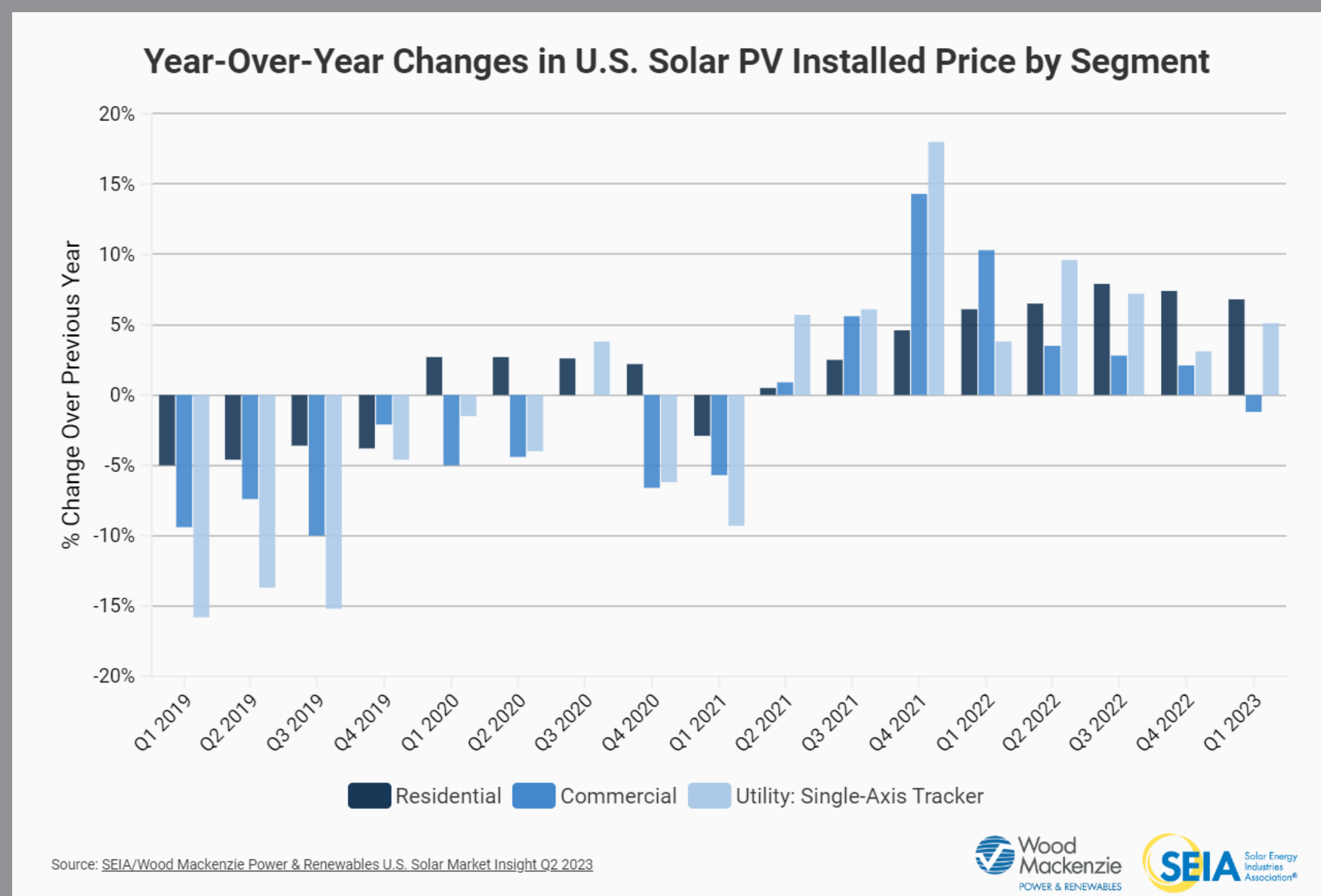
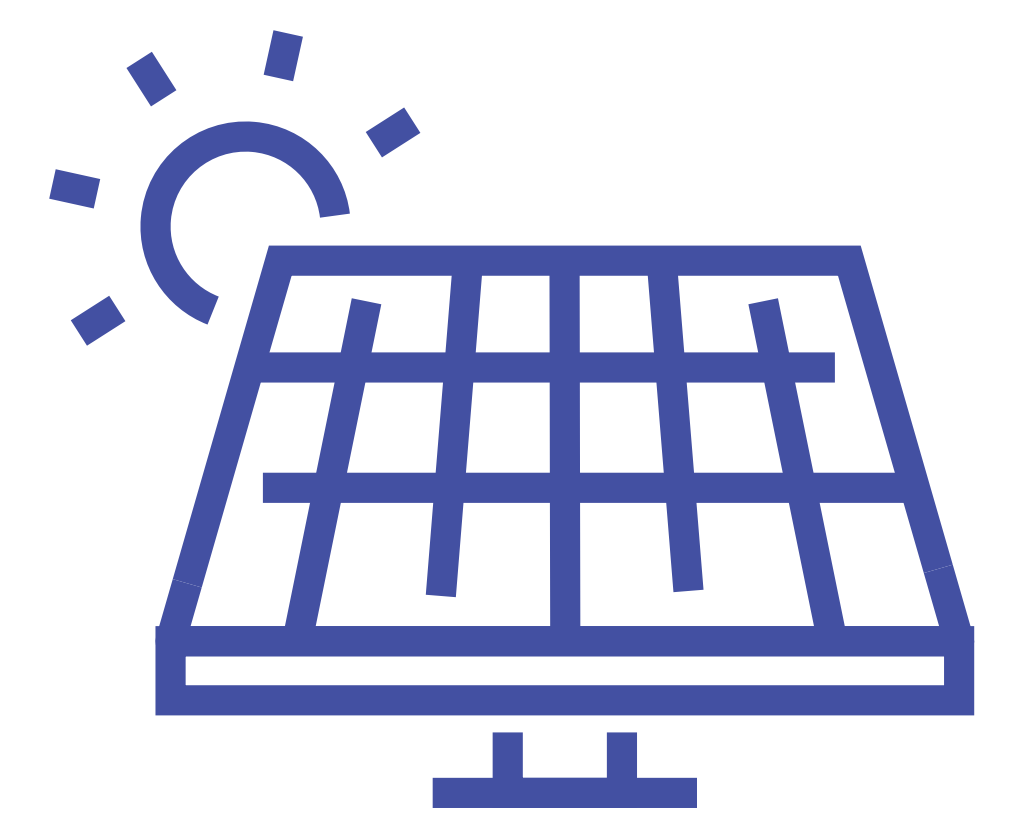


