



FUEL CELLS AND MICROGRIDS

HOW RENEWABLE GASES CAN HELP DECENTRALIZE THE GRID



**VENKAT
VENKATARAMAN**

Executive Vice President of Engineering
Chief Technology Officer

OCTOBER 28, 2020

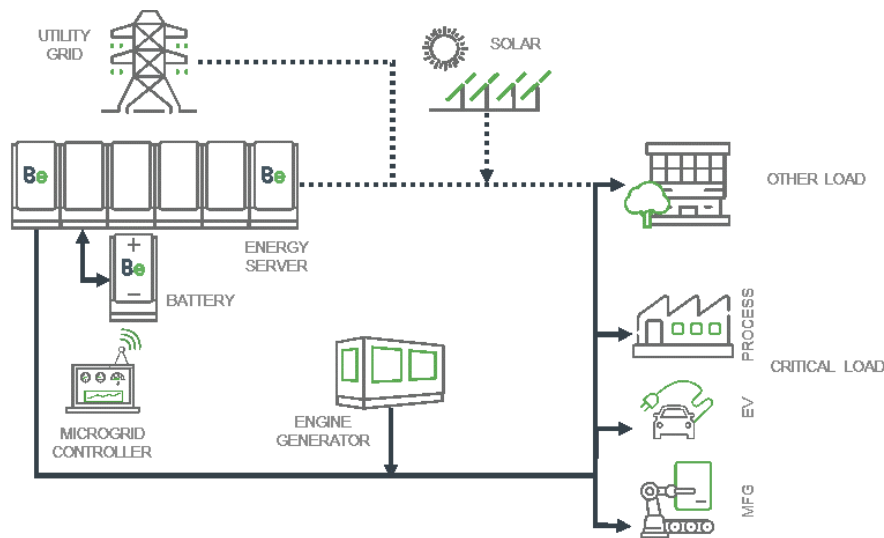
TODAY'S POWER GRID IS FAILING US

Bloomenergy®

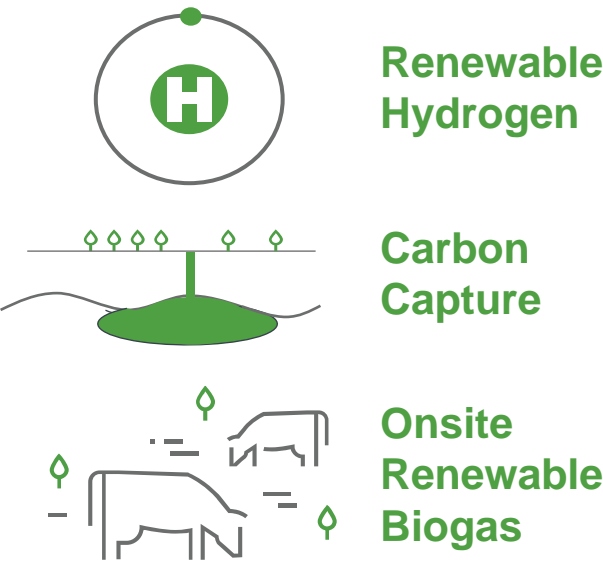


PLATFORM FOR DECENTRALIZED GRID

