

A group of riders on horses galloping along a beach. The riders are wearing helmets and dark clothing. The horses are brown and are running on the wet sand. The background shows the ocean and a clear sky.

States are leading the charge for 100% clean energy

Larry Shirley
Chairman
Interstate Renewable Energy Council
@irecusa



IREC is about...



Regulatory
Reform



Quality
Workforce



Consumer
Empowerment

Job-Focused Training for Allied Industries



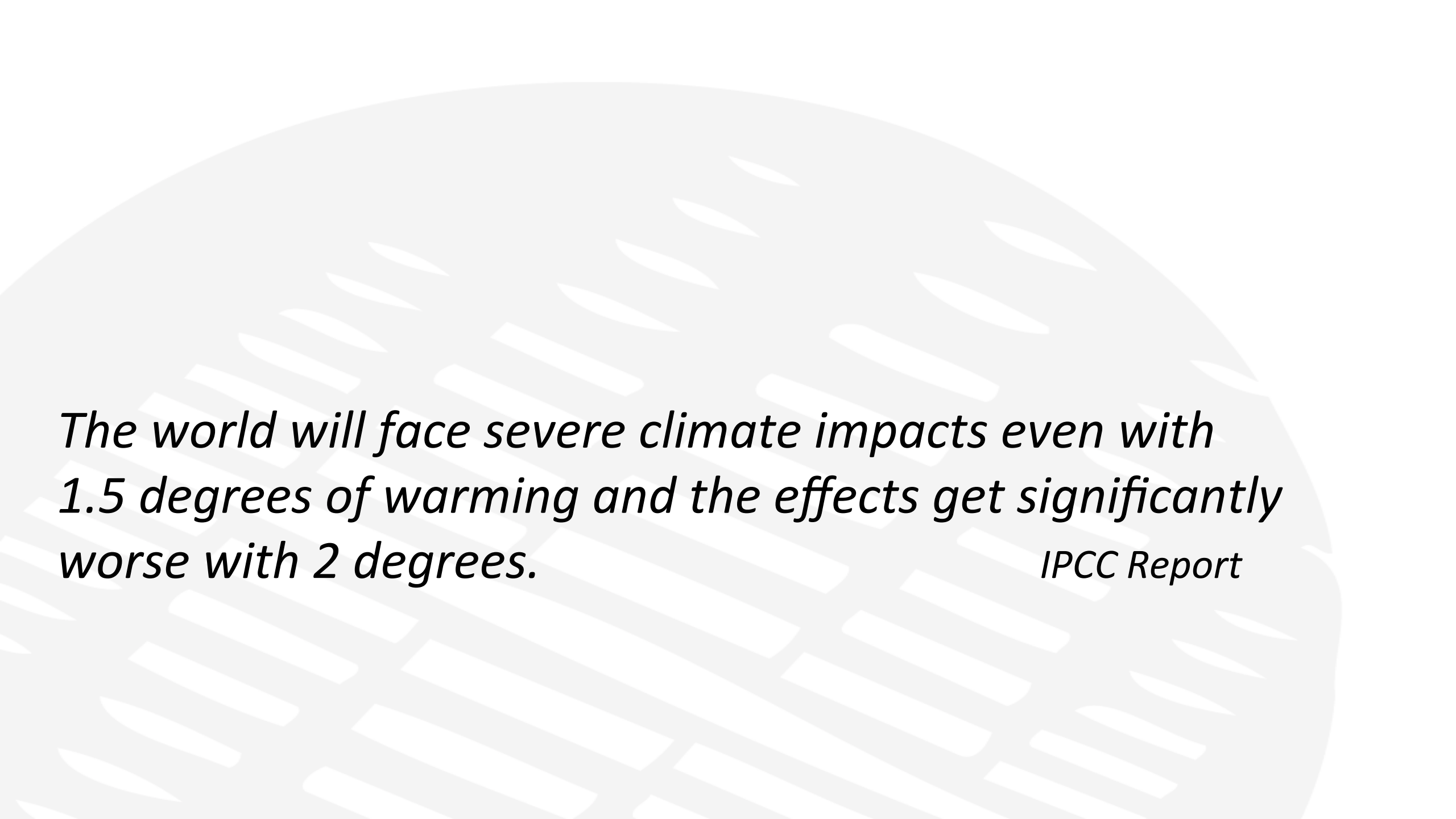
Firefighters



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.