HOW THE INFLATION REDUCTION ACT (IRA) AND SUPPLY CHAIN CHALLENGES HAVE LASTING IMPACTS ON SOLAR FARM SAFETY

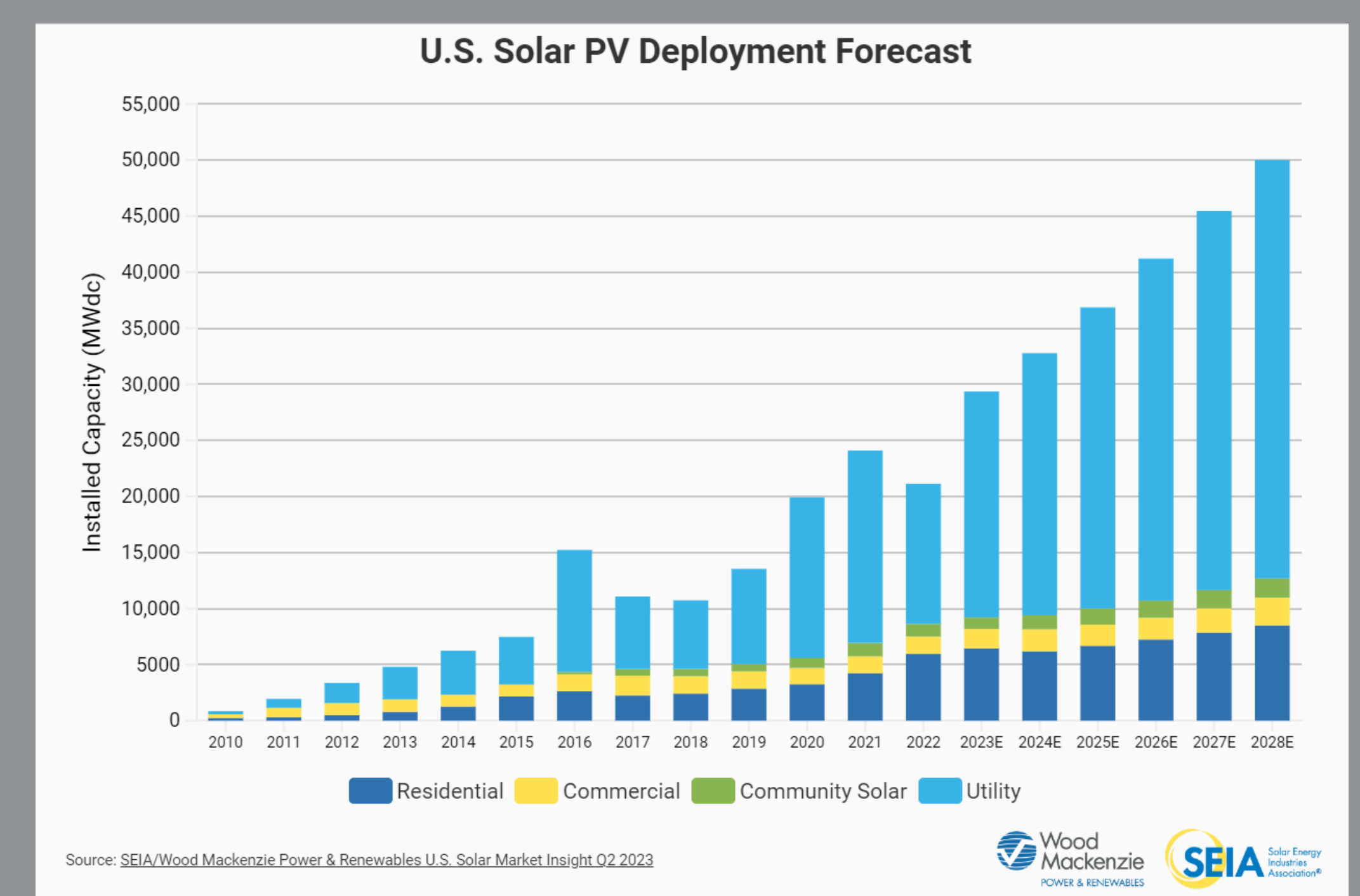
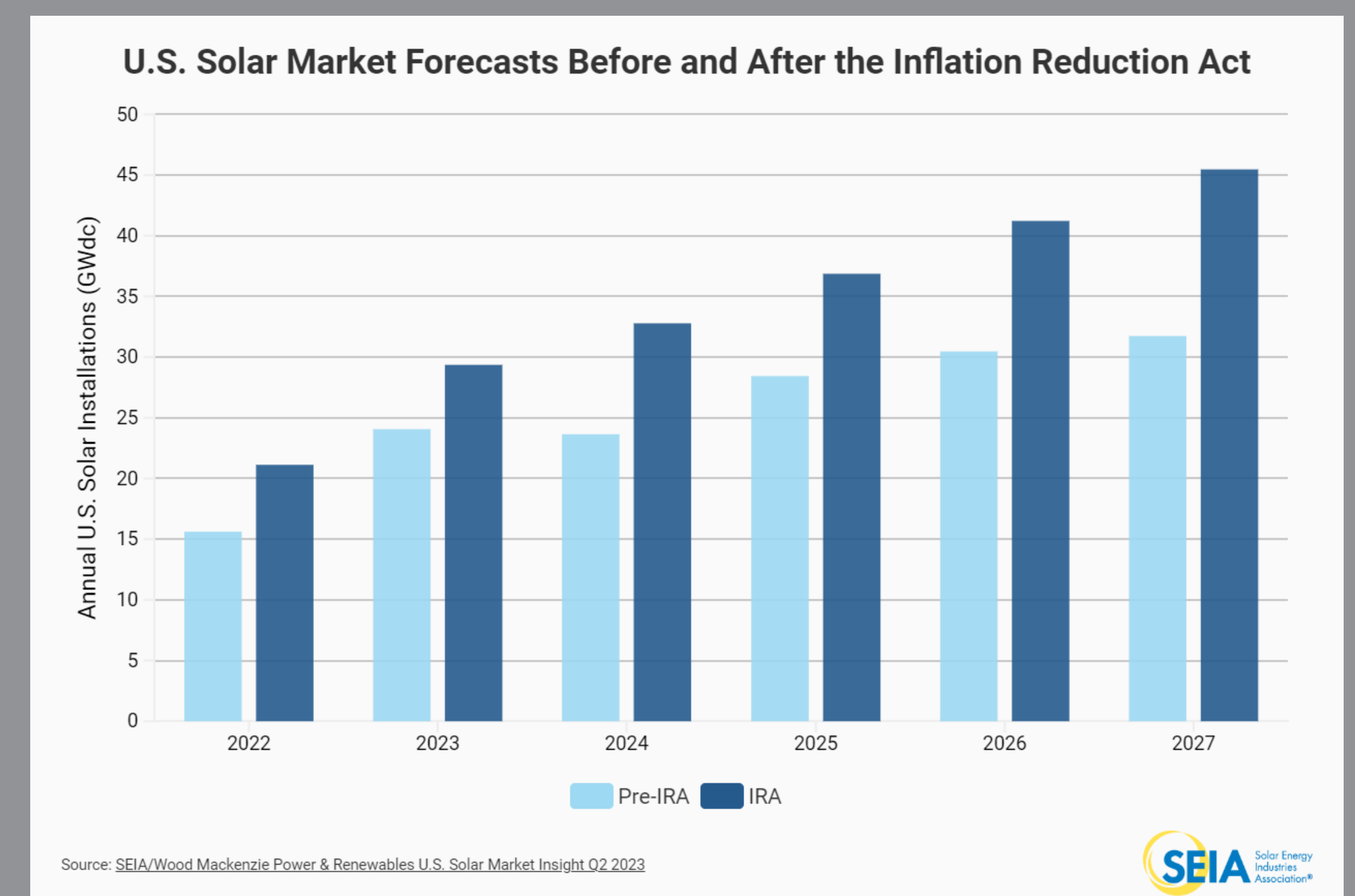


