



San Diego Energy District Clean. Energy. Choice.

www.sandiegoenergydistrict.org

San Diego Energy District Foundation: Advancing Energy Choice in San Diego

The San Diego Energy District (SDED) Foundation was launched in 2011 to advocate for the establishment of a Local Energy Cooperative under Community Choice Aggregation (CCA), California State Law (AB117 & SB790). The Foundation seeks to educate every San Diego jurisdiction about the benefits of energy choice. It seeks to support the development of the State-Mandated Implementation Plan to support the successful launch of the Cooperative in each San Diego participating jurisdiction at the soonest practical time. The SDED Foundation additionally educates citizens of San Diego County about energy choice, competitive rates, innovation, financing, and greater economic development from local energy projects focused on energy efficiency, solar, and other forms of local renewable generation. See Page 3 for a Flow Chart for the organization of a Local Energy Cooperative under State Law.

What is Community Choice Aggregation (CCA)?

CCA is a public power alternative that allows San Diego area cities and San Diego County to purchase energy over the San Diego Gas &

Electric grid with varying percentages of local, renewable energy content. SDG&E remains in place to provide infrastructure and customer service. The Cooperative will purchase energy from local and remote generators and sell it to customers of the Cooperative. Marin Clean Energy is the first operational CCA in California. San Francisco is launching its CCA program in 2012. Numerous other CCA initiatives are underway around the state and country. A renewable energy cooperative, according to the Galvin Electricity Initiative, is the number one tool for combating climate change.

Why the emphasis on local renewable power?

California's landmark *Energy Efficiency (EE) Strategic Plan*, issued in 2008 and updated in 2011, is built on the foundation of zero net energy buildings. "Zero net energy" means that the electricity demand of the building is met with energy efficiency measures and onsite solar PV generation. The SDED Foundation will focus on procurement from customer-owned rooftop PV arrays to assure that the CCA's own customers are the primary beneficiaries of increased renewable energy procurement. Excess generation from customer-owned solar (PV) arrays will be

purchased by the CCA at a fair rate using a simple fixed tariff structure (this tariff structure is often called a “feed-in tariff” or FIT).

The CCA will have two primary green objectives – 1) rapid reduction of Greenhouse Gas (GHG) emissions from electricity generation and 2) a rapid increase of the supply of green energy to customers. The CCA would establish net zero energy targets of 25 percent of existing residences and commercial buildings consistent with the *EE Strategic Plan* of the State of California. The **2030 target** would be 50 percent for existing residences and commercial buildings.

The **2020 GHG reduction target** for electricity use by CCA customers would be 50 percent less than the 2008 SDG&E per capita customer baseline. The **2030 GHG reduction target** for electricity use by CCA customers would be 80 percent less than the 2008 SDG&E baseline.

GHG reduction targets would be achieved by net zero energy building retrofits and increasing the renewable energy content of the electricity purchased by the CCA. Examples of possible electricity content options are:

Light Green

25% or more from renewable resources initially and reaches **50% by 2020**. At least 50% of the renewable content is generated from local building, parking lot, or brownfield PV by 2020.

Deep Green

100% of the energy is from renewable resources. At least 50% of the

renewable content is generated from local building, parking lot, or brownfield PV by **2020**.

Who are the founders of the SDED Foundation?

The founders are Lane Sharman and Bill Powers, Professional Engineer (P.E.). Lane Sharman is a fifth generation Californian active in sustainable development for many years. Most recently he has been engaged in the development of distributed solar PV projects in support of California’s renewable energy targets. Bill Powers is an energy engineer with 30 years of experience and is the author of San Diego Smart Energy 2020, a local distributed generation alternative to conventional utility-scale development. See:

http://www.etechnicalinternational.org/new_pdfs/smartenergy/52008_SmE2020_2nd.pdf.

What is the SDED Foundation plan of action for 2012?

Outreach to San Diego elected officials, community leaders, and the public in order to stimulate the development of the detailed CCA business and implementation plan templates necessary for the operation of a San Diego Energy Cooperative.

The SDED Foundation is a 501(c)3 nonprofit corporation. Contributions to the SDED Foundation can be made through the San Diego Foundation. Contact Amber Nystedt, the Foundation Coordinator, at 509-899-2372 for inquiries about volunteering, internships, or donating to the district.

Community Choice Aggregation Flow Chart

