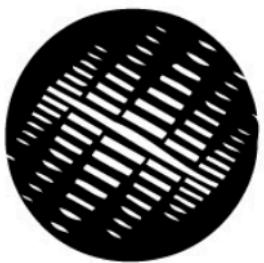


States are leading the charge for 100% clean energy

Larry Shirley
Chairman

Interstate Renewable Energy Council
[@irecusa](https://twitter.com/irecusa)



IREC



IREC is about...



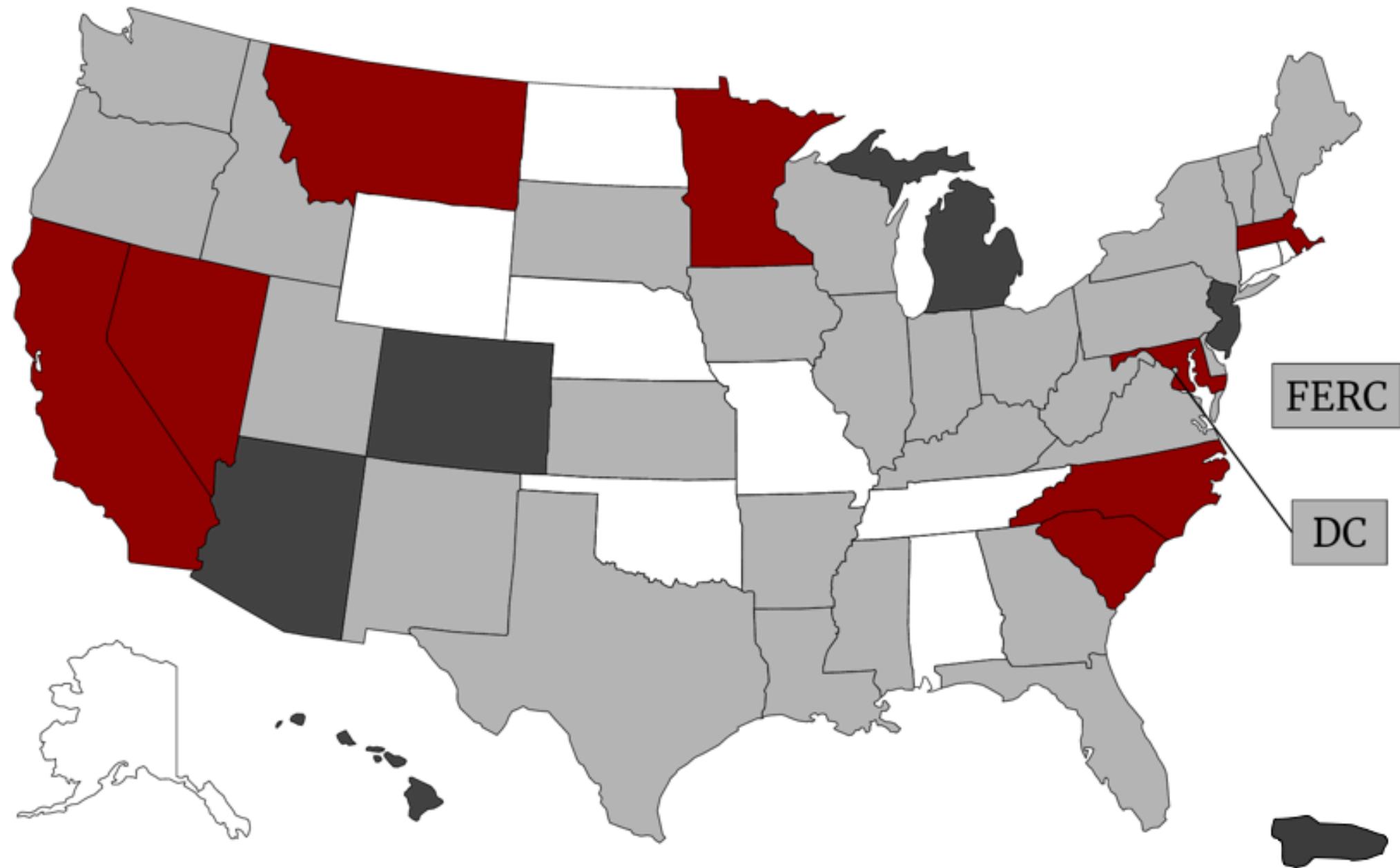
Regulatory
Reform



Quality
Workforce



Consumer
Empowerment



