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Ubiquitous Energy demonstrates first large-area window façades with truly transparent solar

Redwood City, CA – Ubiquitous Energy, the leader in transparent solar technology, has produced the first demonstration commercial window façades using over 1 square meter of the company's truly transparent solar technology, ClearView Power™. The fiberglass-framed ClearView Power™ window units demonstrate the transparent photovoltaic technology's aesthetic beauty, high transparency, and color neutrality. "These window demonstrations are the result of many years of development and represent the great progress achieved with ClearView Power™. Recent advances led to the creation of these prototype façades, which are the world's first large-area, truly transparent solar window façades," said Ubiquitous Energy co-founder and CTO, Miles Barr.



Each façade is made of six insulated glass units (IGUs) that are each 14 inches by 20 inches in size, totalling over 1 square meter of ClearView Power glass. The windows produce solar electricity in sunlight that can provide power to buildings for a wide range of applications including lighting, while simultaneously maintaining the performance of standard commercial window glass: over 50% transparency, neutral in color, and low emissivity (low-E) for energy efficiency. The lightweight, fiberglass window frames representing the latest and best in lightweight and high insulation framing were custom created by Alpen High Performance Products.

"With support from our partners, we are excited to be closing in on the realization of our vision to commercialize this technology for broad adoption within the \$100B+ architectural glass market," said Ubiquitous Energy CEO, Keith Wilson. The company plans to begin pilot installations of the demo size window units in 2019.

Applied directly to glass using standard glass coating equipment, ClearView Power™ is a highly transparent, color neutral coating. Using standard thin film coating equipment, ClearView Power™ selectively absorbs and converts non-visible light (ultraviolet and infrared) to electricity while transmitting visible light. Additionally, ClearView Power™ doubles as a low-E and solar control coating in addition to its electricity generation by blocking infrared light that is commonly known as solar heat. The transparent solar coating can be applied to vertical surfaces of buildings turning traditional windows into aesthetically pleasing, highly energy efficient, and electricity generating windows that are desired by architects, designers, and occupants.