LEADING THE WAY CampusEnergy2022

Feb. 15-18 | Westin Boston Seaport District Hotel | Boston, Mass.



Net-Zero CHP - the key building block to district energy decarbonization

Kurt West VP of Business Development 2G Energy Inc.







Net-Zero CHP - the key building block to district energy decarbonization

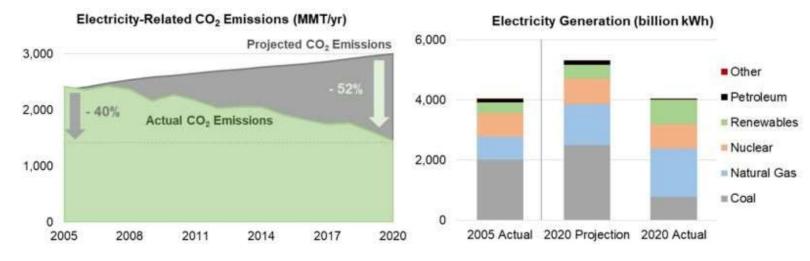
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Halfway there? The low hanging fruit is done.



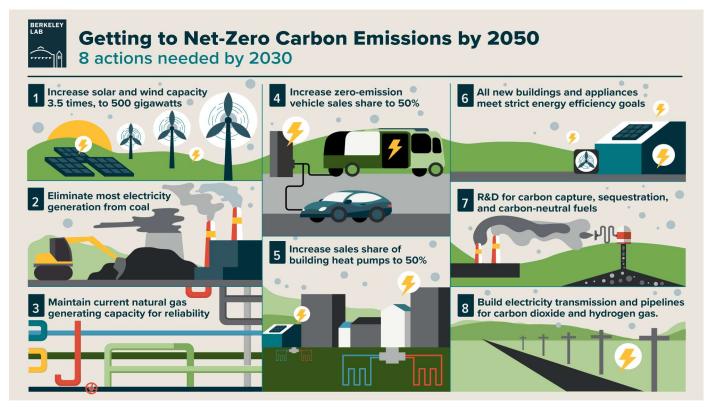
Source: Berkley Labs

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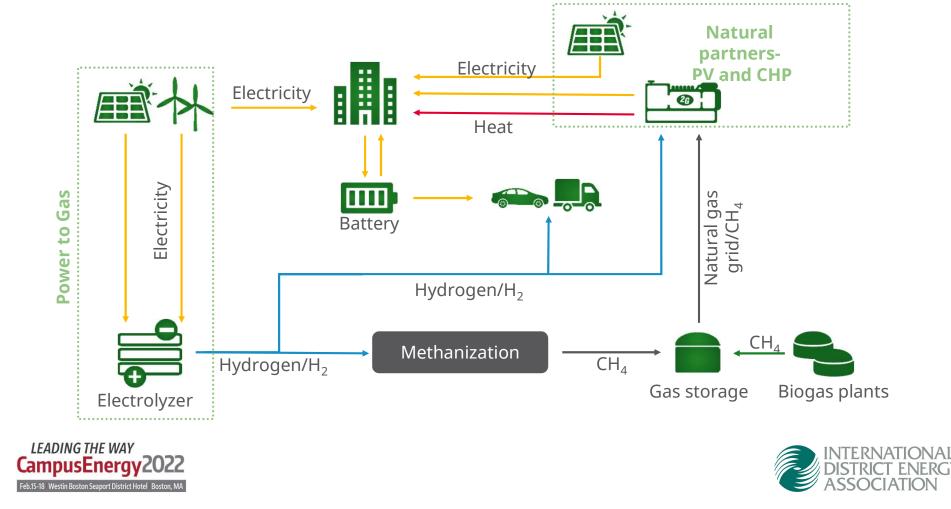
Enabling Net Zero in the USA: How do we get there?