■ ACTIVE INTERVENOR

■ TECHNICAL SUPPORT

■ PAST ENGAGEMENT

Job-Focused Training for Allied Industries



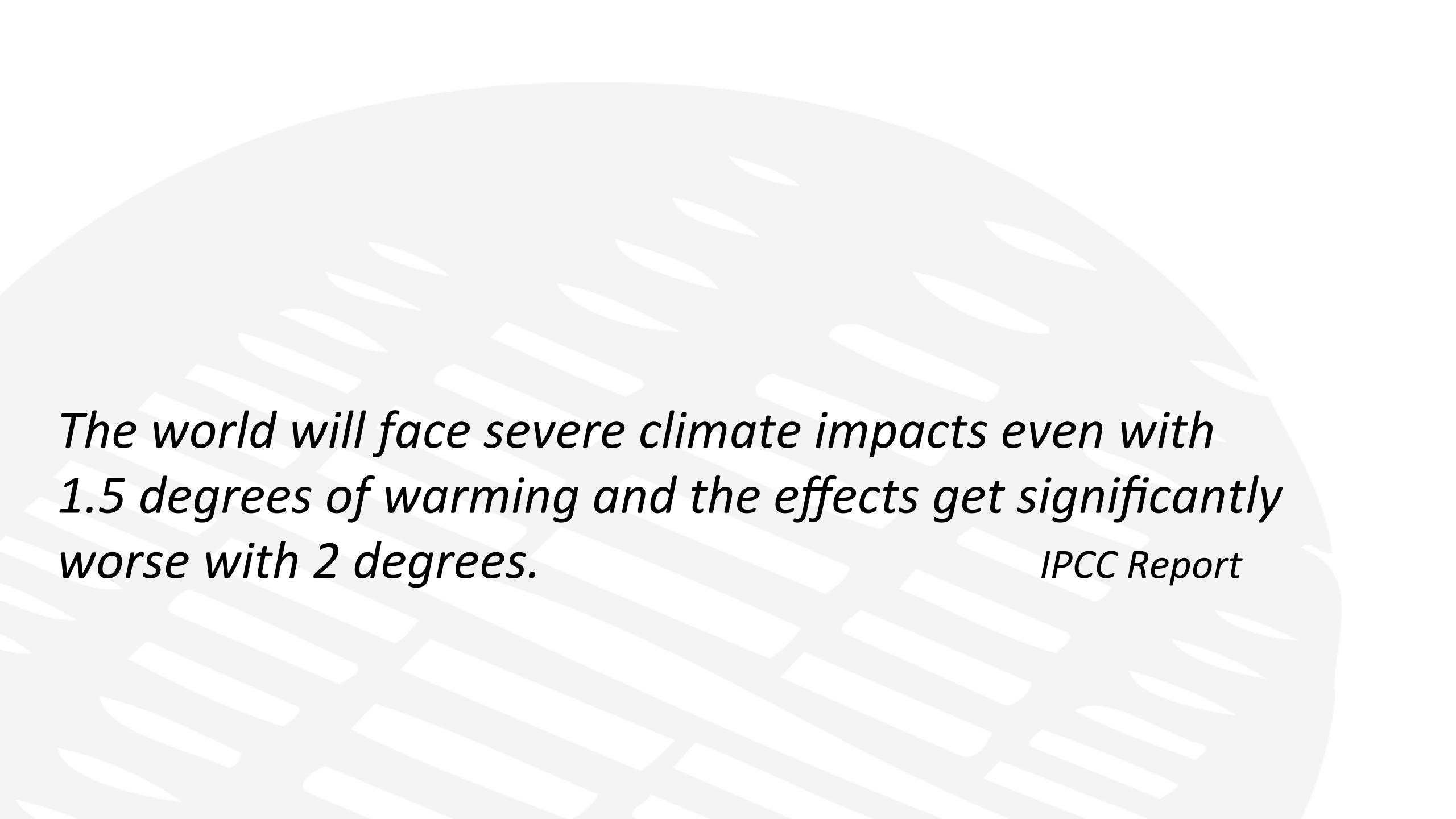
Firefighters



Code Officials



Apt. Maintenance Techs



*The world will face severe climate impacts even with
1.5 degrees of warming and the effects get significantly
worse with 2 degrees.*