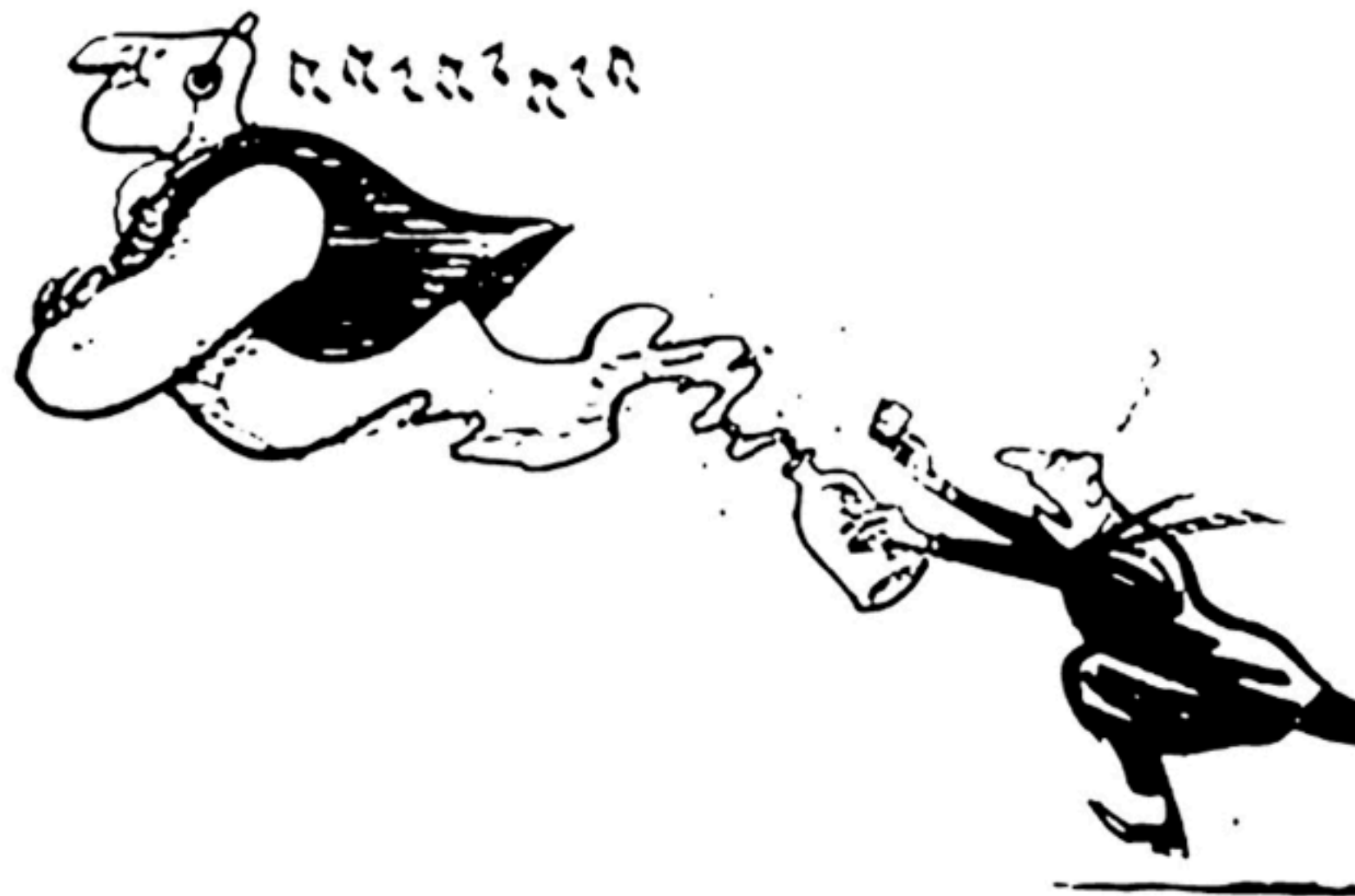
IPCC Report

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

Follow the leaders...