RESILIENT MICROGRIDS

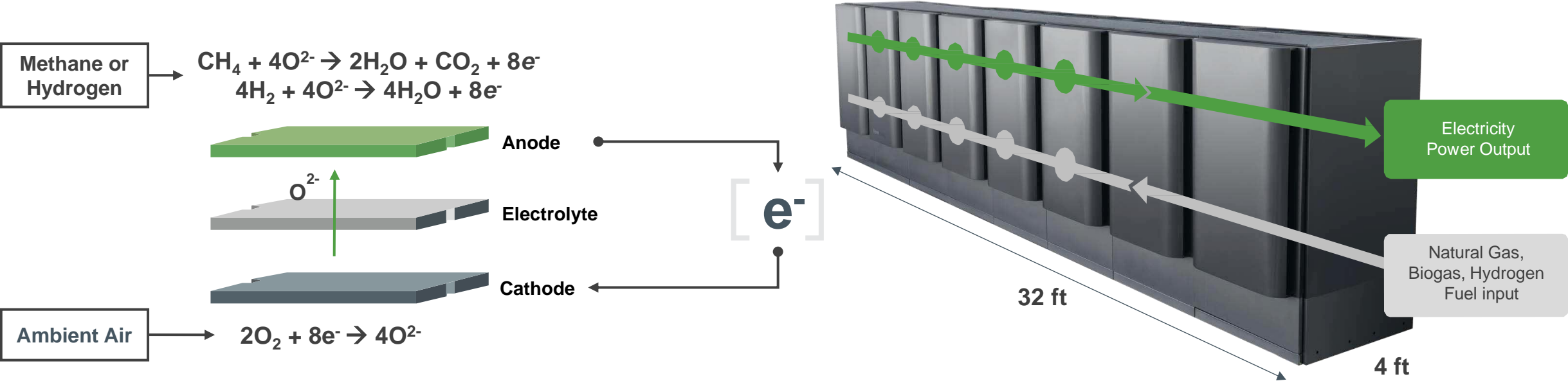


CARBON FREE

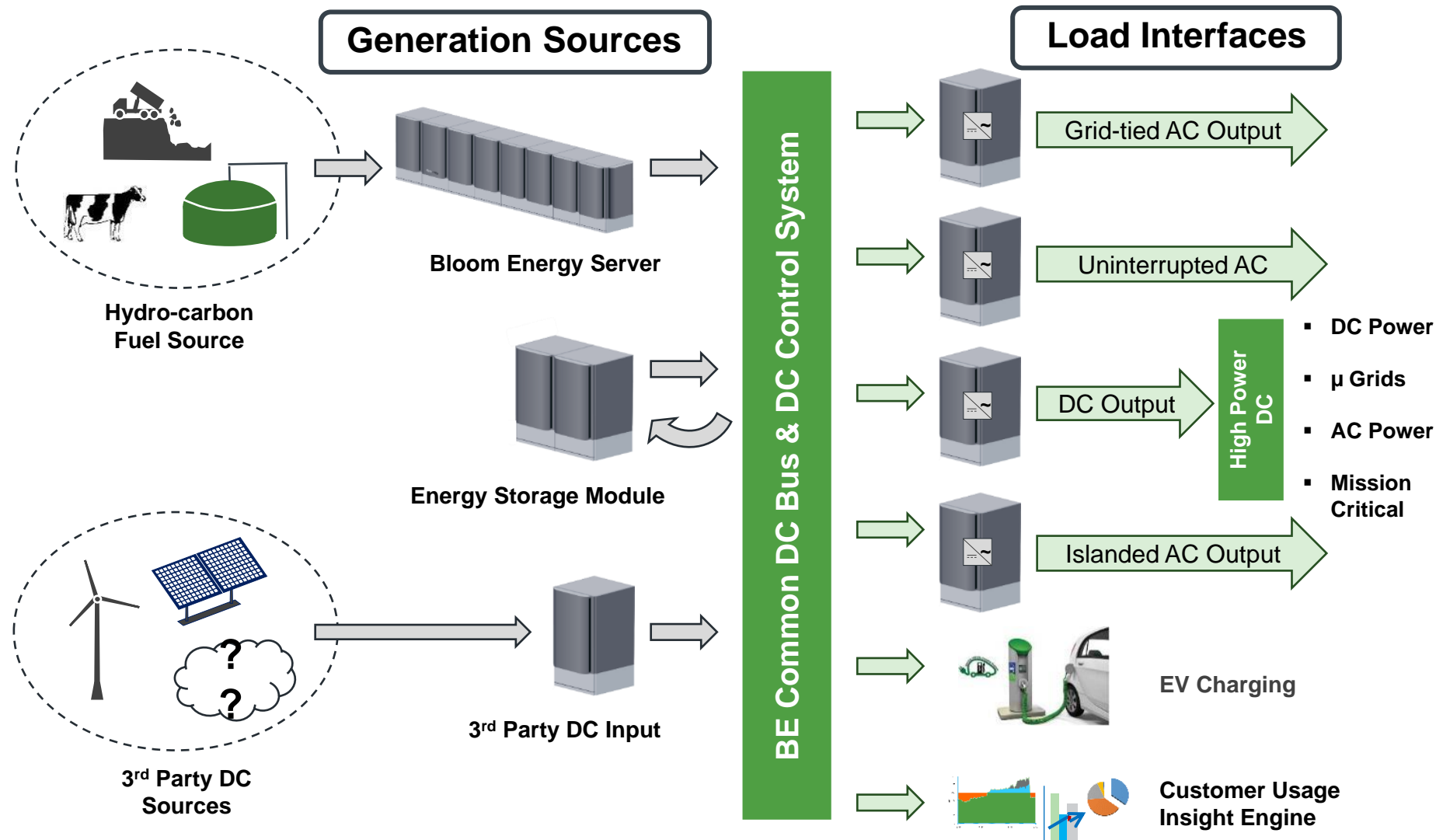


FUEL CELL OVERVIEW

Bloomenergy®

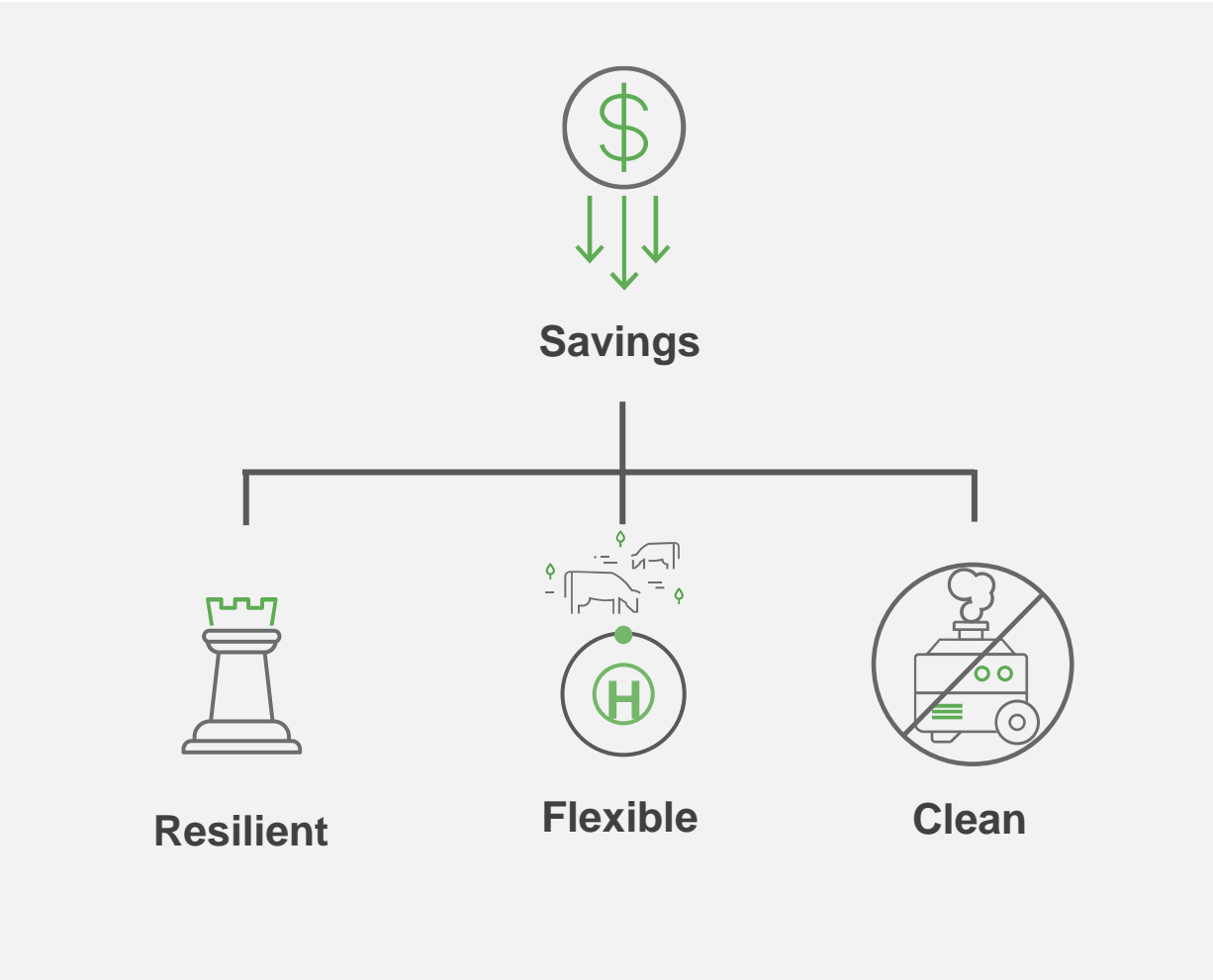