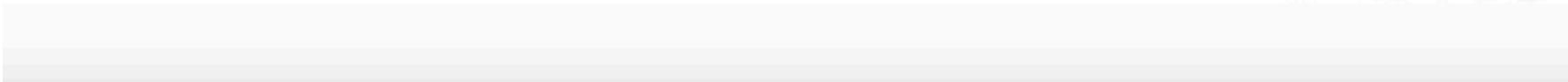
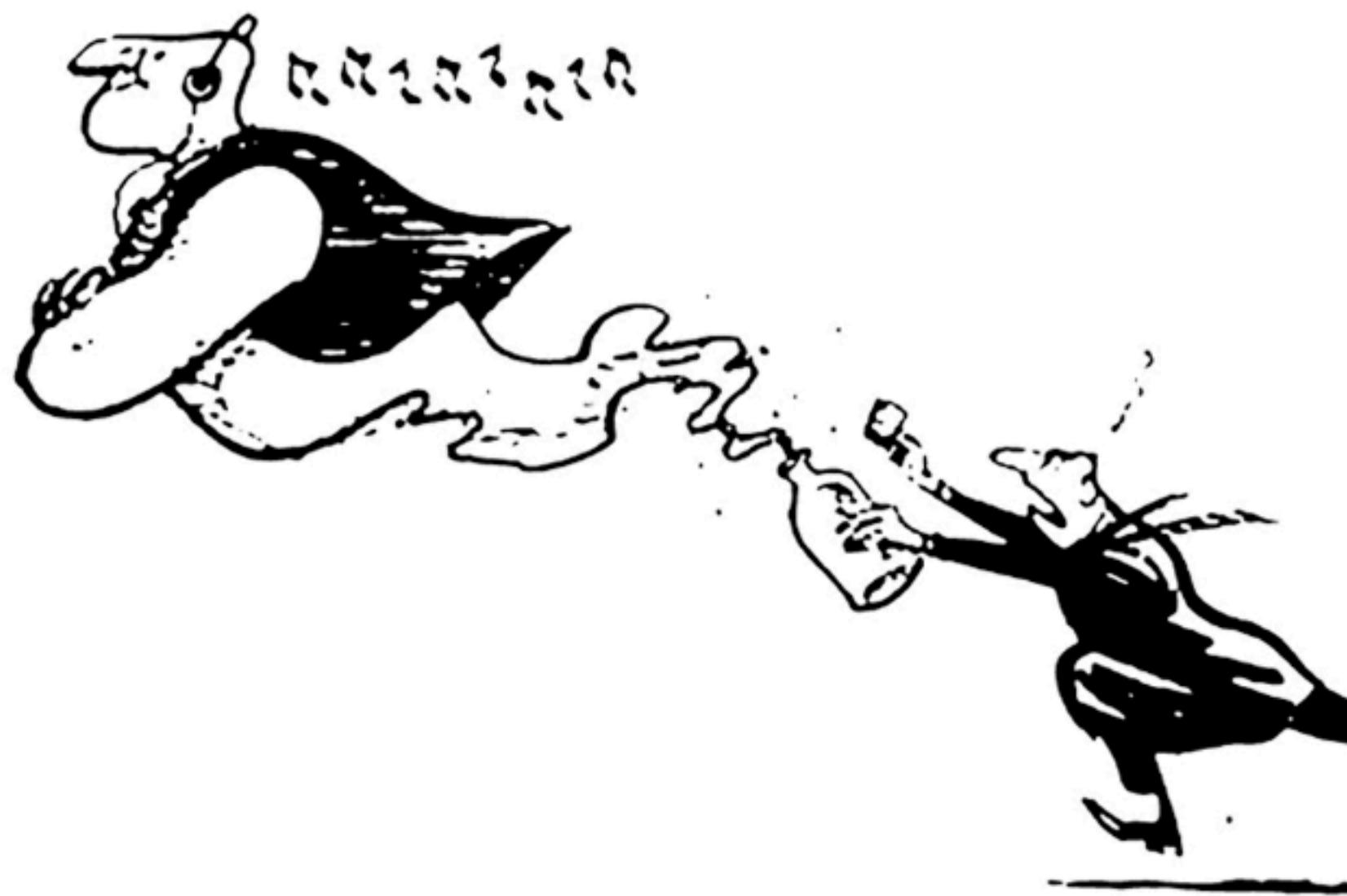
IPCC Report

