La Kretz Innovation Campus
Home of the NetZero Energy
“Best-in-class” Residential
CleanTech Energy Showcase
Summer 2022

HUBe

The HUB of Everything Renewable Energy…

La Kretz Innovation Campus

Now’s the time, this is the place…

Inspired by the creative spirit of the people of L.A., LADWP’s La Kretz Innovation Campus (LKIC) is the front door for cleantech innovation in Los Angeles.
The Campus serves as the home for the Los Angeles Cleantech Incubator (LACI), a launching pad for work in building an inclusive green economy, a hub for incubating startups, transforming markets through unprecedented programs like the Transportation Electrification Partnership, and enhancing the community all over LA.

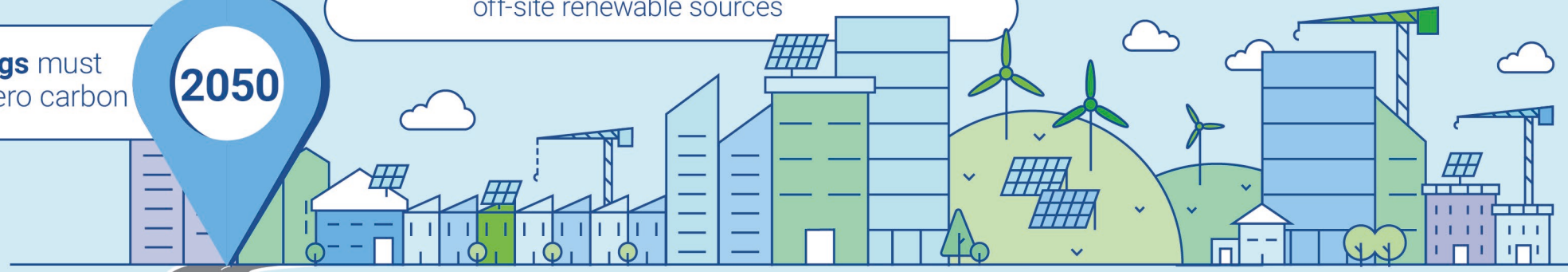
LKIC is a world stage for leaders to bring their support and affirm their commitment to innovation and climate action, the campus has been a gathering place for heads of state like former Vice President Joe Biden, First Lady of Germany Elke Büdenbender, President Pedro Sánchez of Spain, and countless others drawn to pioneering energy.

