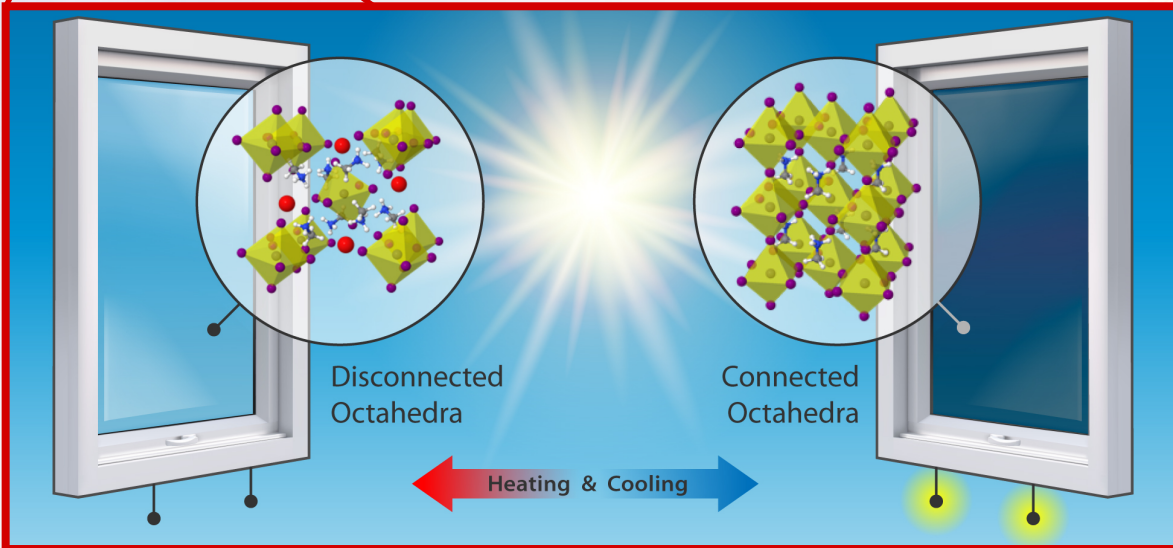


Switchable. Photovoltaic. Window. Technology.

Perovskite-based photovoltaic windows that change from transparent (heating/lighting mode) to semi-transparent (energy generating mode) with environmental conditions

Generate electricity

Lab-scale 1" by 1" cell demonstrated with 5% power conversion efficiency
Reduces building electricity load
Produce clean electricity where it otherwise could not be sited



Manage heating, cooling, lighting

Reduce cooling demands on a building
Provide natural lighting and heating
~1/3 payback period vs high efficiency windows

Market opportunities

Beachhead: static PV residential skylights
Future: spandrel, dynamic vision glass
Flat glass = \$265.8 billion market
Climate tunable—works anywhere

Turn windows into a net-energy-positive architectural feature