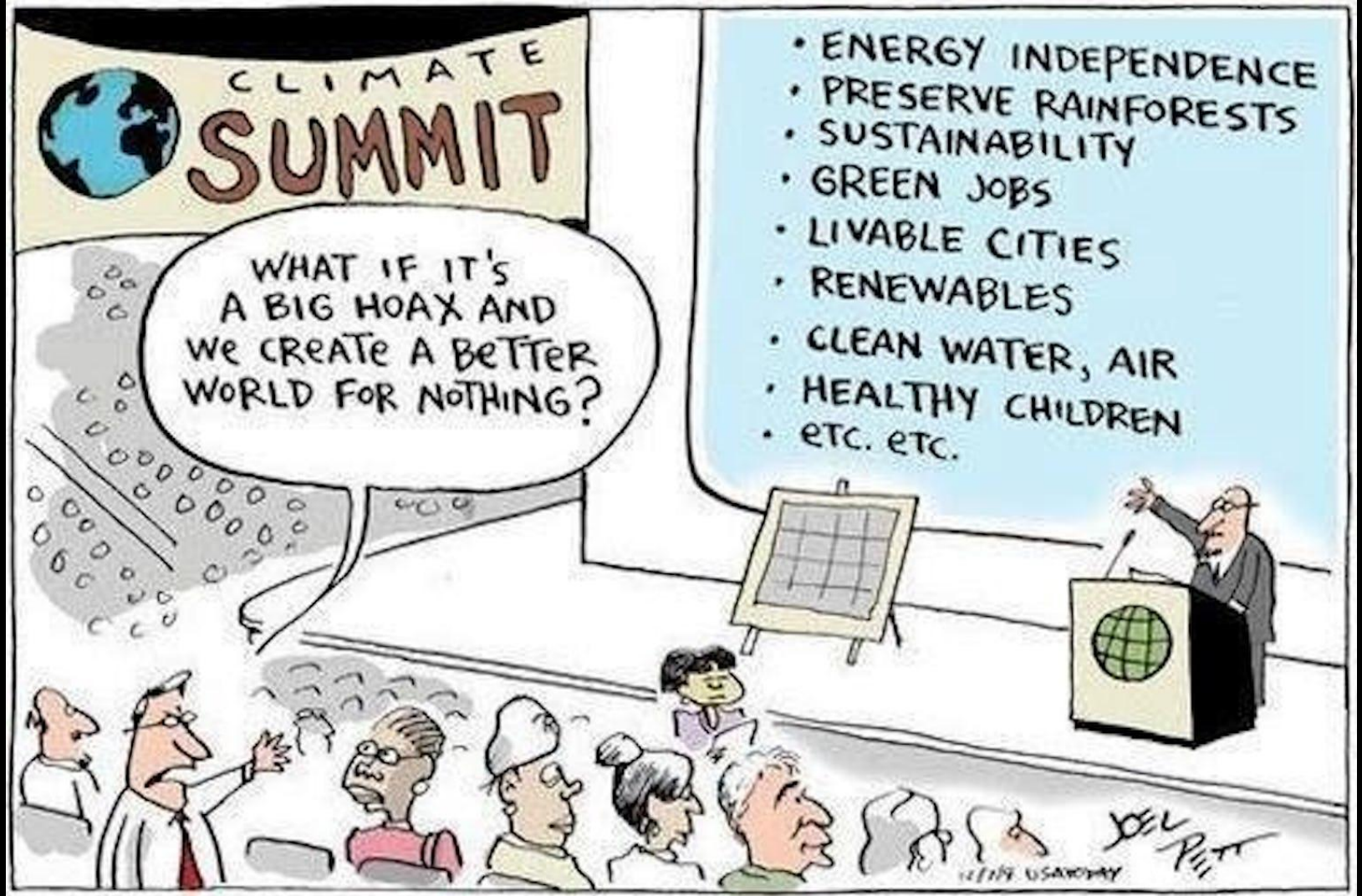
Adrian Gallo, Ph.D.

Climate Program Manager

agallo@idahoconservation.org

50 YEARS!

IDAHO CONSERVATION LEAGUE


CLIMATE
SUMMIT
WHAT IF IT'S A BIG HOAX AND WE CREATE A BETTER WORLD FOR NOTHING?
• ENERGY INDEPENDENCE
• PRESERVE RAINFORESTS
• SUSTAINABILITY
• GREEN JOBS
• LIVABLE CITIES
• RENEWABLES
• CLEAN WATER, AIR
• HEALTHY CHILDREN
• ETC. ETC.
JOEL PETT

