



# Solar PV Manufacturing in the United States

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# OVERVIEW

- **Progress in the U.S. Solar PV Manufacturing Industry's Rebirth**
- **What You Get When Locating Manufacturing in the United States – Pluses and Minuses**
- **U.S. Industrial Policy**
- **U.S. Trade Policy**
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# Progress in the U.S. Solar PV Manufacturing Industry's Rebirth

- First wave – responsive to 2018 Safeguard Measure
  - HQC, Jinko, LG
  - Prior AD/CVD cases (2012, 2015) had not catalyzed domestic production
- Second (larger) wave – responsive to IRA incentives
  - Larger modcos, many of them Chinese-invested
- Still heavily focused on module assembly
  - Difficulties for ingot/wafer/cell
  - Existing industry needs imported cells to assemble

# What You Get When Locating Manufacturing in the United States

## Pluses

- Rule of Law
- Workforce
- Off-takers
- Access to mfg incentives
- Qualify for local content
- Avoid regulatory issues (like UFLPA)

## Minuses

- Cost penalty (difficulty scaling)
- Uncertainty around mfg incentives
- Possible problems importing inputs

# U.S. Industrial Policy

- IRA 45X
- IRA Deployment Incentives' Domestic Content Bonus
- CAPEX Help – 48C and DOE-LPO
- Government procurement and Defense Production Act
- State & local incentive packages

# U.S. Trade Policy: Big Themes & Patterns

- Increased use of discretionary trade remedies
- Continued heavy use of legal/bureaucratic trade remedies
- No trade liberalization
- “Worker-centered” and “policy space”
- Disconnecting from China
- Some efforts to align trade policy with energy transition goals

# U.S. Trade Policy: Categories of US Trade Remedies

## Legal/Bureaucratic

- AD/CVD
- Section 337

## Political/Discretionary

- Section 301
- Section 232
- Section 201

# U.S. Trade Policy: Potential Sources of Trade Friction

- IP theft or infringement
- Over-capacity
- Dumping
- US industry seeking protection from *fairly-traded* imports
- Broader country-specific (geo-political) friction

# Questions??

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