# Saving lives through affordable shading: shielding communities from excessive solar heat

Energy Technologies Area BERKELEY LAB

Office of ENERGY EFFICIENCY & RENEWABLE ENERGY

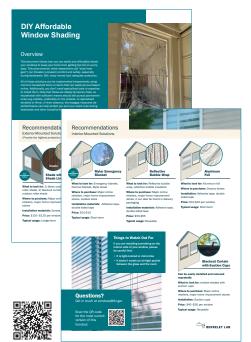
#### **DIY Shading for Emergency Use**

### **Resilience during heatwaves**

Mylar emergency blanket deployed as DIY window solar control.



A handout with easy-to-follow guidance is now available. Scan the QR code below for the PDF!



#### **Contact Info**

Luís Fernandes Lawrence Berkeley National Laboratory Research Scientist

Email: Ilfernandes@lbl.gov Website: windows.lbl.gov



The AERC label for residential shading products represents the complexity of their energy performance in a rating that is easy for consumers to understand.



nation of this product may lead to improvement in energy perforr

### **LBNL Research**

The AERC labeling system depends on sophisticated modeling, simulation, and testing performed at LBNL for a variety of shading geometries and material properties.





#### Contact Info

**Charlie Curcija** Lawrence Berkeley National Laboratorv Technology Researcher IV

Email: dccurcija@lbl.gov Website: windows.lbl.gov



complex cavity configuration

## Contact Info

**Katherine Cort** Pacific Northwest National Laboratorv Senior Economist

Email: katherine.cort@pnnl.gov Website: pnnl.gov

#### **Commercial building rating**

A rating for commercial building shading systems is now under development.

ENERGY





# Energy Savings • Cuts HVAC load 10-33% in homes with single-pane or double-pa clear-glass windo Reduces air leaka Operable, good looking Stays on for year-round comfort Preserves historic windows

Window attachments like cellular shades and storm windows with low-emissivity coatings can provide energy savings in the winter and the summer.