

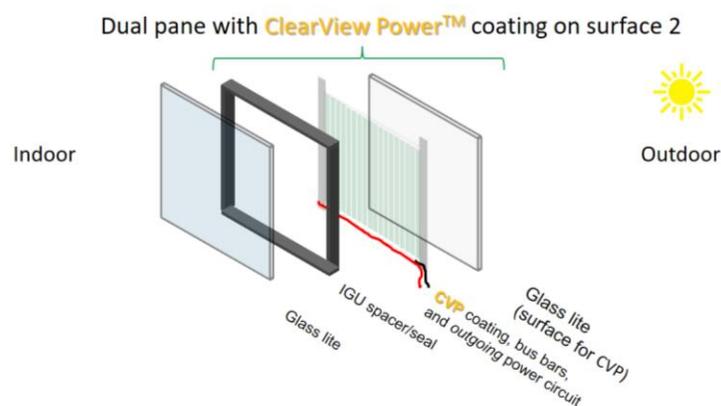
# Ubiquitous Energy's ClearView Power™ Transparent Solar Windows

**Company Background:** Ubiquitous Energy is a Silicon Valley-based company spun out of MIT in 2012. The company has raised \$25M to date, has established state-of-the-art research and pilot production facilities, and is led by CEO Keith Wilson and a talented team experienced in bringing new products to market. The company has won numerous awards, including the MIT Clean Energy Prize Renewable Energy Award, and has been featured on multiple media outlets, including Bloomberg, The Economist, National Geographic, and Nature Energy.

**Product:** Ubiquitous Energy has developed a transparent solar technology called ClearView Power™ (CVP). CVP is transparent to the spectrum of light that we can see, while selectively absorbing non-visible ultraviolet and infrared light and converting it into electricity. CVP is the most transparent solar technology on the market, allowing any surface to convert ambient light into useful electricity without impacting aesthetics. The company is working with partners such as Asahi Glass Company and Nippon Sheet Glass to commercialize the technology as a coating on glass to produce photovoltaic windows for markets around the world. CVP will enable power producing and energy efficient windows by reducing the greenhouse effect. That is clean energy and high solar control without excessive tinting.

**Market:** CVP's major opportunity is the architectural glass market and will be added to buildings windows, thereby creating power producing windows. This represents a \$4B annual market opportunity as part of the building-integrated photovoltaic (BIPV) glass market and \$50B+ annual market opportunity when CVP is applied to all standard window glass as a blue ocean market enabled by its superior aesthetics and high transparency. The technology also has applicability to greenhouses, automotive glass, and portable electronics representing over \$6B annual market opportunity. Through current joint development projects, Ubiquitous Energy will deliver demonstration units and first pilot installations in 2019. Subsequent mass production of CVP solar windows will follow within two years.

**Metrics:** CVP windows are being produced today at Ubiquitous Energy's facility in Silicon Valley. Windows are 14"x20" in size each, are ~50-60% transparent, color neutral, and are 3% efficient. The company's roadmap is to achieve >10% efficiency without comprising aesthetics (recently reported certified performance of 10%), with commercial size windows (>1 square meter) available in late 2021.



Visit [www.ubiquitous.energy](http://www.ubiquitous.energy) for additional information