1973-ish


IDAHO
CONSERVATION
LEAGUE
Jude Hawkes
Patsy Batchelder
Janet O'Crowley

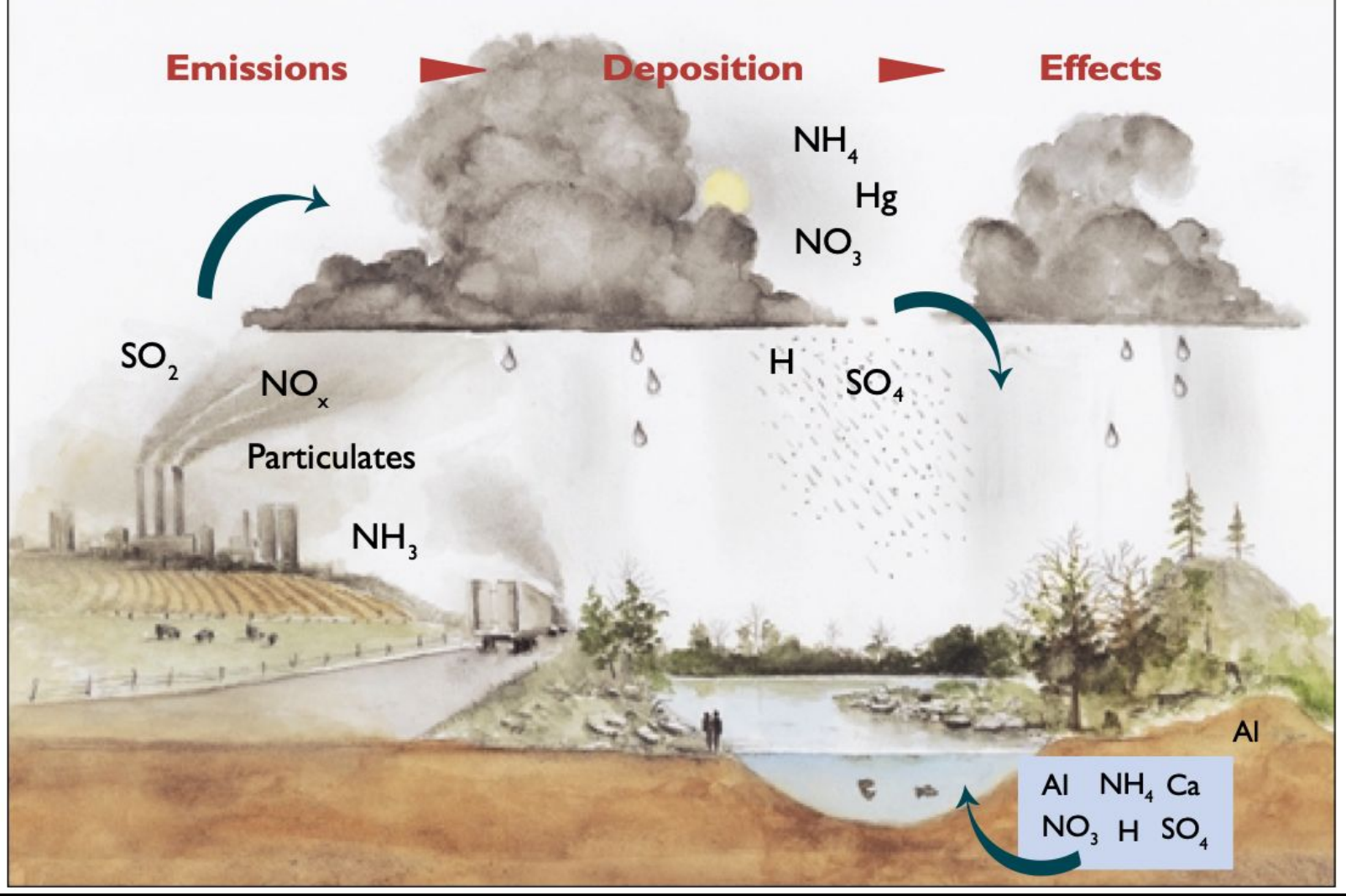
1970





Harper's Weekly

WALLACE, IDAHO, IN 1892


Emissions
Deposition
Effects
NH_4
Hg
NO_3
SO_2
NO_x
Particulates
NH_3
H
SO_4
Al
Al NH_4 Ca
NO_3 H SO_4

1987

"All the News That's Fit to Print"

The New York Times

Late Edition
New York: Today, humid, a few showers. High 75-80. Tonight, thunderstorms possible. Low 62-68. Tomorrow, occasional rain. High 70-75. Yesterday: High 81, low 64. Details on page D34.

VOL. CXXXVI... No. 47,265 Copyright © 1987 The New York Times NEW YORK, THURSDAY, SEPTEMBER 17, 1987

50 cents beyond 75 miles from New York City, except on Long Island. 30 CENTS

Legislator Charged in 564 Counts In New York Payroll Abuse Case

Senate Democrats' Chief Denies Stealing Funds to Finance Campaigns

By ELIZABETH KOLBERT

In an indictment unsealed yesterday in Manhattan, the minority leader of the New York State Senate, Manfred Ohrenstein, is charged with conspiring with two other Democratic politicians to steal hundreds of thousands of dollars from the state to finance election campaigns.

Faced with 564 counts of conspiracy, grand larceny and related charges, the Senator, who appeared weary and shaken, pleaded not guilty in State Supreme Court in Manhattan.

In an interview later in the day, Mr. Ohrenstein, his voice breaking with emotion, said: "What I feel is that ultimately I will be exonerated. I really feel that way."

Recent Shift in Power

Charged in the conspiracy with Mr. Ohrenstein, a Manhattan Democrat, were State Senator Howard E. Babbush, a Brooklyn Democrat, and Frank Sanzillo, a top staff aide to Mr. Ohrenstein. They, too, pleaded not guilty.

The indictment, in the view of many politicians, illustrates a relatively recent shift in political power from traditional county organizations to legislative leaders in Albany. [Page B6.]

Last spring, when news reports first said his office was under investigation, Mr. Ohrenstein belittled allegations of legislative payroll abuse by saying that campaign work by employees was common in Albany.



The New York Times/Chester Higgins Jr.

State Senator Manfred Ohrenstein, trench coat over handcuffs, leaving after booking yesterday.

But in recent months he has refused to comment on the subject. Law-enforcement officials say they expect Mr. Ohrenstein to argue in his defense that he was unaware of many of the instances specified in the indictment.

Many other legislators have denied that such practices were condoned.

Continued on Page B6, Column 1

DOZENS OF NATIONS REACH AGREEMENT TO PROTECT OZONE

24 Sign and Others Back Pact to Reduce Chemicals That Damage Earth's Shield

By PHILIP SHABECOFF
Special to The New York Times

MONTREAL, Sept. 16 — Hailing a milestone in international cooperation to safeguard the environment, delegates from rich and poor nations approved an agreement today intended to protect the earth's fragile ozone shield.

Under the agreement, participating nations will first freeze and later reduce consumption of widely used chemicals that, according to emerging scientific consensus, destroy ozone molecules in the upper atmosphere.

The ozone shields the earth by blocking some ultraviolet radiation from the sun. Any increase in that radiation resulting from a thinning of the ozone layer will cause skin cancer and other harm to humans and damage crops, forests and other natural systems, scientists say.

'Historically Significant'

"This is perhaps the most historically significant international environmental agreement," said Deputy Assistant Secretary of State Richard E. Benedick, the chief United States negotiator here.

"For the first time the international community has initiated controls on production of an economically valuable commodity before there was tangible



Associated Press

Senator Arlen Specter

"You have written that the Court doesn't have a legitimacy in using the First Amendment to interfere with what a state has done."

Judge Robert H. Bork

"I have never said that the Court [could not] interfere. . . . The state may say we're regulating pornography, but it may be regulating things that the . . . Court does not think are pornography."



The New York Times/Jose R. Lopez

Senator Dennis DeConcini

"You leave this Senator unsatisfied as to how we . . . can conclude that you're going to protect the citizens of this country in interpreting the Constitution as it relates to sex."

"In the gender cases that I have decided as a Court of Appeals judge, I have decided more of them in favor of the female claim than I have the other way."

Associated Press



BORK BACKS AWAY FROM HIS STANCES ON RIGHTS ISSUES

SAYS HE IS NO EXTREMIST

Nominee's Disavowals Bring Skepticism From Some on Senate Judiciary Panel

By STUART TAYLOR Jr.
Special to The New York Times

WASHINGTON, Sept. 16 — Judge Robert H. Bork backed away today from positions he has taken on key aspects of free speech and women's rights as he insisted he is not the extremist portrayed by opponents of his confirmation to the Supreme Court.