Advancing Net Zero

A World Green Building Council global project

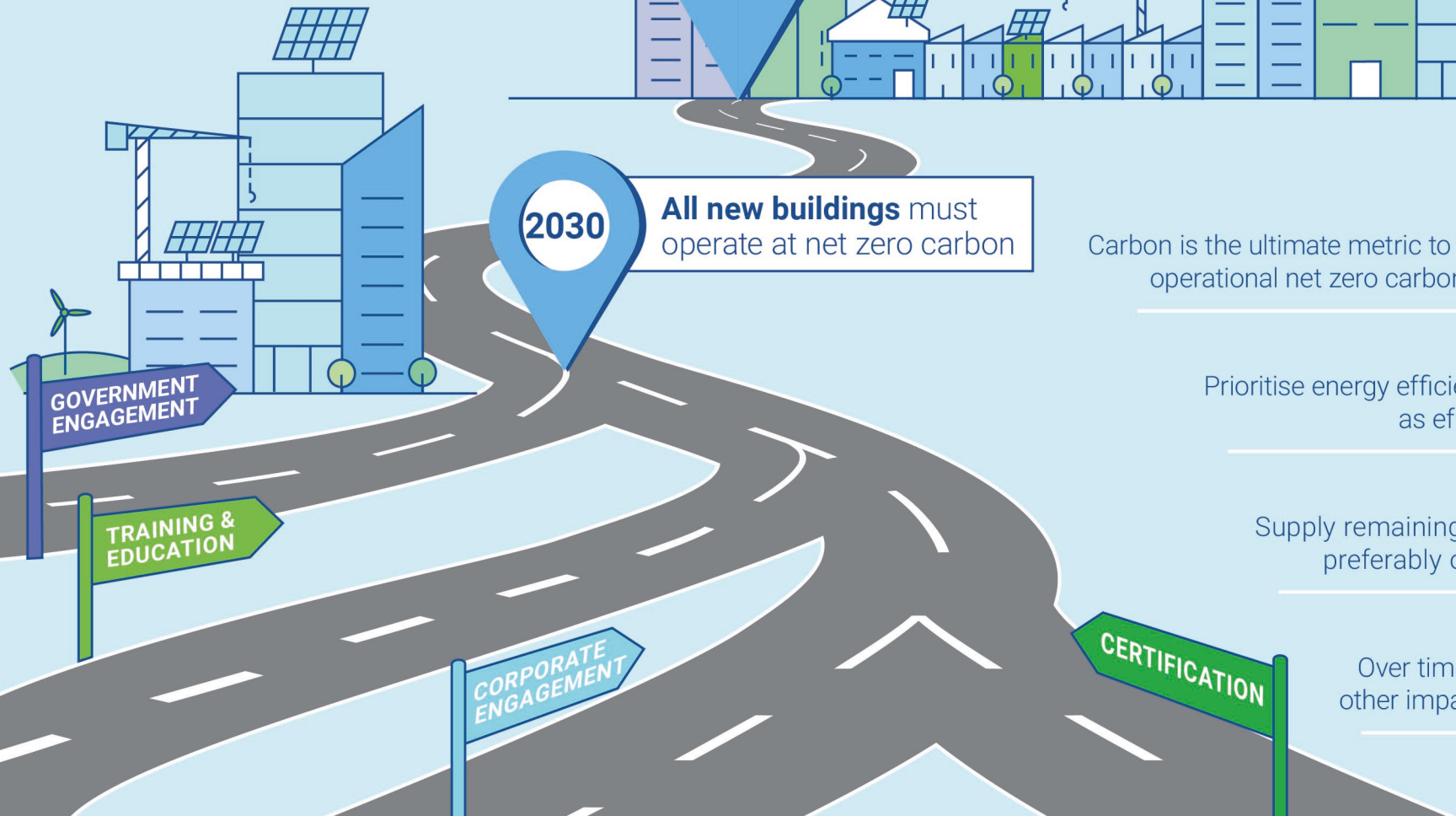
WORLD GREEN BUILDING COUNCIL

WorldGBC definition:
A net zero carbon building is highly energy efficient with all remaining energy from on-site and/or off-site renewable sources



100% of buildings must operate at net zero carbon **2050**

2030 **All new buildings** must operate at net zero carbon



Key Principles

1. Measure and disclose carbon
Carbon is the ultimate metric to track, and buildings must achieve an annual operational net zero carbon emissions balance based on metered data

2. Reduce energy demand
Prioritise energy efficiency to ensure that buildings are performing as efficiently as possible, and not wasting energy

3. Generate balance from renewables
Supply remaining demand from renewable energy sources, preferably on-site followed by off-site, or from offsets

4. Improve verification and rigour
Over time, progress to include embodied carbon and other impact areas such as zero water and zero waste

