

SunProject & Potential LEED 2009 Rating System Points (USGBC)

EXISTING BUILDINGS: OPERATIONS AND MAINTENANCE

Sustainable Sites

- **Credit 8.0: Light Pollution Reduction** **0.5 points**

Minimizing interior and exterior lighting trespass from the building and site during nighttime to reduce light pollution can earn credit. Reduction of the interior lighting portion requires all non-emergency built-in luminaires with direct line of sight to any openings in the envelope (translucent or transparent) to be automatically turned off during after-hours periods (the total duration of all programmed after-hours periods must be ≥ 2190 hours per year, i.e. 50% of annual nighttime hours). SunProject's automated window treatments can contribute towards this by minimizing the openings in the building envelope during nighttime hours.

Energy & Atmosphere

- **EA Prerequisite 2: Minimum Energy Efficiency Performance** **required**

By reducing solar heat gain and associated cooling loads, SunProject's window treatments can help existing buildings achieve an energy performance rating of ≥ 69 through the EPA's ENERGY STAR Portfolio Manager, or demonstrate an increase in energy efficiency of $\geq 19\%$ versus the national average for similar building types.

- **Credit 1.0: Optimize Energy Performance** **4.1 points**

SunProject's window treatments may contribute towards increasing an existing building's energy efficiency performance by $\geq 21\%$ versus the national average. Assuming SunProject's window treatments can contribute a maximum overall energy savings of 4.1% for a typical existing commercial building in the U.S., a potential contribution of 4.1 points can directly be earned, so long as the minimum energy performance requirements for EA p2 were met through other means.

Indoor Environmental Quality

- **Credit 2.3: Occupant Comfort - Thermal Comfort Monitoring** **<1 point**

By preventing unwanted solar heat gain during the cooling season, SunProject's automated window treatments can significantly improve thermal comfort conditions for human occupancy. This assists with a building meeting indoor thermal comfort conditions specified by ASHRAE 55-2004 required for credit.

- **Credit 2.4: Daylight & Views** **<1 point**

One form of glare control for each window is required as part of this credit. SunProject's window treatments can fulfill this requirement which, along with appropriate window and building orientation design, can provide sufficient daylight illuminance levels (between 25-500 footcandles on Sept. 21st, 9am-3pm) in $\geq 75\%$ of all regularly occupied spaces inside the building.

Total: 4.6-5.6 points of 23 available points

ADDITIONAL ENVIRONMENTAL ATTRIBUTES

SunProject's window treatments can be operated both automatically and manually to influence lighting and thermal comfort within the building. This would contribute towards providing the high level of individual lighting system and thermal comfort control for building occupants, though shading systems are not a recognized method to earn credit in the LEED credit IEQc6 – Controllability of Systems: Lighting and Thermal Comfort Control.

The aluminum extrusions used in SunProject's window treatments are comprised of 60% post-industrial and 20% post consumer recycled content.