SUPPLY CHAIN & LABOR SHORTAGE CHALLENGES

- Shortage of components including polysilicon, silver, copper, aluminum, and glass has had significant impacts on solar prices.
- As the Uyghur Forced Labor Protection Act went into effect, which bans imports from China's Xinjiang region over concerns about slave labor, from June to October U.S. Customs and Border Protection has seized 1,000+ shipments of solar energy equipment.
- Until more domestic manufacturing comes online there will be continuation of supply chain challenges.
- U.S. unemployment rate at a historic low of 3.7 percent, causing disruptions from lack of labor starting at manufacturing to shipping/trucking to installation.
- Investments by the IRA will create nearly 537,000 jobs a year for a decade, according to an analysis by BW Research commissioned by The Nature Conservancy.

IMPACTS FROM THE INFLATION REDUCTION ACT

- Inflation Reduction Act (IRA), signed into law last year, provides for an estimated \$370 billion in solar, wind and electric vehicle subsidies.
- The IRA provides a 30% solar investment tax credit through 2025, while before the law it was at 26% and scheduled to drop to 22% in 2023, providing long-term solar and storage tax incentives, as well as investments in domestic solar manufacturing.
- Provisions in the IRA include significantly expanding US tax credits for solar projects – the revised Section 45 PTC provides a base credit of 0.3 cents per kWh of electricity produced by solar projects. For projects that satisfy the applicable wage and apprenticeship requirements, the credit rate would be 1.5 cents per kWh.
- The IRA is estimated to lead to the development of 550GW of new, utility-scale clean power by 2030.
- The American Clean Power Association (ACP) has stated roughly 40% of the US' electricity will come from wind, solar, and energy storage by 2030.
- Includes bonus credits for businesses paying prevailing wages and hire registered apprentices and penalize companies that promise to pay prevailing wages but don't follow through. Workers who are owed prevailing wages will receive the difference, plus interest.
- Establishes Make it in America provisions for the use of American-made equipment for clean energy production and provides expanded clean energy tax credits.



RISK FACTORS FOR SOLAR FARMS

- Community opposition to the project.
- PV Solar fire estimated at \$250K+ (fire investigation, replacement of inverters and damaged infrastructure, and lost revenue from downtime).
- Risk of fire spreading to buildings, neighboring communities, or causing a wildfire.
- Output power generation from solar panels can decrease as much as 50% when panels are not cleaned for six months.
- Safety concerns from the lack and usage of scarce water, chemical/detergents used for cleaning, surface damage to panels, parts delays and electrical hazards (e.g. electric shock and electrocution).

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