Version 1 | March 2018

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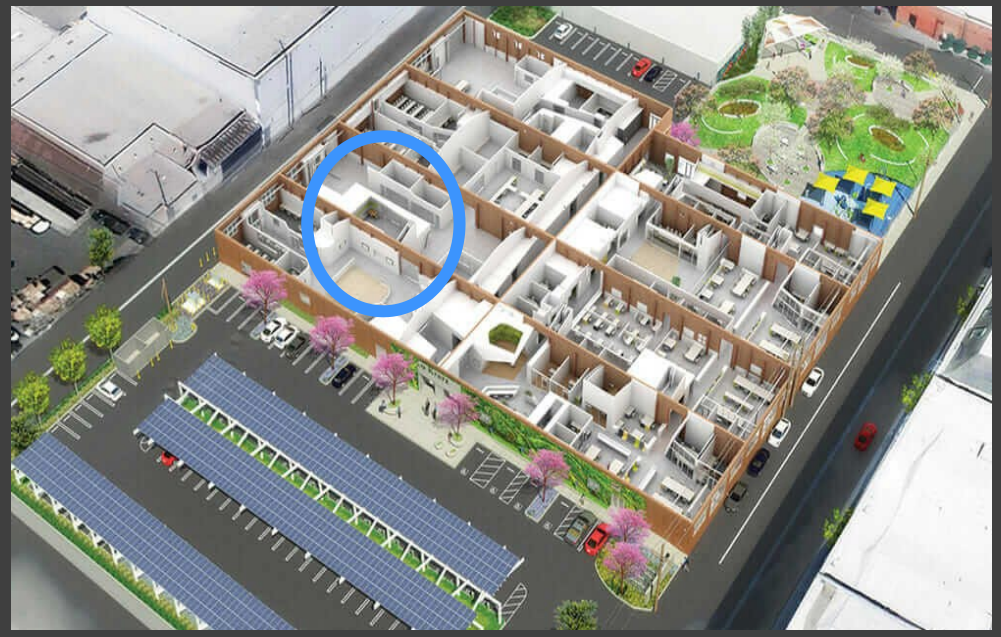
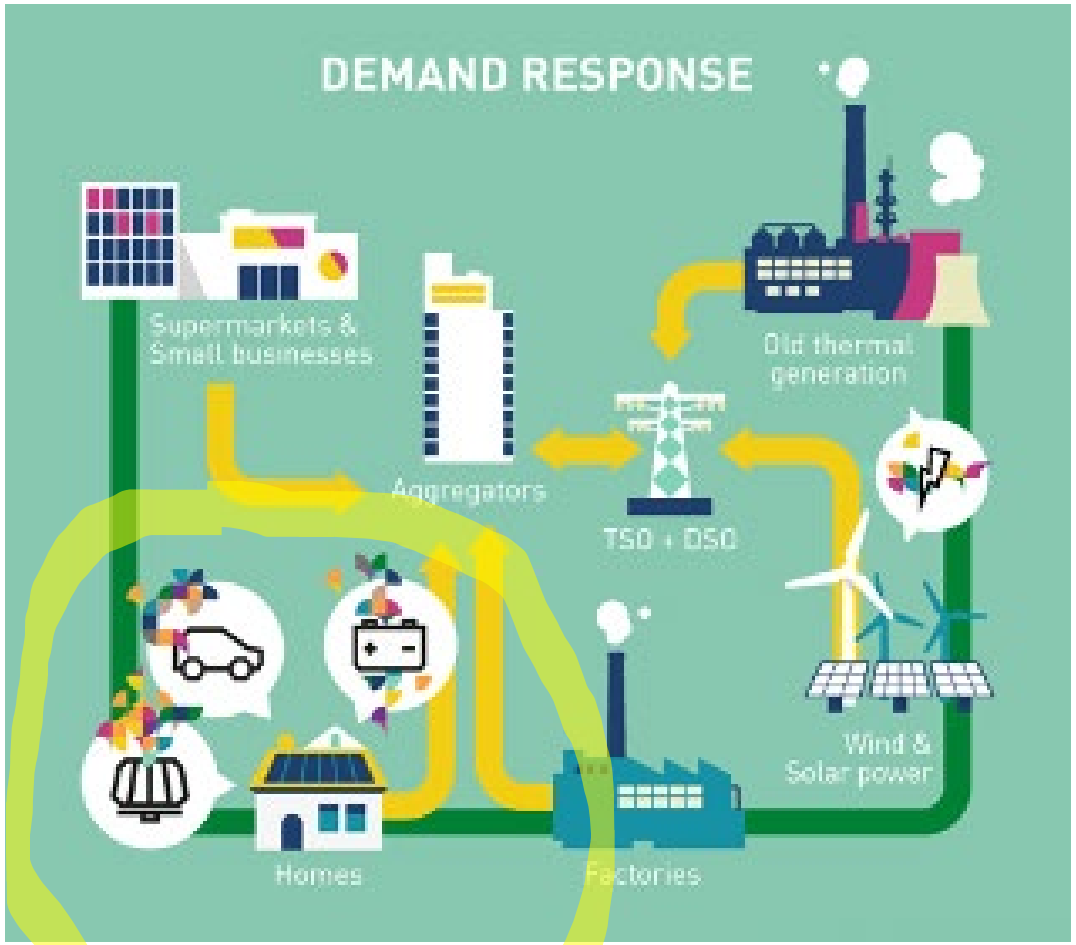
“Best-in-class” Residential NetZero Energy technology showcase

