THE NET-ZERO SUN BREEZER WINDOW

UPLIFT SOLAR

WYTHE WINDOWS

Problem:

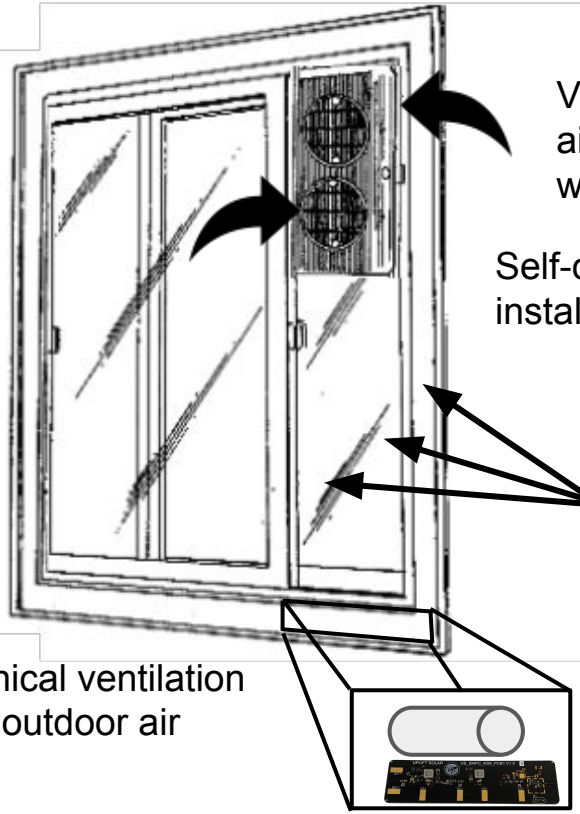
- Buildings account for 40% of energy use and GHG emissions in U.S.
- HVAC accounts for 35% of building energy
- Sick Building Syndrome from poor indoor air quality is a government- recognized public health issue
- Solar windows generate low power and are complicated to install

Solution:

A solar energy generating window that powers an integrated fan to improve indoor air quality.

- Net zero energy
- Offsets electricity consumption for mechanical ventilation
- Reduces energy consumption needed for outdoor air heating and cooling

Concept Drawing With Energy Efficient Residential Window



Ventilation/exhaust fan creates air exchange without opening window

Self-contained unit simply installed like ordinary window

Solar cell facing, embedded solar cells, and solar glass for energy generation

Integrated battery and power electronics for power mgmt., charging, and sensor/ IoT communications