Is there political will...



Our Challenge

- Reach 50% clean energy by 2030
- Carbon neutrality by 2050
- Attain 100% of electricity from clean energy by 2050
- Convert transportation fleets, buildings and industries to clean energy



Solar

More than 13 GW of solar is expected to be installed in 2019.

67 GW now installed with deployment doubling by 2024.

Q1 2019 prices were at their lowest levels in history, despite the impact of tariffs.



Wind

98 GW installed in U.S. with 7.6 GW added in 2018

224 GW predicted in U.S. by 2030

More than 56,000 wind turbines operate across 43 states and US territories

\$12 billion in new investment in 2018



Storage

Deployment up in Q1 2019
by 232% from Q1 2018

Deployments expected to
surpass 4.5 GW by 2024

CA #1 in residential & non-
residential market growth

Globally, 40 GW to be
installed annually by 2022



The Role of States

- Enact mandatory carbon reduction and clean energy standards
- Enact 100% Renewable Energy Standards by 2050 with milestone of 50% by 2030
- Enact Energy Efficiency Standards of 2-3% increases annually
- Adopt 2025 goal of 22% of new vehicles being Zero Emission
- Put a price on carbon

A photograph of a group of ducks walking across a sandy beach. They are moving from left to right, casting long shadows to the right. The duck in the lead is facing away from the camera, showing its dark back and white wing patch. The other ducks are slightly smaller and appear to be following the leader's path.

Follow the leaders...



