

# Creating a Secure Solar Future for America

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*Powering the Solar+ Decade*



# About SEIA

*Building a strong solar industry to power America*



Federal, State &  
Local Policy



Climate &  
Equity



Managing  
Growth



Trade, Technology  
& Manufacturing



# THE SOLAR+ DECADE

**The Goal:** Solar energy will comprise 30%  
of all U.S. electricity generation by 2030

# Reaching 30% of solar generation means that in 2030, the U.S. solar industry will:

install nearly  
**125 GW**  
annually

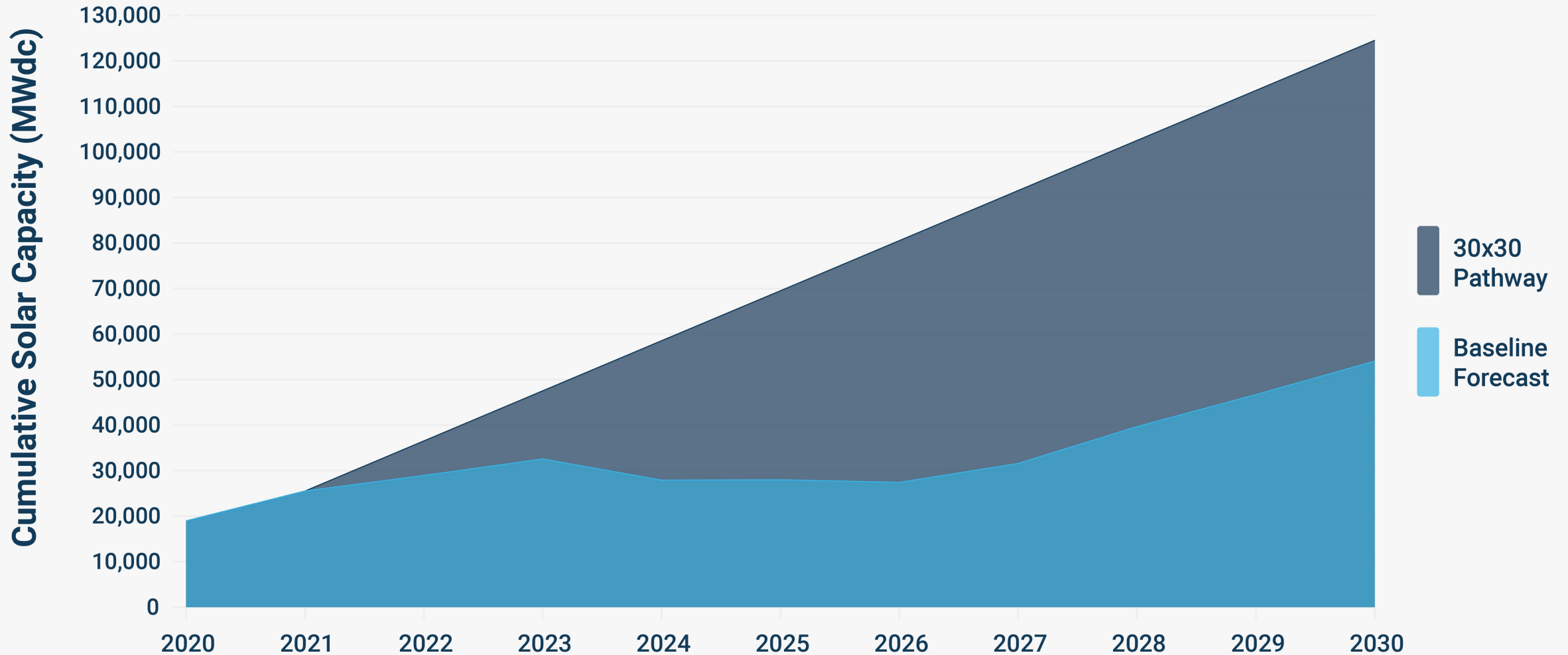
have built nearly  
**850 GW**  
of total capacity

add over  
**\$120 B**  
into the economy  
every year

employ over  
**1 M**  
Americans

offset nearly  
**700**  
million metric tons  
of CO2 annually

# Annual U.S. Solar Installations Needed for 30% Solar by 2030



# Solar installations need to ramp up quickly to stay on track and tackle climate change

- To reach 30% of generation and stay on track to decarbonize the electricity grid, average solar installations must increase from roughly 30 GW<sub>dc</sub> over the next decade to more than 48 GW<sub>dc</sub>
  - In other words, annual solar installations must increase by 60% above current forecasts between 2022 – 2030 to reach the Biden administration's long-term climate goals
- Remaining on a business-as-usual path for just 3 years would **cost the U.S. 417 million metric tons of CO2 emissions** – the equivalent of keeping 11 coal-fired power plants online from 2020 – 2030
- To catch up after a 3-year delay would require a staggering 436 GW<sub>dc</sub> of total installations between 2028 – 2030

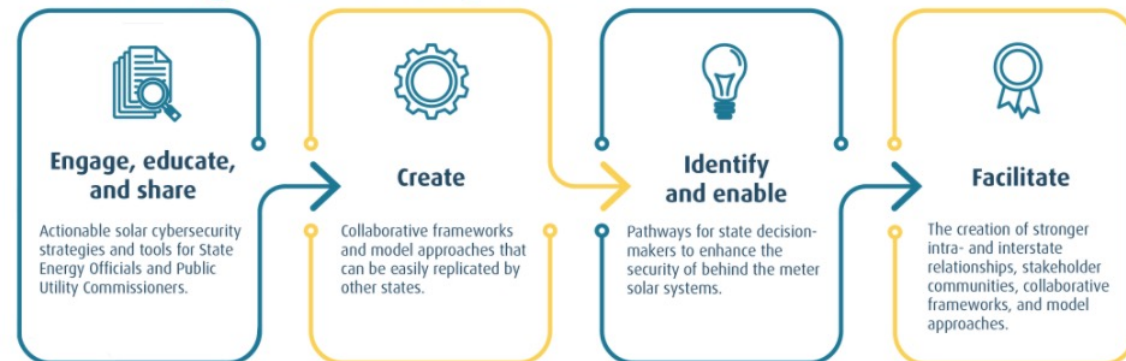




# Cybersecurity Advisory Team for State Solar (CATSS)

- ❖ As a key member of the CATSS advisory team, SEIA is leading the industry in its effort to fight evolving cybersecurity threats.
- ❖ CATSS is a project implemented by NASEO and the National Association of Regulatory Utility Commissioners (NARUC) to mitigate cybersecurity risks and consequences in solar energy developments.
- ❖ With support from DOE, the project leverages state, federal and private-sector expertise on cybersecurity, grid and photovoltaic to identify model solar-cybersecurity programs and actions for states to take in partnership with utilities and the solar industry.

## CATSS High-Level Objectives



# Thank You!