On the second day of his confirmation hearings, the nominee asked members of the Senate Judiciary Committee to judge him not by what he called his "speculative" writings as a law professor, but by his behavior as a practicing lawyer and Solicitor General and in his current job as a Federal appellate judge.

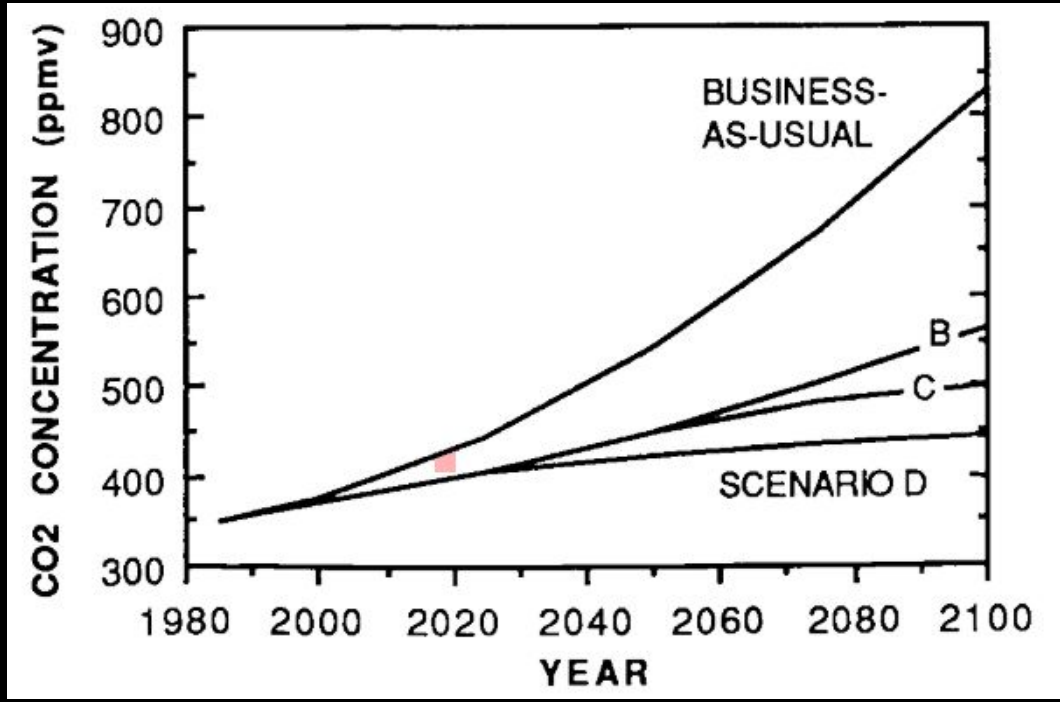
In those roles, he said, "I have not been extreme in any way." [Excerpts, pages B10 and B11.]

3 Senators Express Skepticism

The comment came in response to questions from Senator Howell Heflin, an Alabama Democrat who is one of the crucial uncommitted Senators on the committee. Judge Bork also said there are "a few other things I have grown out of," a reference to legal views he has abandoned.

1990


CLIMATE CHANGE
The IPCC Scientific Assessment
WORLD METEOROLOGICAL ORGANIZATION / UNITED NATIONS ENVIRONMENT PROGRAMME
INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE


CO2 CONCENTRATION (ppmv)
900
800
700
600
500
400
300
1980
2000
2020
2040
2060
2080
2100
YEAR
BUSINESS-AS-USUAL
B
C
SCENARIO D

Me ~1995



Jim Bridger Coal Plant, WY



Me 2018



2020



1



2

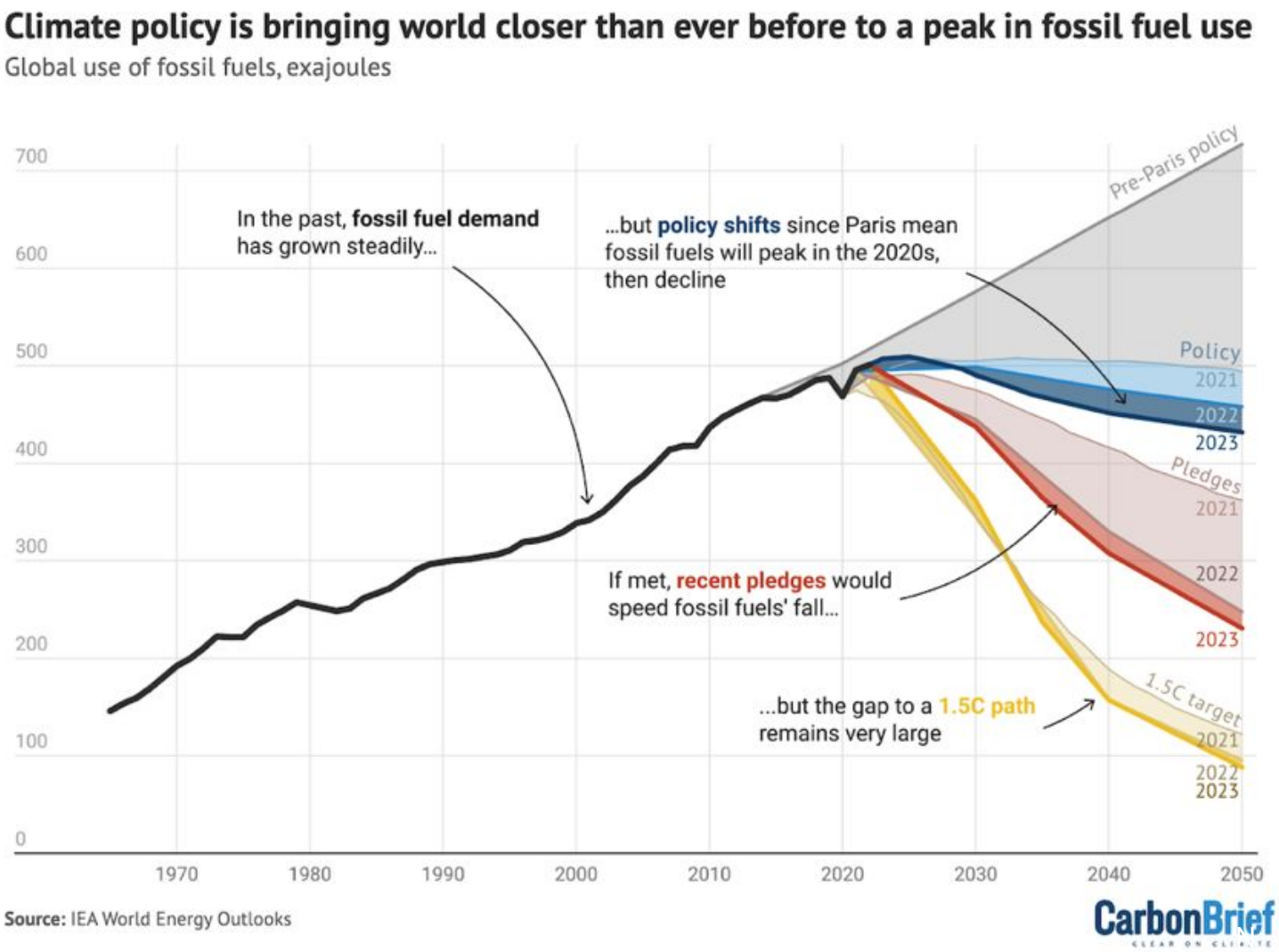


3



4





Worldwide

Carbon dioxide emissions peaks in 2025 (2yrs earlier than expected)