100% RPS by 2045



100% RPS by 2032



75% RPS by 2032



100% Clean Energy by 2045

100% Clean Energy by 2045



**50% RPS by 2025 / 60% by 2030/
100% Clean Energy by 2045**



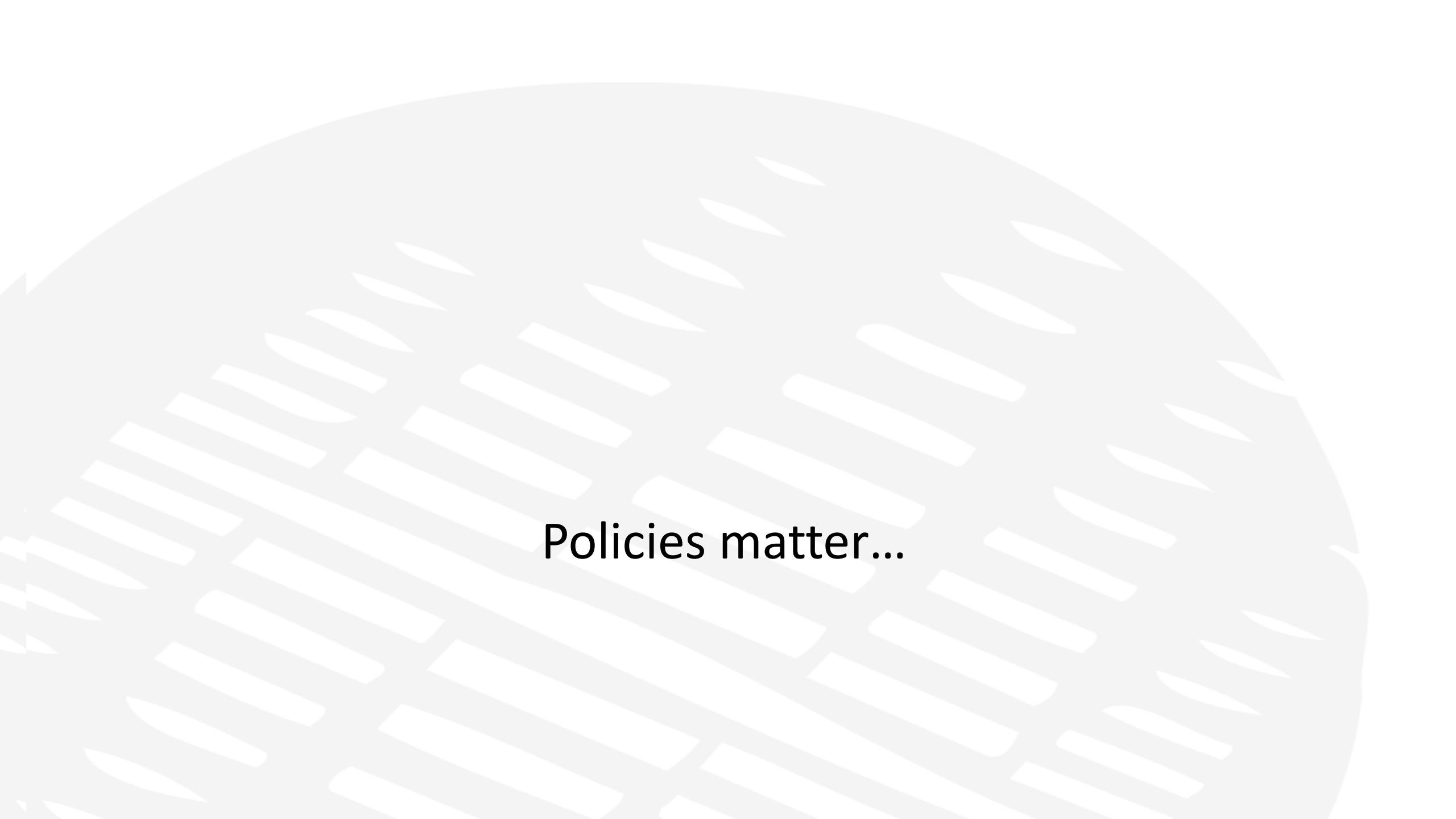
**70% RPS by 2030/100% zero carbon
by 2040/100% Clean Energy by '50**



100% RPS by 2050



**50% RPS by 2030 /
100% Clean Energy by 2050**



Policies matter...



Efficiency

Adopt and enforce more stringent mandatory building codes

Enact Energy Efficiency Resource Standard (2-3%/yr.)

