

# 法總「智慧光太陽能」陸續啓用

## DRBA's Wisdom Light Solar Project Starts Producing Electricity

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「智慧光太陽能」計劃是成效良好的「無量光太陽能」計劃的延續。萬佛聖城「無量光太陽能」電場自2015年開始運轉以來，每年發電自給自足，賬單上省下的電費高達100%，環保又省錢。萬佛聖城公用基礎設施組於2019年得知，聯邦政府提供的太陽能30%稅率優惠，將自該年過後逐年遞減。因此公用基礎設施組在2019年底之前，提出了「智慧光太陽能」計劃：在法界佛教總會三個地點安裝太陽能。

第一個地點是擴充萬佛聖城現有的太陽能電場，發電量從50萬瓦增加10%至55萬瓦。增加的發電量，未來將供應妙覺佛教學院第一期建築物使用。這項太陽能擴建工程已

The Wisdom Light Solar Project is a successor solar project to the greatly beneficial Infinite Light Solar Project. The Infinite Light Solar Project, a 500KW solar farm at the City of Ten Thousand Buddhas (CTTB), has been generating enough electricity to offset 100% of CTTB's electricity bills each year since its onset in 2015. It has been a green and money-saving energy source. The Wisdom Light Solar Project was conceived in 2019 by the CTTB Utility Infrastructure team. Realizing that the 30% federal solar tax credit would be reduced each subsequent year after December 31, 2019, the utility team initiated a series of solar projects at three DRBA locations before the end of 2019.

The first location is a 10% expansion of the existing solar farm at the City of Ten Thousand Buddhas. The expansion is intended to serve the electrical needs of the first phase of the Wonderful Enlightenment Buddhist Institute. The 10% expansion of the existing solar farm at CTTB started producing energy on December 18, 2020. Since phase one of the Wonderful Enlightenment Buddhist Institute hasn't powered up, PG&E pays for the excessive electricity that CTTB generates.

The second location is the City of Dharma Realm (CDR) in West



於去年完工，並自2020年12月18日開始發電。由於妙覺佛教學院第一期建築物尚未開始供電，因此萬佛聖城太陽能電場擴建後多餘的發電量，是由北加州太平洋瓦斯電力公司收購。

第二個地點是位於西沙加緬度的法界聖城，發電量為2.7萬瓦，略多於法界聖城電力需求的一半。最初的計劃是安裝太陽能系統後，能像萬佛聖城一樣，100%供應城內的電力需求。但法界聖城能夠安裝太陽能板的地點有限，若在地面安裝太陽能板，則法界聖城中心地帶的停車場已是新大雄寶殿預定地，其他的停車場須保留為消防用途，不能有任何東西擋住。

因此只能考慮在屋頂安裝太陽能板，但法界聖城建築物大多為西班牙式陶瓦屋頂，不能安裝太陽能板。也曾考慮興建停車棚，在停車棚頂安裝，但能夠蓋停車棚的停車場地點又有安全顧慮。少數幾棟平頂的建築物中，有的建築物屋頂未來將被新大雄寶殿遮住陽光，「智慧光太陽能」計劃因此不得不縮減法界聖城的太陽能規模。由於工程比較複雜，這套太陽能系統目前仍在施工中，預計2021年4月底完工。未來視情況，或可在其他地點再增加太陽能板。

第三個地點在法界佛教大學瑜伽市校區善財參學中心，在屋頂安裝了3萬瓦的太陽能系統，並自2021年2月17日起發電。這套太陽能系統可望將善財中心的電費賬單金額減少80%。

三個地點合計，在這些太陽能系統的使用期間（25年以上），「智慧光太陽能」計劃約可節省120萬美元的電費。計劃協調人張簡嘉乃指出，隨著「智慧光太陽能」加入「無量光太陽能」照亮更多道場，我們期望見到更環保、也更光明的未來。☸

Sacramento. It is a 27KW system that will offset more than half of the electrical energy usage at CDR. Originally a full-size system was designed at CDR. However, there are very limited spots for installing solar panels on the ground. CDR's central parking lot is reserved as the future site of the Great Jewel Hall of Heroes. The other parking lots act as fire lanes and cannot be blocked.

Roof installation of solar panels then was the only option but most of the roofs at CDR are Spanish clay tiles, unsuitable for installing solar panels. Building carports and installing solar panels over a parking lot was once in the plan. However, due to security concerns, this part of the plan was cancelled. Among the very few buildings with flat roofs good for solar panel installation, the future CDR Great Jewel Hall of Heroes will cast a shadow on one major building with flat roof. The Wisdom Light had to downsize the project for CDR. Due to more construction complexity, CDR's solar system is still under construction and is anticipated to complete by the end of April 2021. Depending on how the new solar panels perform, more maybe installed on other parts of the campus in the future.

A third location is DRBU's Sudhana Center in Ukiah. It is a 30KW system and is anticipated to offset about 80% of the electrical energy usage there. Sudhana Center's solar system started producing energy on February 17, 2021.

The combined energy cost saving for all three locations is expected to be \$1.2 million over the life of the systems, which is greater than 25 years. Amy Chang-Chien, coordinator for the Wisdom Light Solar Project, noted, "Let's look forward to a greener and brighter future with Wisdom Light coming online and joining Infinite Light in illuminating more Way Places!" ☸