Oil demand set to peak in 2030's

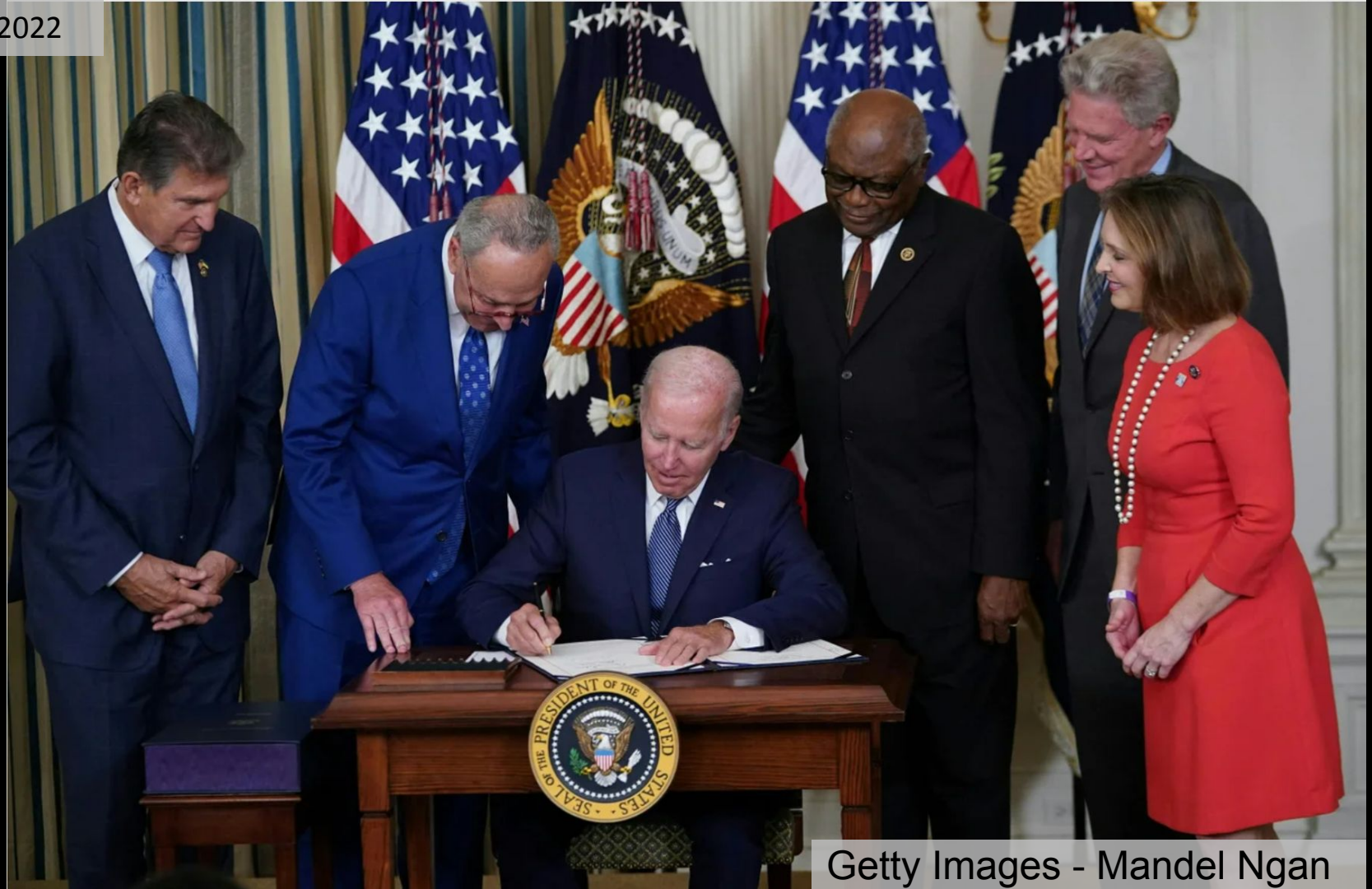
China's emissions peaked in 2023 & stayed flat in 2024

Solar projections continue to be revised because of faster adoption than prediction

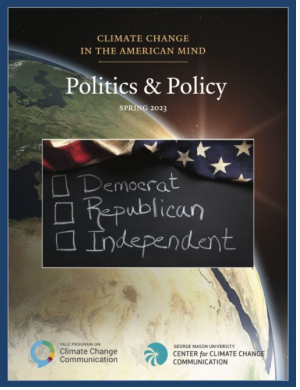
United States

New methane rules are stronger than ever & the social cost of carbon is finally being implemented

