

## PermaCity Construction Corp, Constellation, and Port of Los Angeles Meet Renewable Energy Mandate with First Rooftop SolarStrap™ Installation at CRAFTED at the Port of Los Angeles



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In a large-scale project, PermaCity, Constellation, and the Port of Los Angeles announce the completed Feed-in-Tariff (FIT) project installation on the rooftops of Warehouse No. 9 & No. 10 at CRAFTED at the Port of Los Angeles.

Owned and operated by Constellation, PermaCity designed, engineered, and constructed 1.2 megawatt (MW) rooftop solar array for the Los Angeles FiT on top of classically restored 1940s-era Port of Los Angeles Warehouses No. 9 & No. 10. PermaCity's patent pending SolarStrap™ racking technology allowed for full roof coverage, high power, and great

looks for this adaptively renovated building.

“Not only is the SolarStrap™ racking technology leading the industry, the fact that we are delivering the first Port of Los Angeles FiT brings us tremendous pride,” said PermaCity CEO Jonathan Port.

“Constellation is pleased to help the City of Los Angeles expand their impressive FiT program and advance their sustainability goals,” said Zeb Wallace, senior business development manager, solar, for Constellation. “PermaCity's professionalism and knowledge of the Los Angeles market and FiT program were essential to navigating this complex project.”

CRAFTED at the Port of Los Angeles is one of the largest creative campuses in the Los Angeles area. CRAFTED Warehouse No. 10 is home to the permanent, handmade, artisan marketplace with over 48,000 square feet of permanent handmade artisan marketplace, and 100 individual artists, crafters and food makers, and event space. CRAFTED Warehouse No. 9 is home to the new Belgian-style ale brewery Brouwerij West.

“CRAFTED at the Port of Los Angeles is proud to contribute the first major solar project to the Port's mandate to mitigate carbon emissions through solar development,” said Rachel Sindelar, CRAFTED Executive Director. “As a business that supports community self-reliance by encouraging the sourcing, purchasing and appreciation of locally made products, we thank the Mayor and Port leadership for championing this project and facilitating its completion.”

### Technology & Design

PermaCity used its patent-pending locally manufactured SolarStrap™ to elegantly mount the array and to decrease visible height of the modules. Located by the ocean, details such as special coating on the stainless steel prevent galvanic action found in dissimilar metals. SolarStrap™ UL2703 and Los Angeles L.A. RR number make for fast and efficient installation, eliminating most to the ground wire now replaced by the SolarStrap™ itself. Using SolarStrap™ proprietary attachment methods securely fasten 3,582 SolarWorld 320-watt high performance modules through a thin roof deck to solid structural rafters. SolarStrap™ is world famous for its non-penetrating, non-ballasted systems on Membrane roofs, now adapted to built-up type roofs using an innovative flat stanchion design making this project possible. The modules have a 25-year Power Production Guarantee. 39 SMA Tripower

24 kW AC inverters feature algorithms that boost performance. Web based monitoring provides detailed solar generation and continuous system health monitoring.

#### **System Performance, Environment & Jobs**

The system generates an estimated 40 million kWh during the 20-year supply agreement with LADWP, mitigating about 37,600 tons of carbon, the equivalent emissions of 331 homes, or taking 400 cars off L.A. streets. A good move to Los Angeles' commitment to 50% renewable energy and self-reliant energy production. The project created 38 direct jobs.

#### **Financial Return**

The project delivers a return on investment to system owner Constellation from a 20-year Power Purchase Agreement standard in the FiT from Los Angeles Department of Water and Power (LADWP). The system host, Crafted, receives a percentage of the gross revenue each year. The roof mounted solar cools the roofs during the hot summer months.

#### **Contribution to Customer Transition into Carbon Neutrality**

PermaCity and Constellation provided the Port and Crafted with a prime example of how ordinary buildings can become powerful energy generators and climate change leaders. The project is a beacon for Port tenants that will surely have multiplier effects from the success. The cooling of the building in the summer helps to make the building more comfortable and usable avoiding expanding air conditioning and lowers the urban heat island effect caused by heat build-up from HVAC exhaust.

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#### **About PermaCity**

PermaCity is an innovative leader in specialized energy solutions. Since our inception, we've remained 100% committed to solar innovations and execution. Our growth is based on a long, successful track record with multiple big-box stores and industrial projects as well as the strong relationships we have forged with clients such as Forever 21, Cathay Bank, Samsung and Costco. Because we're solar specialists, we understand exactly how to strategically develop and seamlessly execute solar installation projects that deliver ROI for your business.

#### **About Crafted**

CRAFTED at the Port of Los Angeles opened in 2012 after the development by leading place-maker, Mr. Wayne Blank. The man behind hotspots like the Bergamot Station in Santa Monica, California. Realizing the potential for the arts and crafters in the South Bay, CRAFTED became the heartbeat of the revitalization of the Port of Los Angeles. Nearly four years later, CRAFTED has been home to hundreds of artists, jewelry makers, furniture designers, and crafters of all shapes and sizes, and continues to grow as a marketplace and more. CRAFTED launched its event rental space available year-round and is quickly becoming one of the hottest wedding locations in the Los Angeles area. Newest to the CRAFTED family is Brouwerij West, a 26,000 sq. ft. brewery open as of February 27, 2016 located next to the marketplace. To learn more about CRAFTED and how to get involved visit <http://craftedportla.com/>.

#### **About Constellation**

Constellation is a leading competitive retail supplier of power, natural gas and energy products and services for homes and businesses across the continental United States. Constellation's family of retail businesses serves approximately 2 million residential, public sector and business customers, including more than two-thirds of the Fortune 100. Baltimore-based Constellation is a subsidiary of Exelon Corporation (NYSE: EXC), the nation's leading competitive energy provider, with 2015 revenues of approximately \$29.4 billion, and more than 32,000 megawatts of owned capacity comprising one of the nation's cleanest and lowest-cost power generation fleets. Learn more at [www.constellation.com](http://www.constellation.com) or on Twitter at @ConstellationEG.