

# Clean Technology Manufacturing in the U.S: Reflections and Next Steps





## Why is Clean Technology Manufacturing Important?

- 1. Ensures U.S. workers capture the economic gains of innovative industries;
- 2. Redresses the economic impacts resulting from the decline of manufacturing jobs;
- 3. Builds reliable and affordable supply chains;
- 4. Counters the pollution and worker exploitation that plague some overseas clean technology supply chains; and
- 5. Provides U.S. leadership for the technologies of the future.



### **Growth of Clean Technology Manufacturing**

- Increased manufacturing announcements
  - \$388B of investment for batteries, electric vehicles, solar, wind, and semiconductors
- Manufacturing construction growth
  - \$237B spent in December 2024, up from \$128B in July 2022, and \$80B in October 2019.
- Business and consumer investment in manufacturing and deploying clean technologies is rising
  - \$493B for 2023-2024
  - 71% increase from the previous two-year period
- Job creation is expanding in the clean technology sector
  - Study finds anticipated 336,000 manufacturing jobs per year







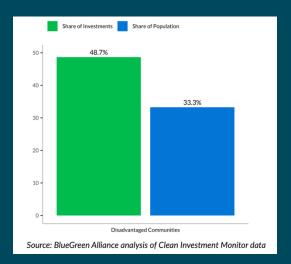
Source: U.S. Census Bureau via FRED® Shaded areas indicate U.S. recessions.

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### **Clean Tech Manufacturing & Job Growth**

- Two-thirds of job creation is expected to occur in manufacturing and construction
- This contrasts with the sectors of the economy where growth has trended
- Electrical, electronic, and electromechanical assemblers are the manufacturing occupations most impacted









Source: U.S. Bureau of Labor Statistics via FRED® Shaded areas indicate U.S. recessions.

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## **Supply Chain** Mapping



### Auto Manufacturing Facilities

- . Tier 1: Assembly ■ Tier 2: Propulsion, Electronics, Body, & Interior
- · Tier 2: Parts & Materials Tier 4: Infrastructure & Aftermarket
- Coal Communities

#### 2.050 facilities meet filters

American Emergency Vehicles Jefferson NC

- Anderson Manufacturing, Camilla
- ARBOC Specialty Vehicles, Middlebury IN
- Autocar Company, Hagerstown IN
- Autocar Company, Birmingham AL Autokiniton, Elkton MI
- Rattle Motors, New Philadelphia CH
- Bay Bridge Manufacturing, Bristol IN
- Big Rig Manufacturing, Las Vegas NV Blue Bird, Fort Valley GA





# **Supply Chain Gaps**

### Framework:

- Evaluate domestic manufacturing capacity
- Analyze degree that domestic production meets domestic demand
- Spotlight most notable gaps

### Gaps:

- 1. PV wafers and cells
- Offshore wind
- 3. Transformers



### **Policy Considerations:**

- 1. Due to policy developments the U.S. lost manufacturing capacity.
- 2. Manufacturing is capital intensive and requires long time horizons for investment decisions.
- 3. Manufacturing productivity in the U.S. has undergone a slowdown.
- 4. Demand for new manufacturing workers means several occupations could face labor shortages
- 5. Capacity to produce supply chain research and support investment strategies







### **CONTACT US**

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