Aug 2022



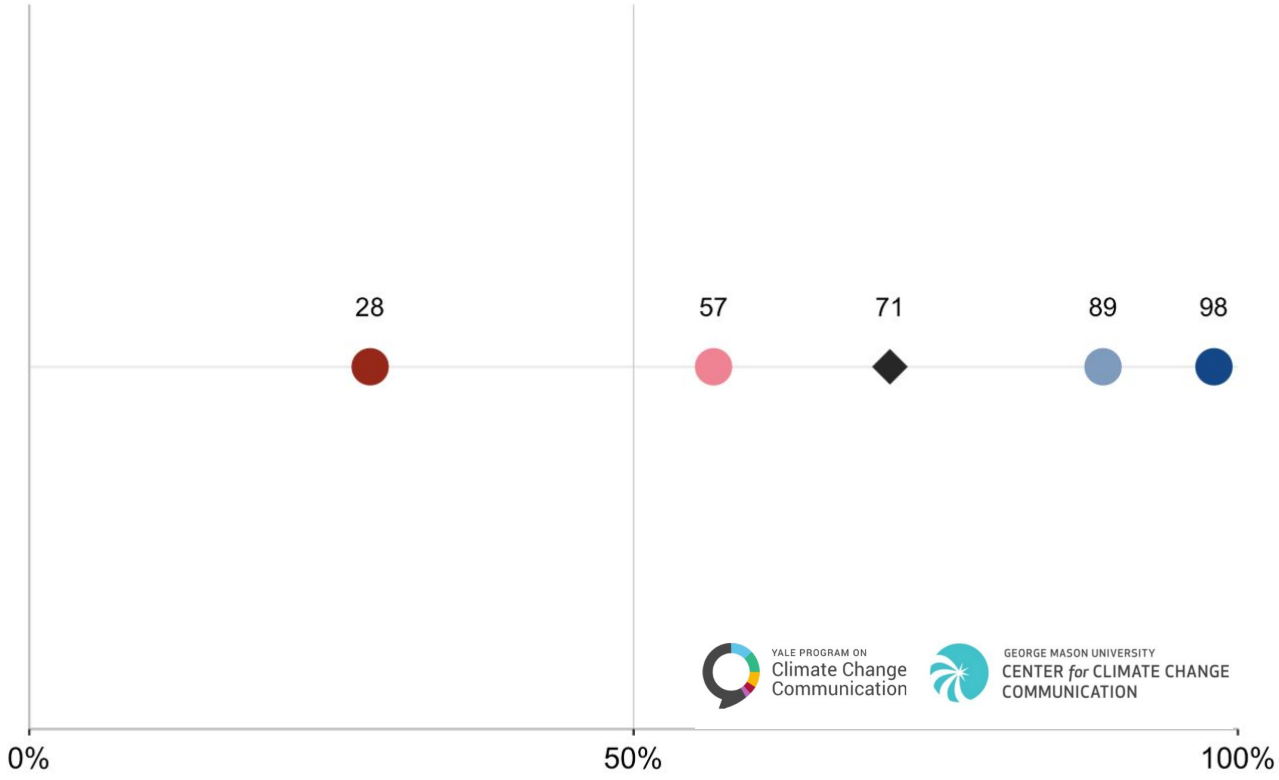
Getty Images - Mandel Ngan

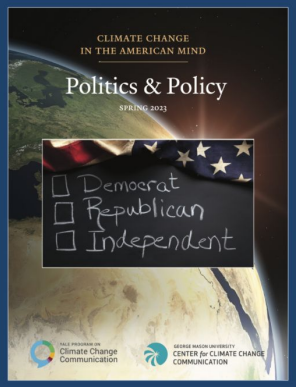


A majority of registered voters support the Inflation Reduction Act of 2022

- % "strongly" or "somewhat" support -

Con R | Lib/Mod R | Mod/Con D | Lib D | All Reg Voters





Large majorities of registered voters support climate-friendly policies for their local community

- % "strongly" or "somewhat" support -

Con R · Lib/Mod R · Mod/Con D · Lib D · All Reg Voters

	Con R	Lib/Mod R	Mod/Con D	All Reg Voters	Lib D
Increasing the availability of public transportation in your county.	71	81	86	89	97
Providing funding to help homeowners make energy-efficiency improvements to their homes (such as replacing old, inefficient furnaces, water heaters, air conditioners, and insulation).	65	83	85	91	98
Constructing bike paths and installing bike lanes on city streets.	64	78	79	79	91

YALE PROGRAM ON Climate Change Communication

GEORGE MASON UNIVERSITY CENTER *for* CLIMATE CHANGE COMMUNICATION

0% 50% 100%

The future of transportation is happening now



Idaho Capital Sun

GOVERNMENT + POLITICS COURTS + POLICING HEALTH ENVIRONMENT GROWTH + AFFORDABILITY LIVING COMMENTARY ELECTION 2024

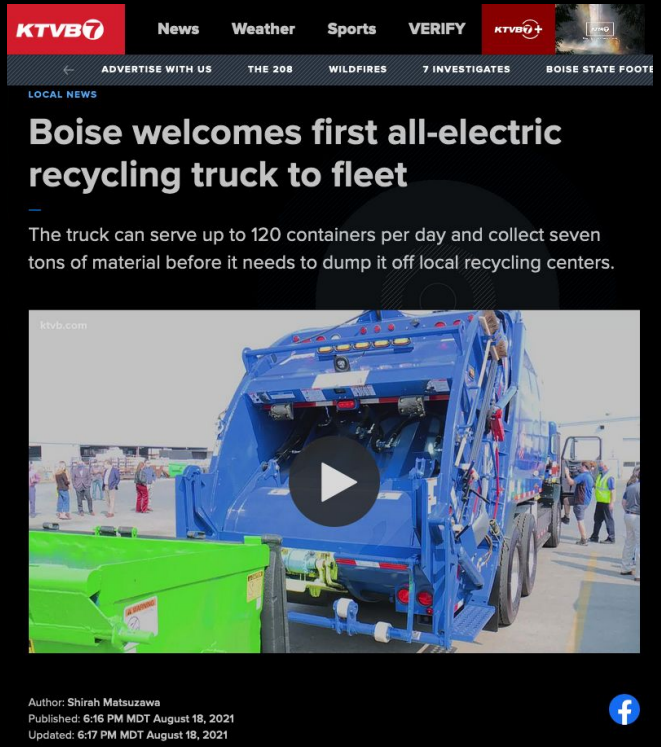
EDUCATION ENVIRONMENT GOVERNMENT + POLITICS

Idaho schools can seek rebates to buy zero-emission electric school buses

McCall-Donnelly, Genesee schools districts receive funding for clean school buses

BY: CLARK CORBIN - OCTOBER 9, 2023 4:30 AM

A bus arrives at Morley Nelson Elementary in Boise on May 6, 2021. Grant funding through the Bipartisan Infrastructure Law is available through an application process for school districts to purchase electric school busses for their fleets. The 2023 clean school bus rebate application period is open through Jan. 31, according to the United States Environmental Protection Agency's website. (Otto Kitsinger for Idaho Capital Sun Sun)



