

# **Solar power generation installed on the roof of the supermarket**



## Overview

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Our recent report, *Solar on Superstores*, found that the rooftops of America's big box stores and shopping centers have the potential to generate 84.4 terawatt-hours (TWh) of solar electricity each year, equivalent to the amount of electricity that would power almost 8 million . Building solar on America's 100,000 big box stores would cut energy use, reduce air pollution, fight global warming and make the electric grid more resilient. Those giant buildings are hard to miss, but they're hiding something on their . Lightweight solar panels are made using advanced materials like thin-film photovoltaics or flexible polymers. They're significantly lighter than conventional silicon-based panels and can be installed on roofs, awnings, walls, and even carports without needing major structural reinforcements. Key . Big box stores and supermarkets offer optimal locations for solar installations, with potential for rooftop and parking canopy systems to reduce facility energy costs by half while advancing Maryland's renewable energy and climate goals. Poised to be key players in this movement are big box retailers, whose sprawling . A typical 50,000-square-foot grocery store can spend \$250,000 annually on electricity, and unless they run on renewable energy, that results in about 1,900 tons of CO2 emitting into the atmosphere, the carbon equivalent to running 360 vehicles for one year! A smaller 2,000-square-foot neighborhood . SolarEdge solutions for PV harvesting from roofs and parking lots, storage, EV charging, and energy management, are designed to maximize electricity cost savings, reduce carbon footprint, enhance customer appeal, and generate new revenue opportunities. Our intelligent energy optimization platform\* .

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### [Which 10 American retailers can lead the way on rooftop solar?](#)

This narrated video explains how putting solar on all of America's warehouses and superstores could produce enough electricity to power 22% of all the households in America.

### **Which 10 American retailers can lead the way on**

This narrated video explains how putting solar on all of America's



### [CA: Kroger Installs Major Solar Power Array on Bakery Facility Roof](#)

The grocers have installed a solar power array at their 300,000-sq.-ft. bakery facility in La Habra, Calif. The rooftop installation features nearly 3,000 solar panels that can produce nearly 1 megawatt (AC)

### [How Lightweight Solar is Powering the Future of Supermarkets , Solivus](#)

Discover how lightweight solar technology is transforming supermarkets into energy-efficient hubs - from rooftop installations to virtual power plants powering stores and communities.



### **Bringing solar to grocery rooftops ,**



## All Energy Solar

If a solar installation is large and effective enough, not only could it power the grocery store, but it could "sell" electricity back into the grid. This pays the grocery store's future power needs from the grid,

### [How big-box stores can help marginalized communities go solar . Grist](#)

Installing solar panels on these vast rooftops could provide one-fifth of the power that disadvantaged communities need, bringing renewable energy to people who can least afford it,



### [Kroger's California bakery installs nearly 1 MW of rooftop solar](#)

US retailer The Kroger Co (NYSE:KR) said it has installed close to 1 MW of solar modules on the rooftop of its bakery facility in La Habra, California. The rooftop system consists of nearly

### [What's going on up there? The potential for solar on superstores](#)

Superstores might be hard to miss, but they're hiding something on their roofs: huge potential for solar power. Building solar on America's 100,000 big box stores would cut energy use,



## Commercial Application: Solar Power for Retail , SolarEdge

The SolarEdge solution for solar-powered retail stores includes PV harvesting on the roof or

above outdoor parking lots, EV charging, energy storage and energy optimization-all from a single vendor,

## Superstore rooftops are ideal for solar farms, report finds

A new report from Environment America and the Frontier Group calculated that the big, flat and sun-exposed roofs of superstores like Walmart and Ikea would make ideal locations for solar



## Solar on Superstores

To accelerate the transition to a future of 100% clean and renewable energy, America must take advantage of untapped solar energy opportunities, including on the rooftops of "big box" superstores.

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