Adopt utility on-bill financing & incentives

Training: building code officials, appraisers, realtors, facility managers

Mandate reductions in state and university buildings



Solar

Renewable Standards with solar set-aside for DG

Favorable tariffs and terms in PPAs

Financial incentives: tax credits, rebates, performance payments

Property/sales tax exemptions

DG Solar: Interconnection, community solar, net metering, 3rd party sales



Wind

Renewable Standard with set-aside for offshore wind

Favorable permitting, regulations, and interconnection procedures

Higher tariffs for offshore wind

Advanced T&D Planning





Storage

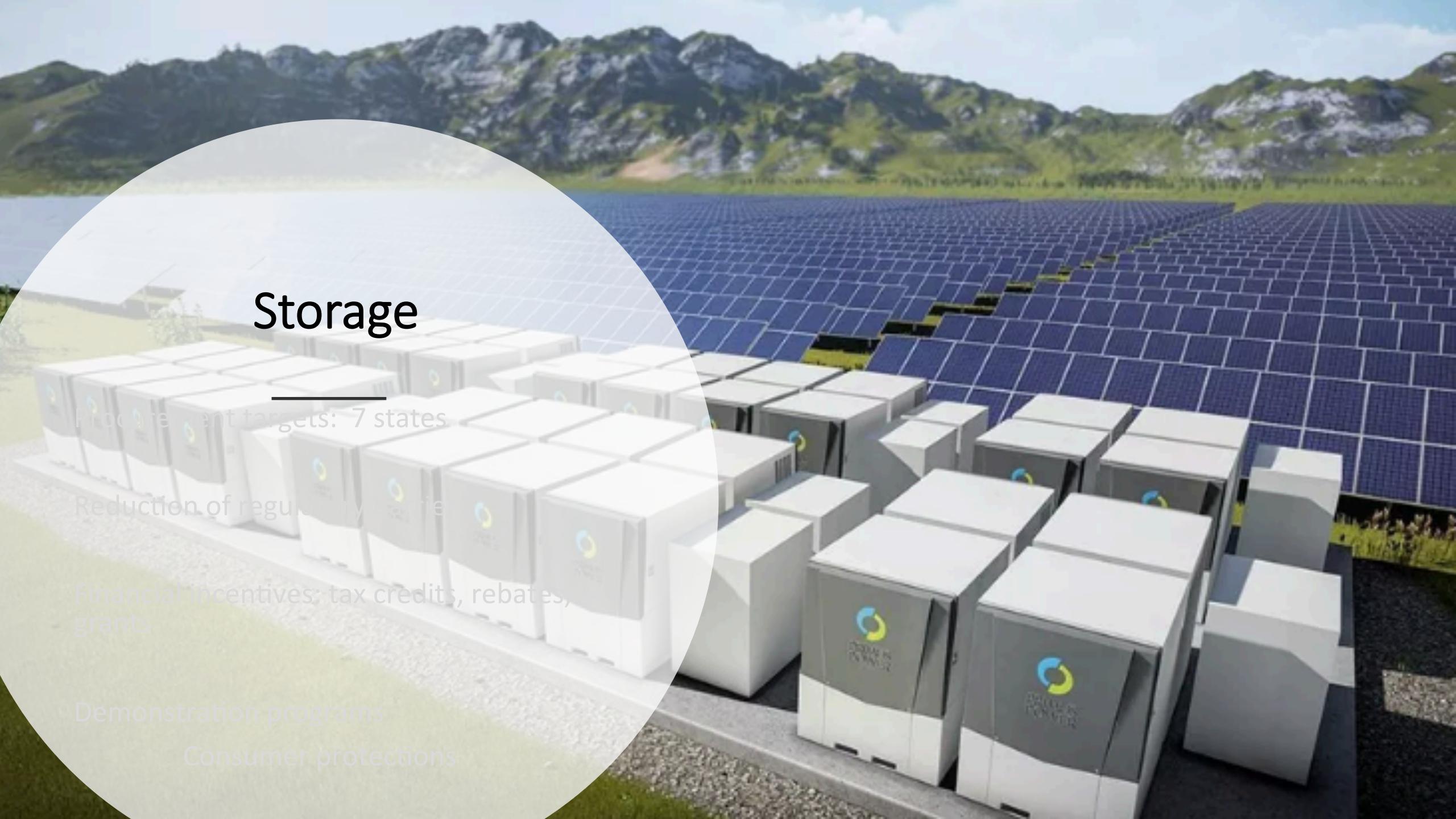
Proven targets: 7 states

Reduction of regulatory barriers

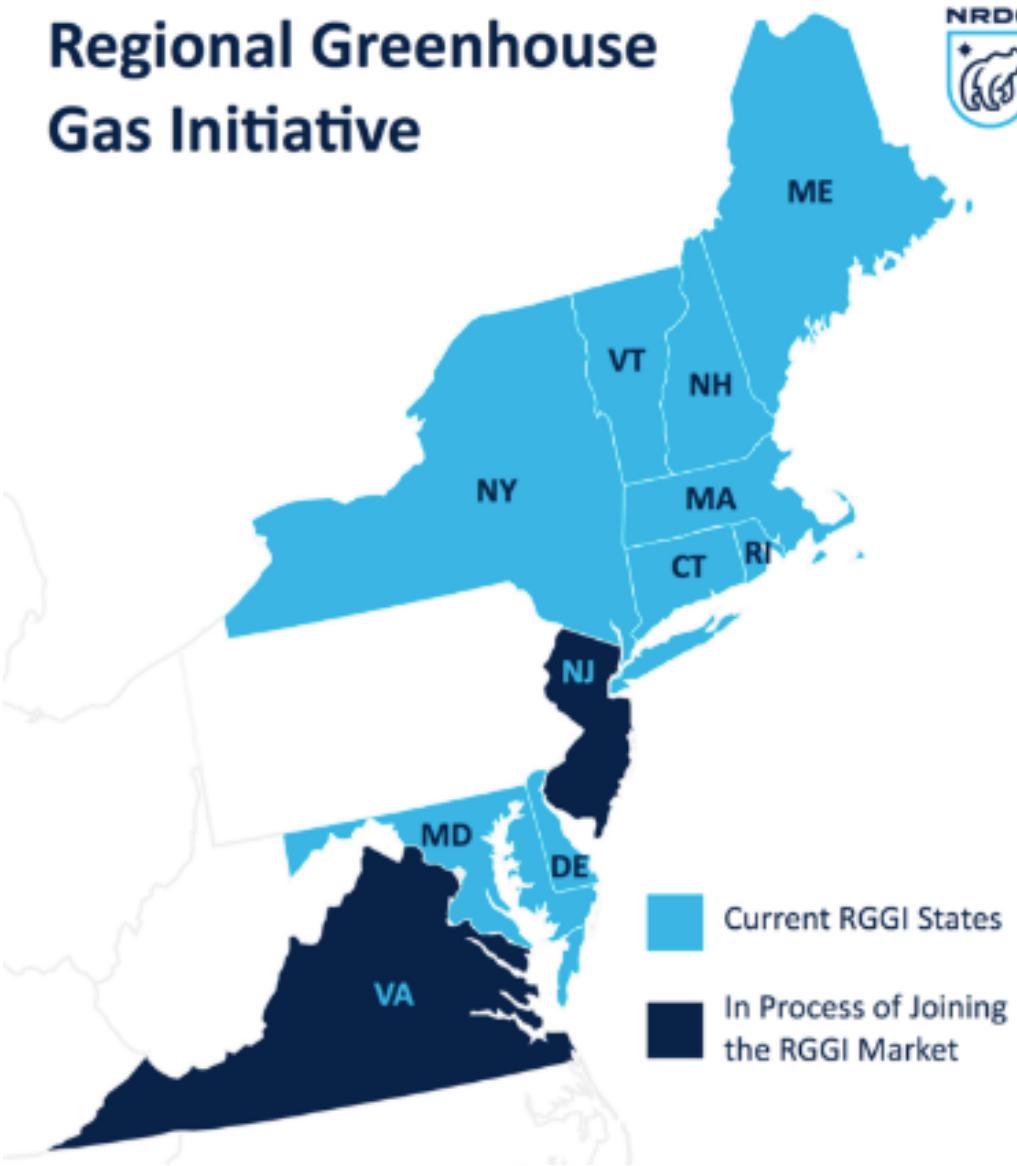
Financial incentives: tax credits, rebates, grants

