

NEW KEYSTONE RESEARCH CENTER ANALYSIS SHOWS PENNSYLVANIA'S WAREHOUSE ROOFTOPS COULD POWER MORE THAN 924,000 HOMES BY GOING SOLAR

Research quantifies massive solar potential across every county and legislative district as lawmakers weigh relevant legislation

A new analysis released last month by the Keystone Research Center (KRC) finds that Pennsylvania's warehouse rooftops represent an enormous, untapped resource for clean energy, capable of generating enough electricity to power more than **924,000** homes annually.

The analysis breaks down warehouse rooftop solar potential by county, state House district, and state Senate district, and estimates that **Pennsylvania has 581 million square feet of warehouse rooftop space suitable for solar installations, which could generate 9,391 gigawatt-hours (GWh) of electricity each year.**

"Warehouses are everywhere in Pennsylvania — especially in central PA and suburban communities — and their flat, unobstructed rooftops are ideal for solar," said **Stephen Herzenberg**, Executive Director Emeritus and Economist for Keystone Research Center. "These data make clear that rooftop solar on warehouses can generate massive amounts of clean electricity without consuming farmland or green-field sites, and without the siting and zoning battles that have slowed other solar development."

The data release comes as the Pennsylvania General Assembly is considering legislation to modernize the state's net metering framework, including a "net metering" bill (HB 2348) that addresses solar on warehouses. On March 23, the House passed HB 1260, which would require new

warehouses over 100,000 square feet to be designed with at least 40% of their roof suitable for solar and authorize local tax exemptions for solar-related increases in property value.

Key Findings

- **581 million square feet** of warehouse rooftop space in Pennsylvania is suitable for solar.
- That rooftop space could generate **9,391 GWh of electricity annually.**
- That's enough to power more than **924,000 Pennsylvania households** each year.
- Solar energy is the fastest-growing source of new electricity in the United States, and relatively short construction timelines make solar a key component of efforts to keep the grid reliable and avoid brownouts.
- The potential is spread across the state — from central Pennsylvania's logistics corridors to suburban distribution hubs — offering localized economic and energy benefits in virtually every legislative district.

Interactive Data Available

KRC's full dataset is available on an interactive website at keystoneresearch.org/solar-on-warehouses, featuring:

- A statewide map of warehouse rooftop solar potential by county.

• Sortable tables with data for every state House and Senate district.

• County-level breakdowns of square footage, energy generation potential, and household equivalents.

"Solar on warehouses is a win-win. It puts underutilized roof space to work generating clean, affordable electricity right where people live and work," said **Claire Kovach**, KRC Research Director, who led the analysis. "And our data shows the opportunity exists in every corner of the Commonwealth."

Methodology

KRC's estimates are based on data through year-end 2024 and build on PennEnvironment's 2023 *Solar on Warehouses report*, Northeast city and county Commercial Building Inventory data, QCEW Establishment data for warehouses in Pennsylvania, and the Missouri Census Data Center's Geographic Correspondence Engine (Geocorr 2022). County-level estimates were allocated to state House and Senate districts using a geographic correspondence engine with land area as the weighting variable.

The Keystone Research Center is a nonpartisan economic think tank dedicated to conducting research and advancing policies that promote shared prosperity and economic opportunity for all Pennsylvanians.

Turning Visions Into Reality.

NOW OFFERING EXPANDED FIRE, POLICE, & EMS LIGHTING SERVICES.

When you're the first on scene, your lighting isn't a feature—it's a lifeline. Our business understands the critical nature of reliable, high-performance safety, including emergency lighting systems for fire, EMS, and law enforcement.

We don't just install lights; we provide peace of mind. We service work safety and emergency lighting too.

Contact our team to build a custom vehicle to fit your daily work needs. We are happy to service any vehicles in your fleet too.



3417 Pricetown Road, Fleetwood, PA
610-944-7455 • www.levanmachine.com

YOUR WORK TRUCK & CNC MACHINING DESTINATION!