100% Clean Energy by 2045



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



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



100% RPS by 2050



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



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



A large-scale photograph of an offshore wind farm. Numerous white wind turbines with three-bladed rotors are spaced out across a deep blue sea. In the background, a distant shoreline with some buildings and greenery is visible under a clear blue sky with a few wispy clouds. A semi-transparent light blue circle is overlaid on the left side of the image, containing text.

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

Procurement targets: 7 states

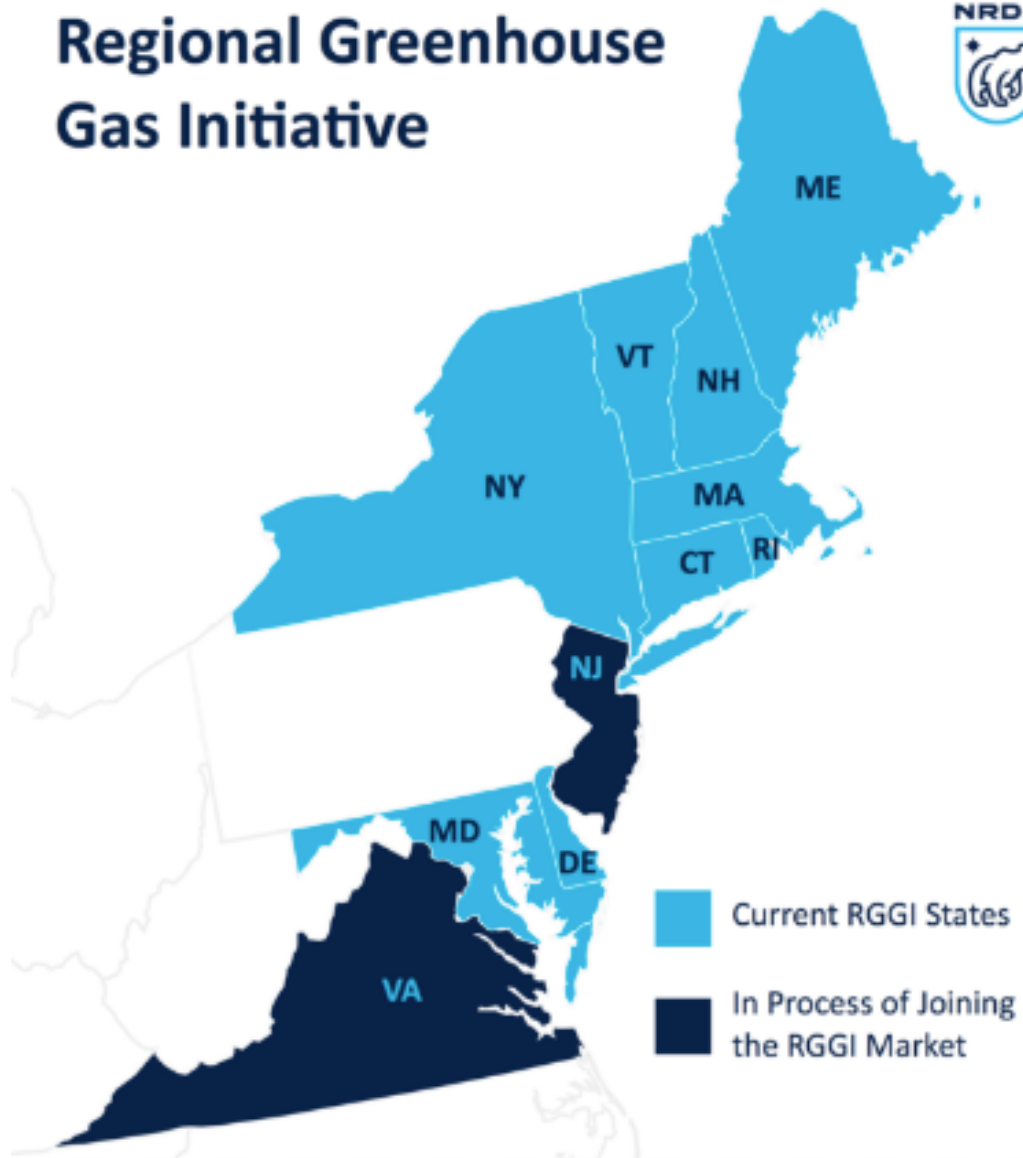
Reduction of regulatory barriers

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

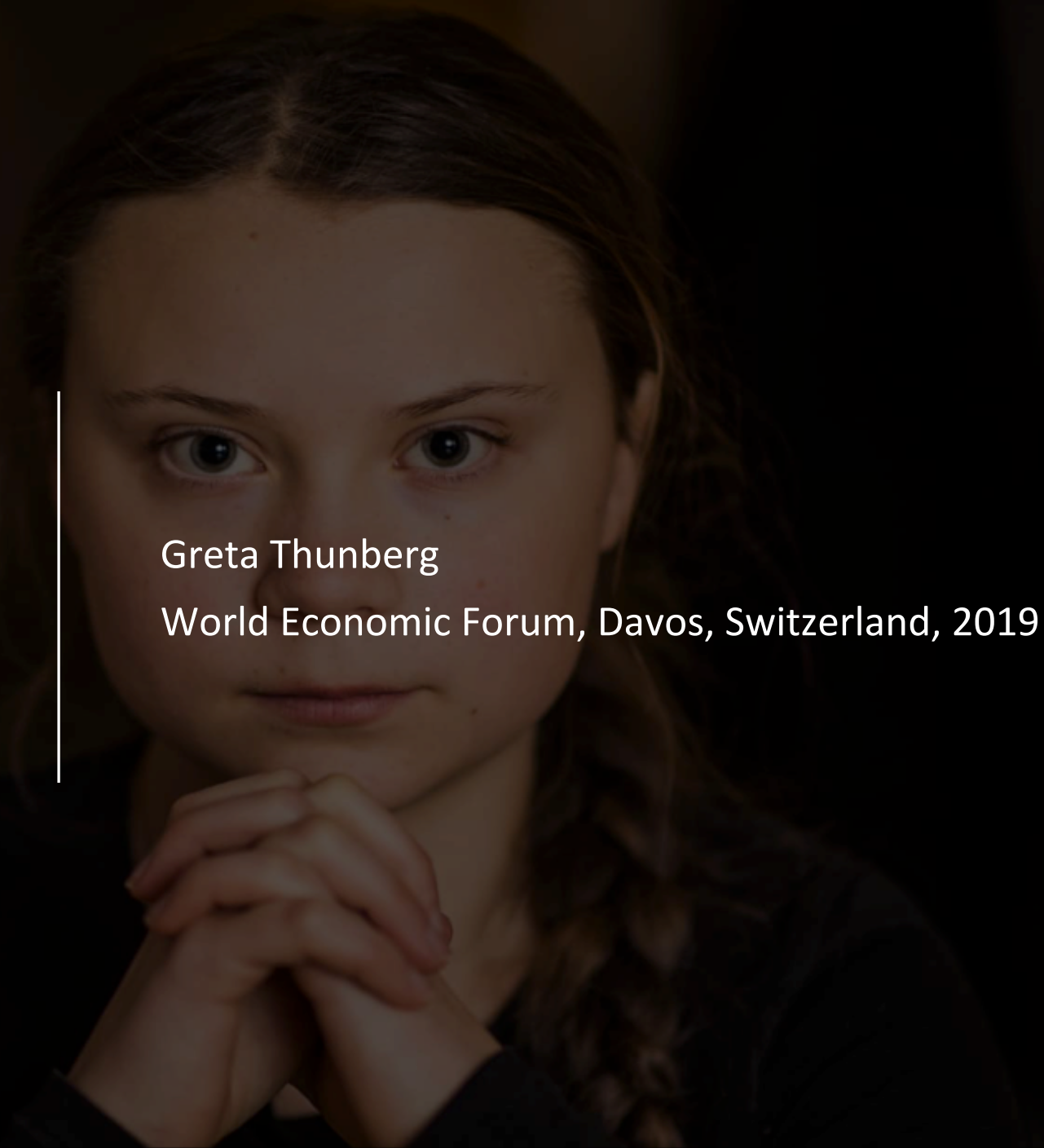


“Our house is on
fire...”

“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



IREC2020

VISION SUMMIT

ENERGY TRANSFORMATION FOR ALL

March 11 | Washington, DC

SAVE *the* **DATE**

Download Vision Summit Principles

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