

Buildings are uncomfortable, expensive to cool, and dependent on the grid.

Windows drive up to 40% of cooling loads. Interior blinds cost \$200–\$400 per window to replace every 5–10 years — and they don't stop heat. Occupants overheat, HVAC runs at peak, and utility bills climb. The building stays dependent on expensive energy it didn't need to consume.

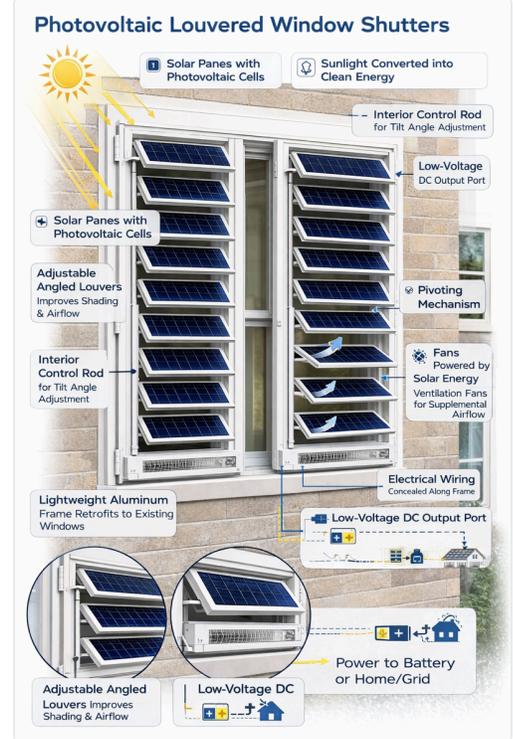
SolMod is the middle ground. Exterior-mounted solar louvers that block heat before it reaches the glass, restore airflow, and generate clean electricity — without replacing windows or tying into the building's electrical system. It's freedom from energy dependence, starting at the facade.

40% of cooling loads driven by windows

#1 complaint: thermal discomfort

80% of 2050 buildings already exist

\$22B+ global window retrofit market



Photovoltaic louvered window shutters — shade, airflow, and generation in one system.

Why Pilots Matter

Comfort complaints — not energy models — trigger retrofit decisions. Facility managers need **measured proof** before committing budget. SolMod pilots produce procurement-ready data that maps to real decision-making criteria, not abstract projections.

Pilot Structure

PHASE 1

Site & Baseline

- Select target facade elevation(s)
- Document baseline comfort conditions
- Define success metrics with stakeholders
- Coordinate installation window

PHASE 2

Deployment

- Install louver system on target windows
- 4–10 weeks on-facade stability period
- Non-disruptive facilities coordination
- Deploy thermal and generation monitoring

PHASE 3

Measurement & Readout

- Post-install performance data collection
- Pre/post comfort and energy comparison
- Plain-language procurement summary
- Next-step deployment recommendation

What We Measure

Comfort & Thermal

Occupant surveys, complaint frequency, temperature and solar heat gain reduction.

Energy & Peak Demand

HVAC runtime, peak demand reduction during solar gain hours, cooling load comparison.

Solar Generation

kWh per louver and facade, generation profile vs. building load, self-consumption potential.

Operational

Install time, maintenance observations, facade cleaning and window access compatibility.

Ideal Pilot Site

- ✓ South or west-facing facades with significant solar exposure
- ✓ Documented occupant comfort complaints (heat, glare)
- ✓ Limited rooftop solar opportunity or constrained electrical capacity
- ✓ Internal sustainability, facilities, or energy management champion
- ✓ Willingness to share anonymized results for mutual credibility
- ✓ Accessible window openings on floors 1–6 for initial deployment

Typical Timeline

2–4 weeks planning → **8–14 weeks** kickoff through readout. Installation: 1–3 days per facade section. No tenant displacement, no glass removal, no building electrical tie-in.

Stakeholders

Pilots produce outputs for every stakeholder in the decision chain:

Sustainability / Energy Director

Carbon reduction data, renewable generation metrics, LEED/WELL credit pathways.

Facilities / Operations

Install logistics, maintenance requirements, facade access, complaint reduction.

Finance / Procurement

Cost-benefit readout, payback modeling, ITC eligibility (30% solar tax credit), C-PACE financing.

Executive / Board

Plain-language summary with measured results, risk assessment, deployment recommendation.

Ready to explore a pilot?

Share your building profile and constraints. We will respond with a practical pilot path designed around measurable outcomes and operational reality.

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