KTVB7 News Weather Sports VERIFY KTVB7+

ADVERTISE WITH US THE 208 WILDFIRES 7 INVESTIGATES BOISE STATE FOOTE

LOCAL NEWS

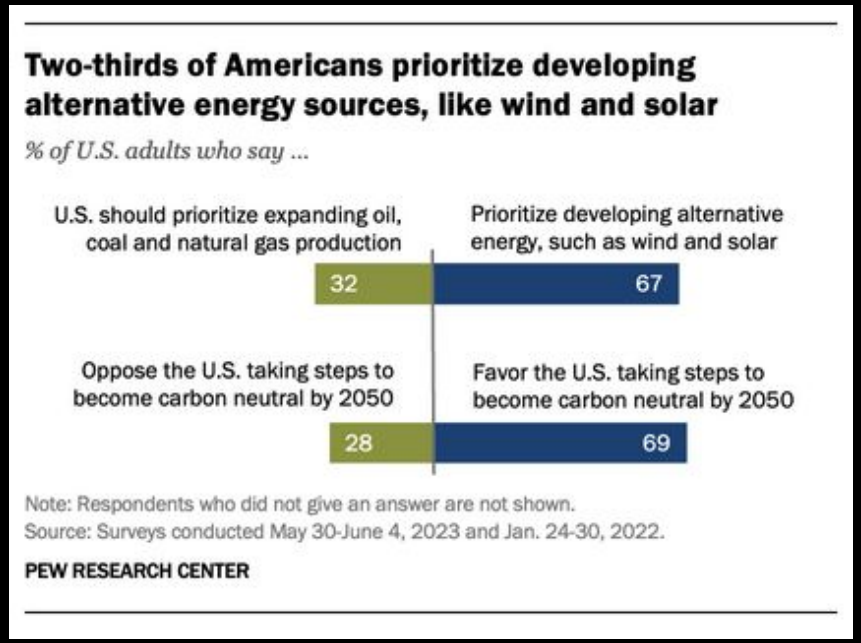
Boise welcomes first all-electric recycling truck to fleet

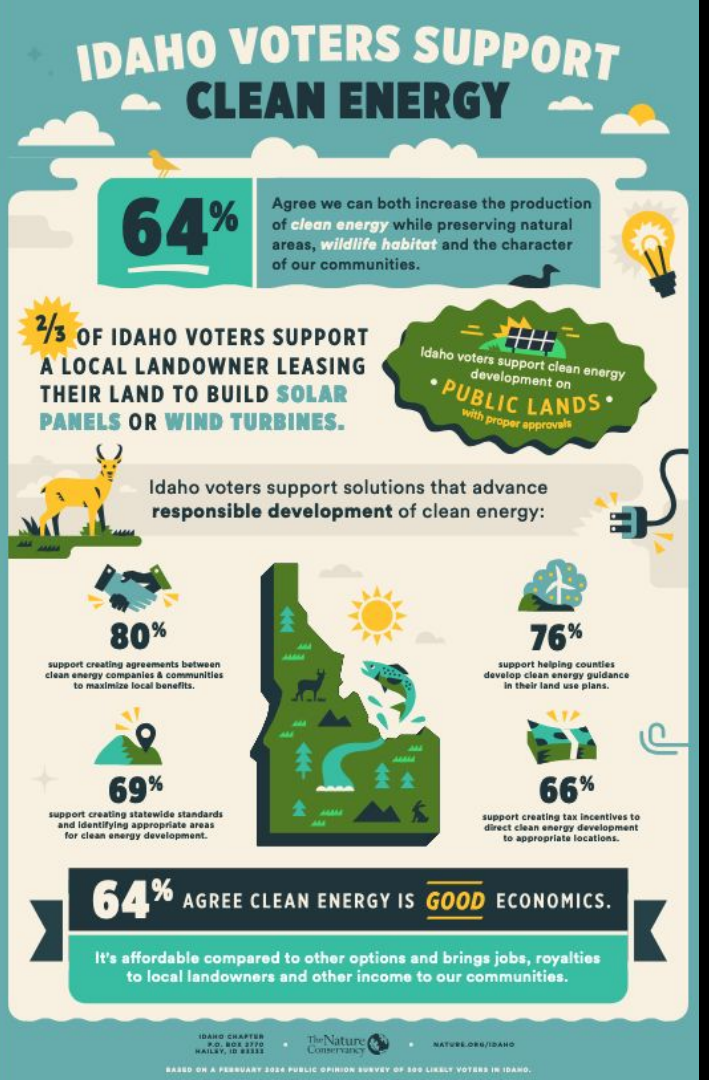
The truck can serve up to 120 containers per day and collect seven tons of material before it needs to dump it off local recycling centers.

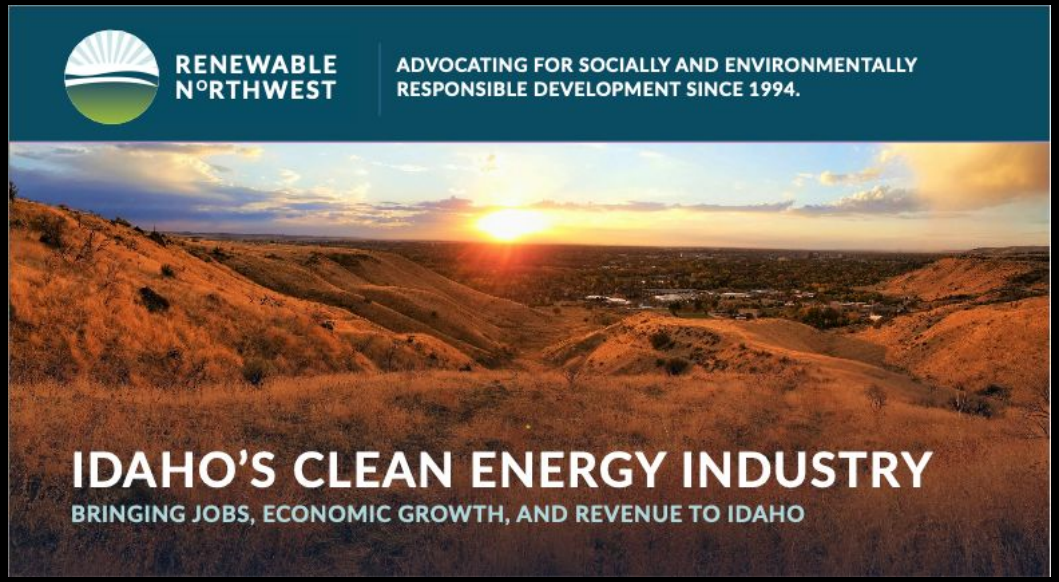
ktvb.com

Author: Shirah Matsuzawa
Published: 6:16 PM MDT August 18, 2021
Updated: 6:17 PM MDT August 18, 2021