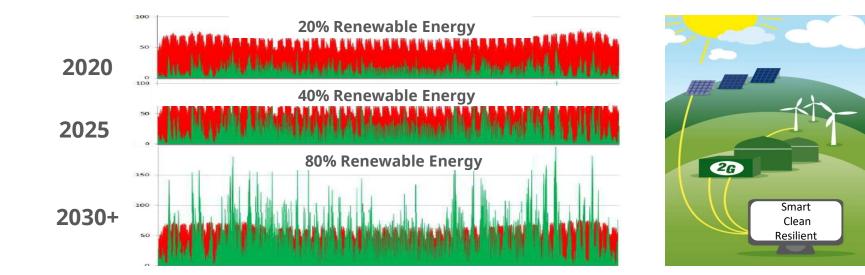
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CHP is the enabler for more intermittent resources





Balance the Net-Zero Equation faster and with less investment. CHP provides A backbone for more onsite renewables.







Global leadership in resilient renewable energy

- Founded 1995, and publicly traded.
- 7,500+ CHP systems
- in more than 55 countries worldwide
- >50% of fleet run on renewable fuels
- Innnovative R&D, finance, and service capabilites
- The world's first commercial 100% H2 CHP system







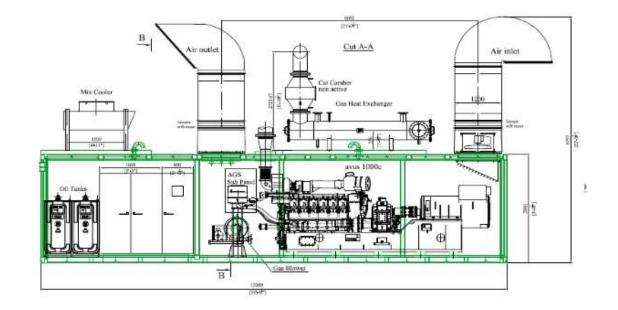


Natural Gas, Digester Gas, Landfill Gas, Flare Gas, Syngas & Hydrogen

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The 5 Design Considerations for CHP

1.Fuel2.Electrical3.Thermal4.Civil5.Emissions









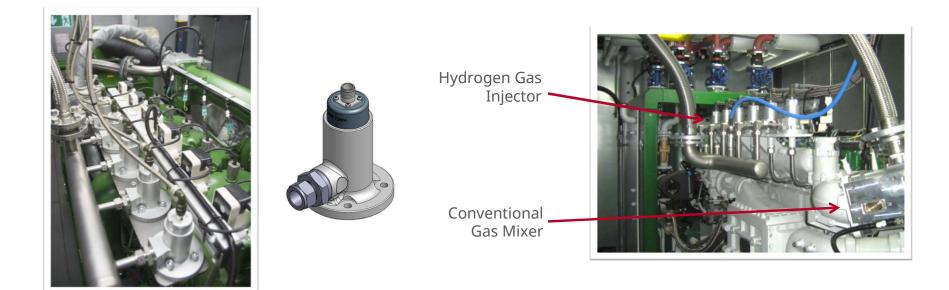
No other Technology has a larger range of Carbon Free Options

- 1. Biogas
- 2. RNG
- 3. Syngas
- 4. Renewable Propane
- 5. Hydrogen
- 6. Carbon Capture

2G Product Name:	Power Range:
Aura (Rich)	100 to 1,000 kWe
Agenitor(Lean)	100 to 1,000 kWe
Avus (Lean)	550 to 2,500 kWe



