

# RISE ENERGY SYSTEMS: GROUND-MOUNTED, REMOTELY DEPLOYED SOLAR ARRAYS

## PROBLEM

- Only **39%** of US small buildings are suitable for a roof-mounted 4 kW solar array
- A roof can be unsuitable for solar due to size, structure, orientation, or slope
- Ground-mounted solar arrays are rarely used residentially because of the large land requirement

## SOLUTION

- A solar array that is self-contained, ground-mounted, and stores in a small area.
- Solar panels will automatically deploy from storage and retract when land is needed for other uses
- This design leverages driveways, yards, and parking lots to provide solar to residential and commercial users who cannot install roof-based solar

## BENEFITS

- Dual-use land, reduced installation costs, reduced inspection costs, simplified cleaning/maintenance, mobile, renter-friendly, modular, improved high-wind safety due to panel auto-retraction

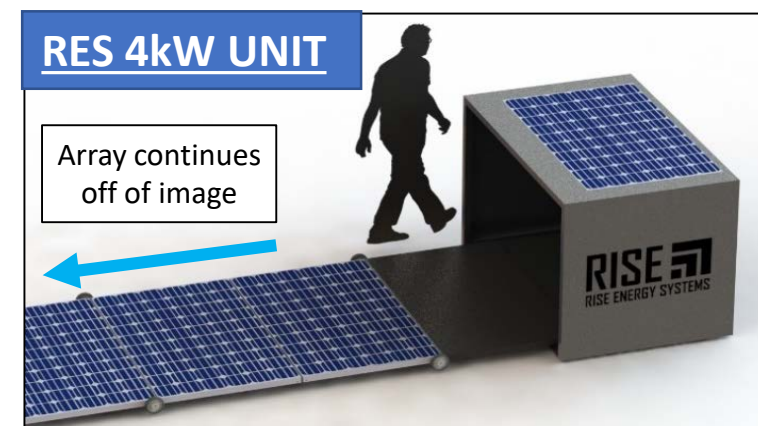


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U.S. DEPARTMENT OF ENERGY

Intellectual property protected with provisional patent application



## STOWED VS DEPLOYED PROTOTYPE