National and Local Beliefs

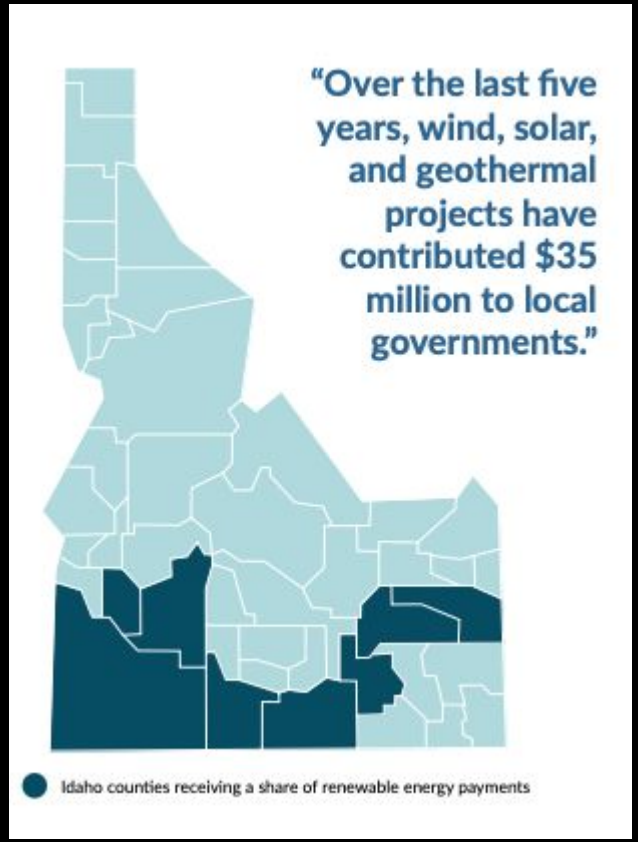






Nationally: solar/wind jobs grew by ~5%, more than double the growth rate economy-wide. Idaho was a leader among all 50 states for overall clean energy job growth.

Idaho: In 2023, solar/wind industries employed over 2,100 people



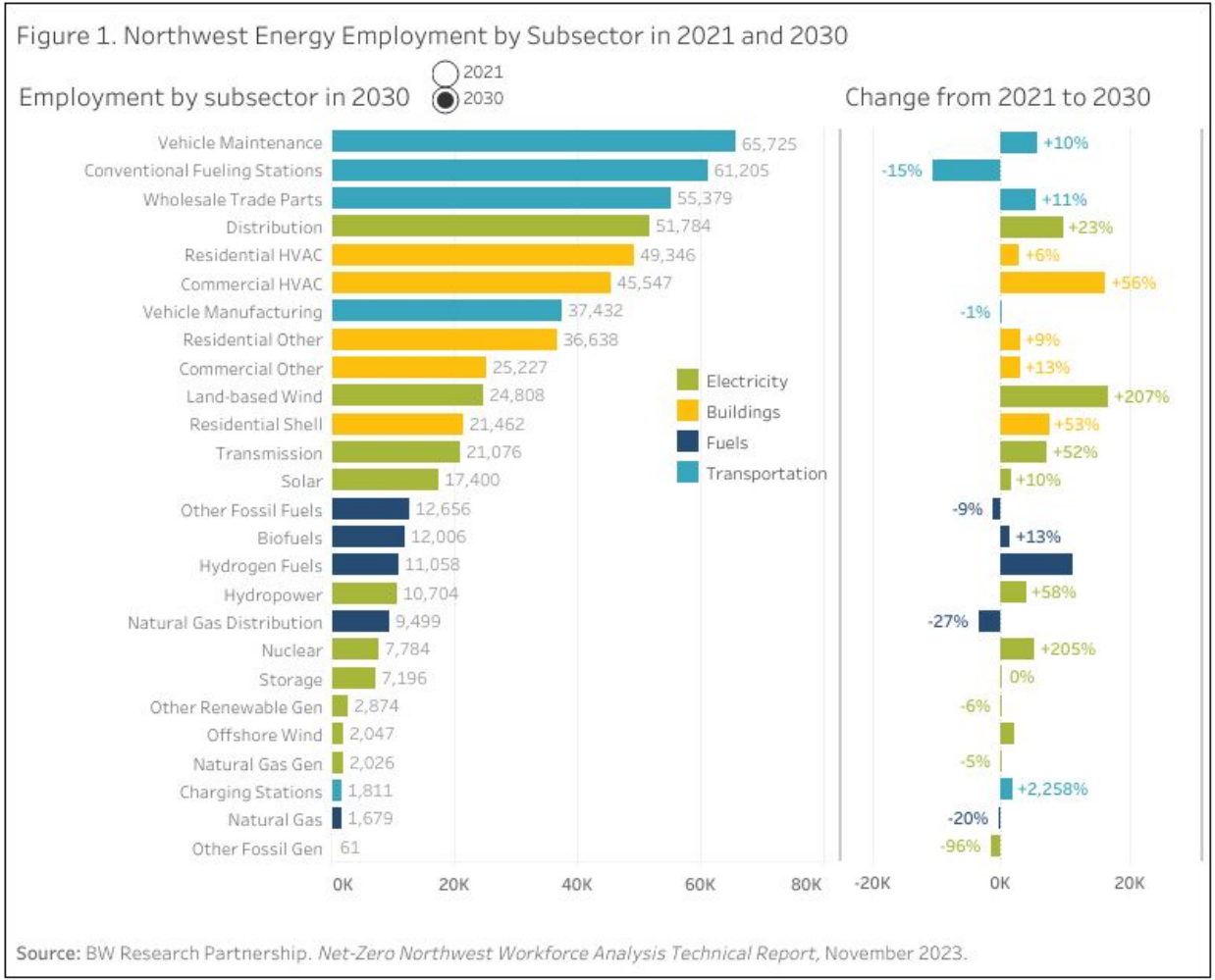
Energy & Climate Jobs

Job Losses

- -3,400 methane gas
- -10,000 gas stations

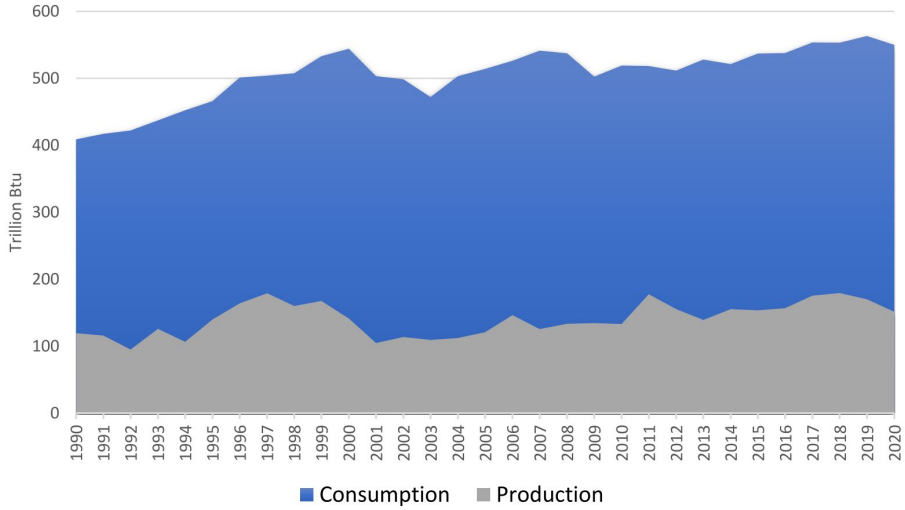
Job Gains

- +10,000 Energy distribution
- +16,000 Wind
- +11,000 Hydrogen
- +19,000 HVAC



Idaho Energy

Figure 11: Idaho Energy Production and Consumption[48]