NetZero Energy Systems, Inc. will showcase many of the HUB-e platform features, with its residential solarPV production, LIB energy storage, V2G EV charging, and multiple energy saving and demand response components, as part of a City of Los Angeles Dept. of Water and Power Residential “Best-in-class” net-zero emissions technology solutions showcase
(located at LaKretz Innovation Campus in downtown LA (Summer 2022).

*The LADWP HUBe technology showcase includes NZE channel partners, Ameresco Solar, Schneider Electric, and Discover Batteries.





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Utilities around the country are employing new Demand Response (DR) strategies to meet and lead the transition to a carbon-free energy system. NZE is collaborating with the LADWP to showcase the HUBe DR platform, providing the most advanced components and software to enable a 100% net zero carbon home transformation by 2030. DR contributes to balancing grid energy supply with demand in periods of high renewable energy generation and facilitates the transfer of residential solar power directly to the power grid and/or stores the excess in Li-ion battery energy storage systems and/or electric vehicles (V2G).

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HUB*e*

RESe Solar Carport

Vehicle-to-Grid (V2G)

HUB*e*'s V2G EV charger platform uses bidirectional chargers and smart breakers to provide the flexibility to accelerate renewable energy deployment – mitigating the infrastructure cost associated with mass adoption of Electric Vehicles (EVs). With managed charging, EV batteries can be controlled remotely by a utility, in cooperation with the homeowner, and timed to charge according to the needs of the grid, similar to demand response programs. The energy stored in an EV can be drawn from EV batteries (down to a manageable level – usually late at night) and sold to the grid in times of excess demand. Once the energy shortage has been mitigated the EV charging cycle is automatically restarted. In the near-future V2G will provide DR options that enables utilities and electric vehicle owners to create the next generation DER smart grid.

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HUBe DR Technologies

Eaton's energy management circuit breaker (**EMCB**) allows remote monitoring and control of branch circuits in demand response and residential energy storage applications. The EMCB provides intelligence that integrates the ability to monitor and manage energy consumption with your preferred software platform. This smart circuit breaker is designed to fit in a standard Eaton load center or panelboard to accommodate BR and BAB series of breakers.

The HUBe platform incorporates the Eaton's connected energy management circuit breaker (EMCB) to help ensure grid stability with reliable real-time data for increased revenue generation and is designed to help both utilities and customers through improved energy control.

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HUBe Showcase
Channel Partners

AMERESCO
Green • Clean • Sustainable

Schneider Electric

FERMATA ENERGY

WNW
Winn Energy Controls, Inc.

EATON
Powering Business Worldwide

Discover®
Innovative Battery Solutions

HUBe is designed and built to deliver homeowners, businesses and utilities an all-in-one “best-in-class” safe and cost-effective NextGen smart grid demand management total solution platform with scalable solarPV, battery storage, energy management and V2G EV charging options.

Key Player

The Quintessential American Cleantech Entrepreneur

CORPORATE VISION

PHILLIP ROBERTS, FOUNDER

NETZERO ENERGY SYSTEMS, INC.

Phillip Roberts is the founder of NetZero Energy Systems, (“NZE”) Inc., and co-founded, capitalized, and sold other various cleantech businesses. Phil has over 35 years of successful management experience in major energy corporations (Atlantic Richfield (ARCO) Petroleum Products Company), and as a cleantech product inventor (w/multiple patents) and as a business owner/entrepreneur.

Contact: phil@hub-e.com

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LKIC “Best-in-class” residential solar+battery storage+V2G EV charger technology showcase sponsors

LA DWP Los Angeles Department of Water & Power

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www.hub-e.com
www.ameresco.com

NZE offices located at LKIC/LACI: 525 S. Hewitt Street, Los Angeles, CA 90013