Demonstration programs

Consumer protections



Regional Greenhouse Gas Initiative



Carbon pricing: the key driver



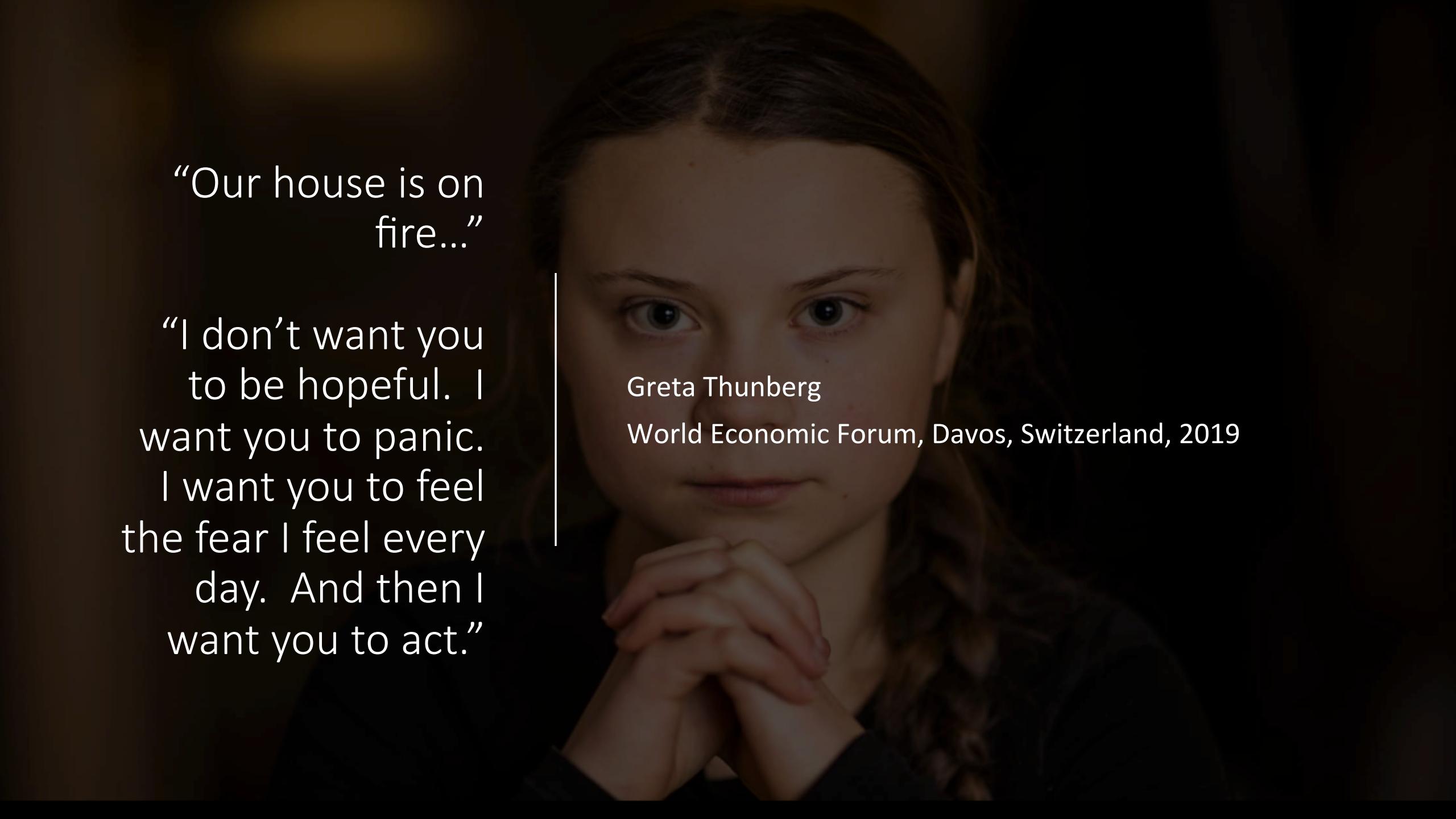


-
- Ensure your ASES state chapter is actively engaged in policy
 - Support other nonprofit & trade organizations
 - Provide research supporting 100% & milestone policy goals
 - Comment on PUC dockets, policy proposals, legislation
 - Write op-eds & go social
 - Encourage students to be active in youth climate action



**SKOLSTREJK
FÖR
KLIMATET**





“Our house is on fire...”

“I don’t want you to be hopeful. I want you to panic. I want you to feel the fear I feel every day. And then I want you to act.”

Greta Thunberg

World Economic Forum, Davos, Switzerland, 2019



IREC
VISION SUMMIT
ENERGY TRANSFORMATION FOR ALL

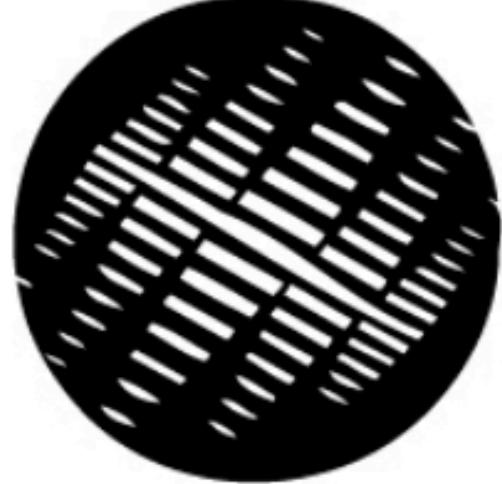
March 11 | Washington, DC

SAVE *the* **DATE**

Download Vision Summit Principles

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