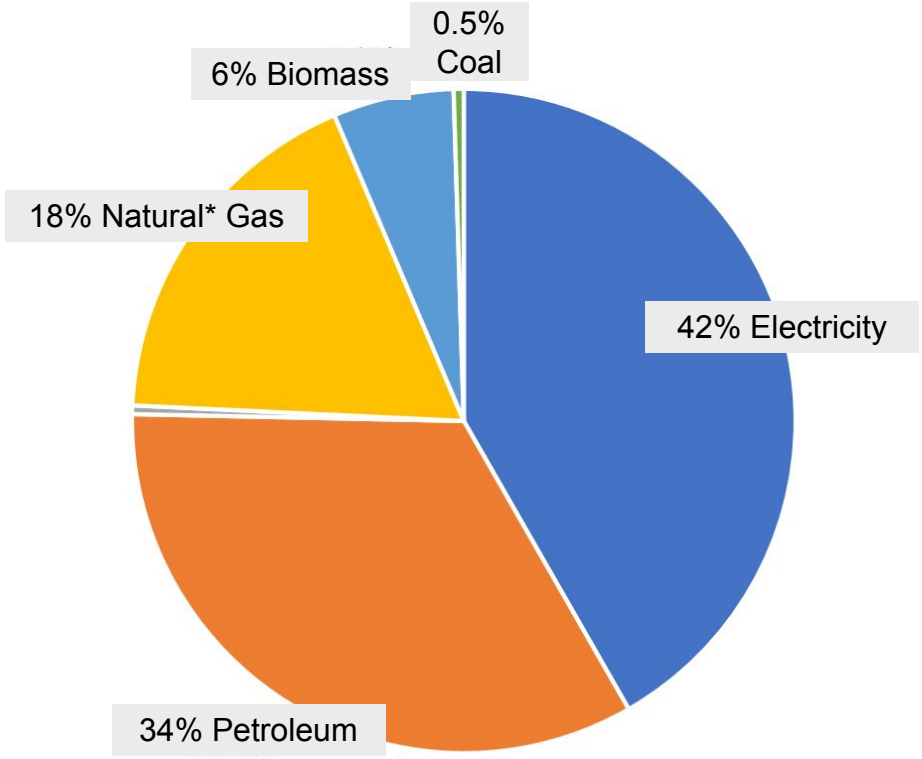


Idaho's Energy Landscape Report, 2023

Idaho only produces ~25% of the total **energy** it consumes.

Energy = gas + diesel + electricity generation

Idaho Energy Consumption



% energy used in 2020

~42% electricity
Less than half from hydropower

~34% petroleum based
(all imported gasoline & diesel)

~18% natural gas
(mostly imported)

Petroleum + ***natural* gas*** *to shift to electricity consumption in a decarbonized world*

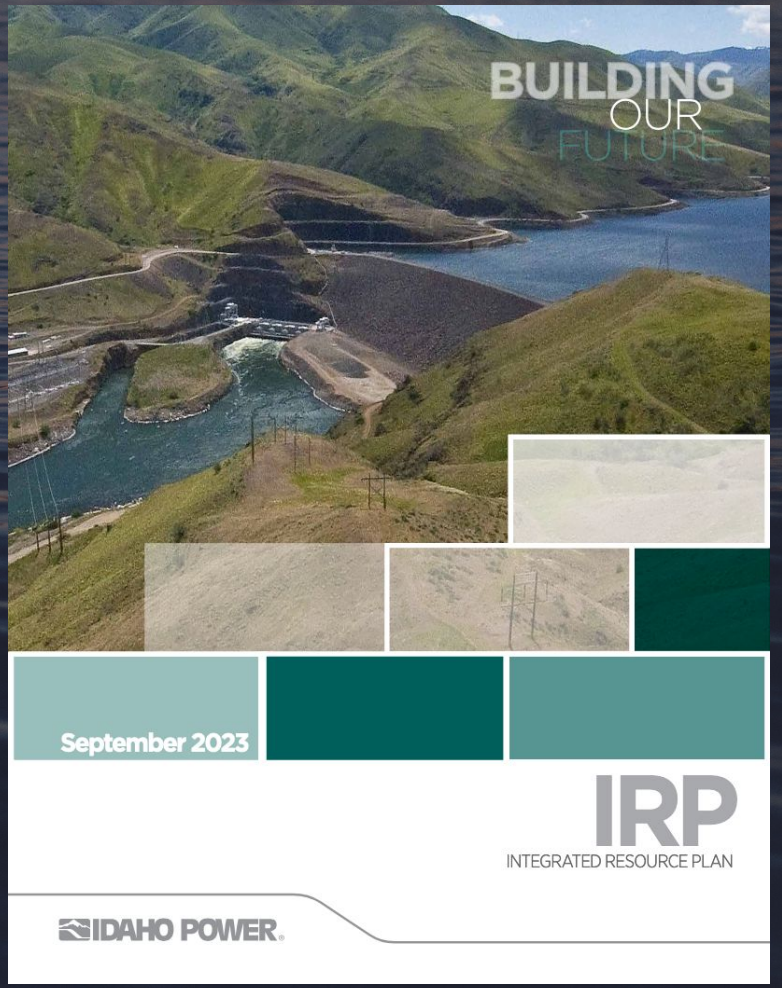
Clean energy = Cheap energy

Levelized Cost of Energy ($/MWh)

- $235 Biomass
- $215 Peaking gas plant

- $140 Small modular nuclear reactor*
- $110 Batteries (8-hr)

- $90 Baseload gas plant
- **$53 Wind from Idaho**
- **$35 Wind from Wyoming**
- **$31 Utility Scale Solar**



IDAHO CONSERVATION LEAGUE

Our Climate & Energy Work

- Closing down coal plants
- Making electric vehicles a reality
- Maintaining affordable electricity costs
- Preventing new fossil fuel infrastructure
- Proactive renewable energy siting to protect sensitive lands



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50 YEARS!

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Bonus Slides