CAL STATE LA

CALIFORNIA STATE UNIVERSITY, LOS ANGELES

May 20, 2016

To Whom It May Concern:

I am pleased to provide this letter of affirmation that the STARS Innovation 3 (IN-3) credit for Solar Canopy Charging Stations describes a unique program at Cal State LA. From the outset, this innovative student project has included various internal and external stakeholders with strict technical, aesthetic and financial considerations. The Los Angeles Department of Water and Power (LADWP) has provided strategic guidance and industry expertise, along with members of the ECST faculty and Cal State LA staff.

There are now more mobile devices than people in the world, with over 7.2 billion personal devices multiplying five times faster than their owners. As the proliferation of mobile devices continues, along with the globalization of western consumption patterns, projects such as the solar canopy charging station will be of increasing importance as sustainable decision making becomes an integral counterpoint of growing mobile device and plug load use.

Based on US Department of Energy estimates, plug load accounts for approximately 25% of the total electricity use within commercial buildings, and represents the fastest-growing commercial end use of energy. Furthermore, the wasted heat energy from office equipment and mobile devices is likely to require the building to supply additional cooling. As a consequence, minimizing plug loads is a primary challenge in the design and operation of energy-efficient buildings and the key driver for the development of solar canopy charging stations throughout Cal State LA.

Educational opportunities include community outreach to raise awareness of the benefits of solar power generation, the rising energy demand from mobile device plug loads, student learning opportunities in creative solar system design and installation, and the inclusion as part of a sustainability tour on the Cal State LA campus. The most exciting prospect of the solar canopy charging station project, however, is the conversations that they will inevitably spark around energy generation and consumption throughout the campus community. It is also the intention of the Solar Canopy Team to share their open source product design and installation information so this project can be replicated around the world.

As the industry liaison and sponsoring client for this Senior Design project, I can affirm that this current program is not already covered by an existing STARS credit

and greatly exceeds the highest criterion of any existing STARS credit. Therefore, I truly believe that the Cal State LA Solar Canopy Charging Station project should be recognized with the Innovation credit under the STARS program. Should you have any questions, please do not hesitate to contact me at 323.343.5782 or bhaydel@calstatela.edu.

Regards,

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