Fuel Flexibility Minimizes Risk

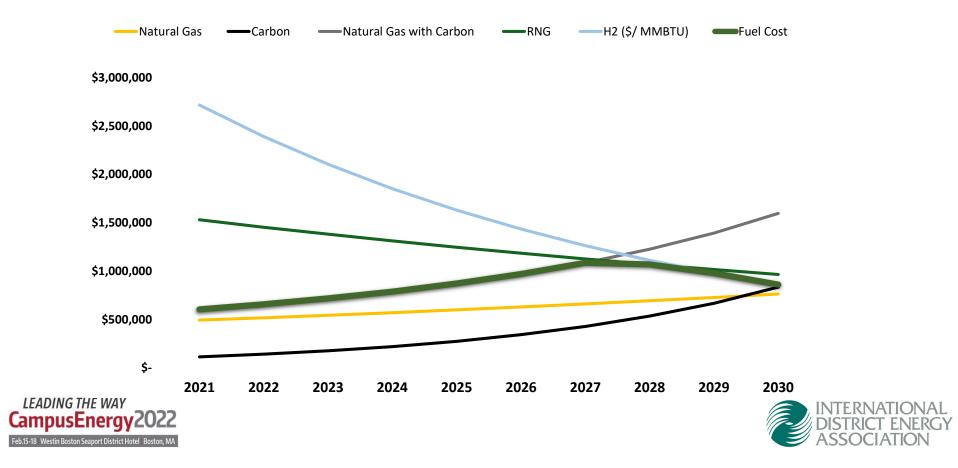


- Simple field retrofit makes 2G Systems future proof
- Full range (0-100%) of carbon free flexiblity: H2, RNG, Syngas or Biogas
- Top efficiencies Plug and Play- Microgrid Ready



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Long term fuel cost/carbon hedge – Lowest Cost – Least Risk



Community wide carbon Free Resiliency

City quarter deploys zero carbon trigeneration district energy system. Serving:

- 500 residential units
- University with 1,800 students
- Office buildings
- Bars and restaurants



There is only one manufacturer whose CHPs offer the right performance and can be operated with 100 percent hydrogen"

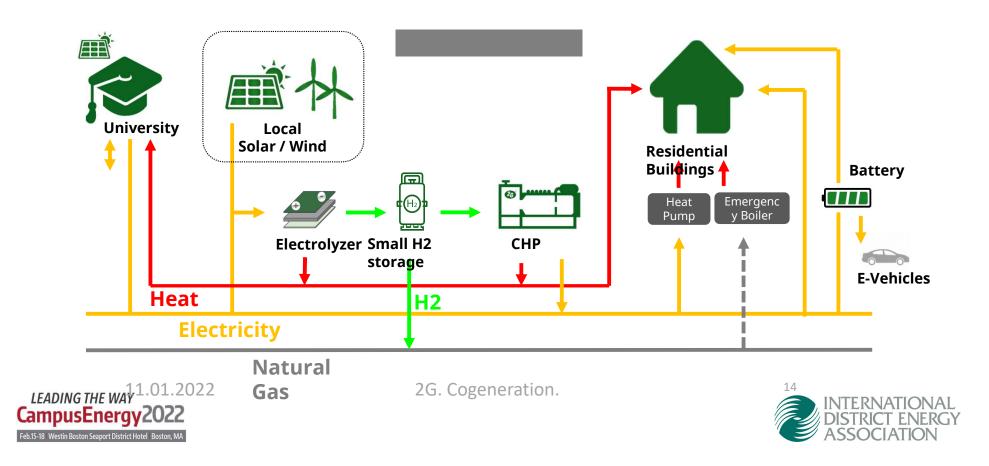
- Manuel Thielmann (Green Hydrogen GmbH)







Case Study: City of Esslingen



Green gas grid for decarbonized district energy on remote island

Green hydrogen to decarbonize heat and power at a remote island airport

- 170kWe Hydrogen CHP coupled to airport's existing heating system to meet the building's heating and power requirements
- Doosan Babcock Project EPC and Supported by Scottish Government



Nearly a dozen of these project executed around the globe....







H2 enabled CHP is the Lowest cost/Least risk net-zero technology

- Lowest cost per kWh (low capital, high efficiency)
- Full range of mixtures and widest fuel optionality
- Proven global performance on 0-100% RNG and/or $\rm H_2$
- Turn up and turn down start and stopload follow – black start-island
- Rapid project delivery
- Guaranteed long-term resilience













Kurt West VP of Business Development

2G Energy Inc