ENABLING ENERGY INTEGRATION



ENERGY PLATFORM BUILT FOR PROTECTION

OVER 700 SITES
100 MICROGRIDS DEPLOYED



BLOOM RAPID DEPLOYS

Bloomenergy®

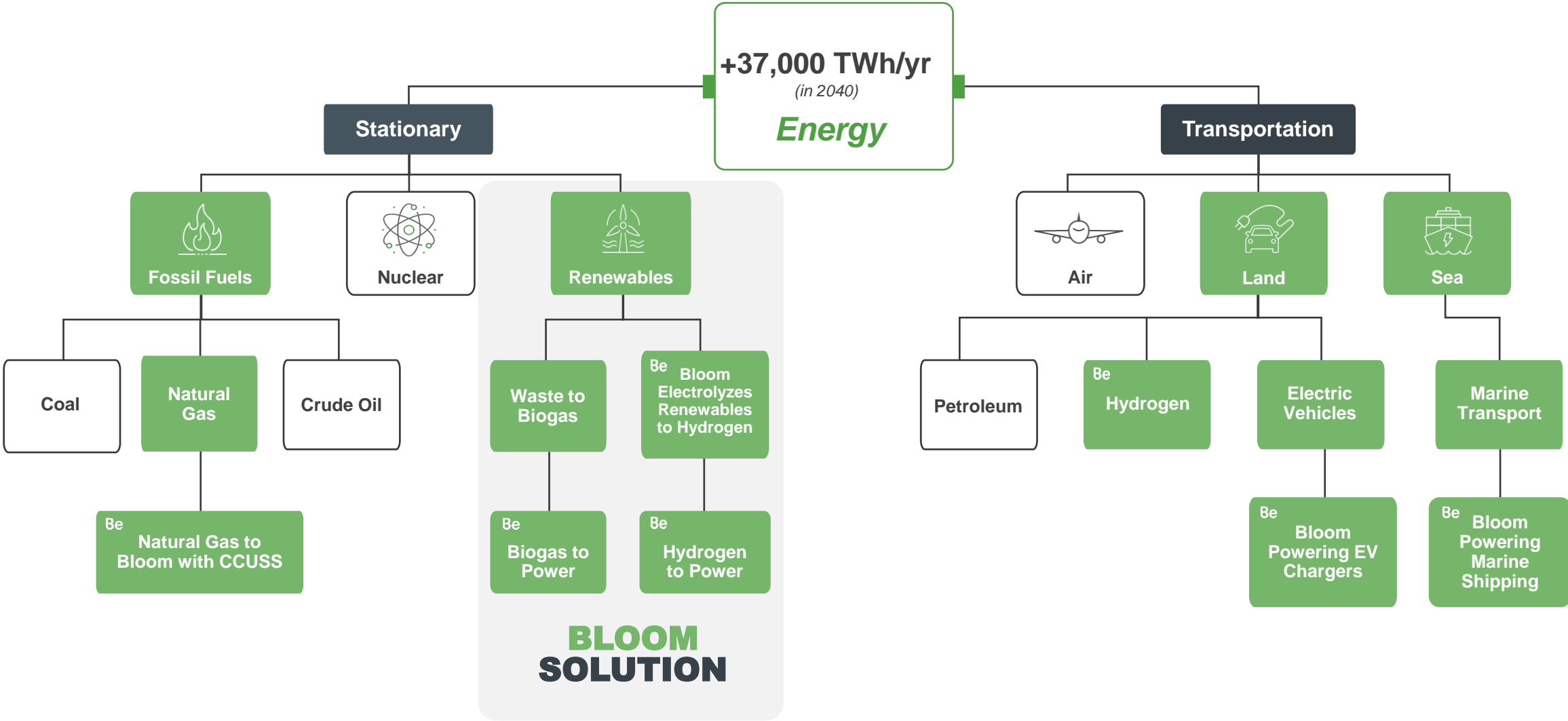


SLEEP TRAIN ARENA

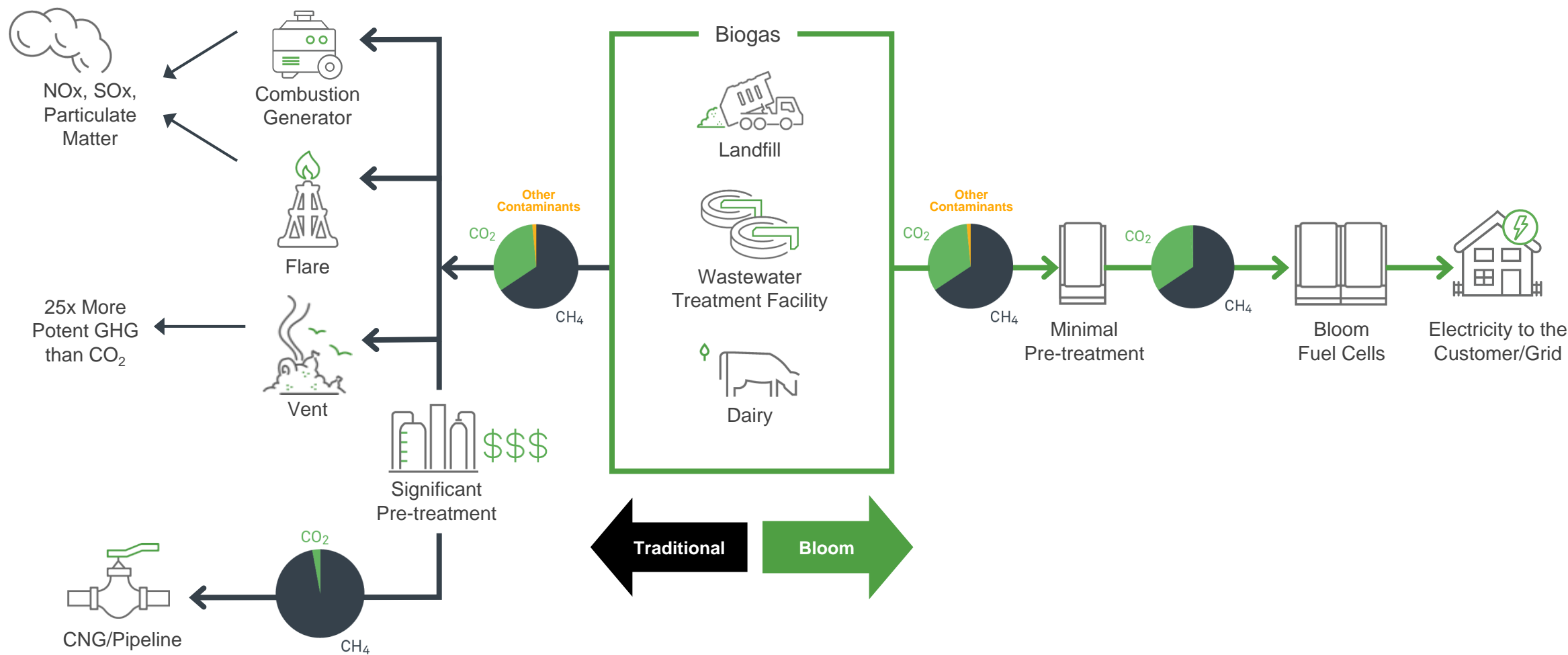
Deployed a
Rapid Microgrid
for a COVID19
patient care
facility in 5 days



ENERGY TRANSFORMATION

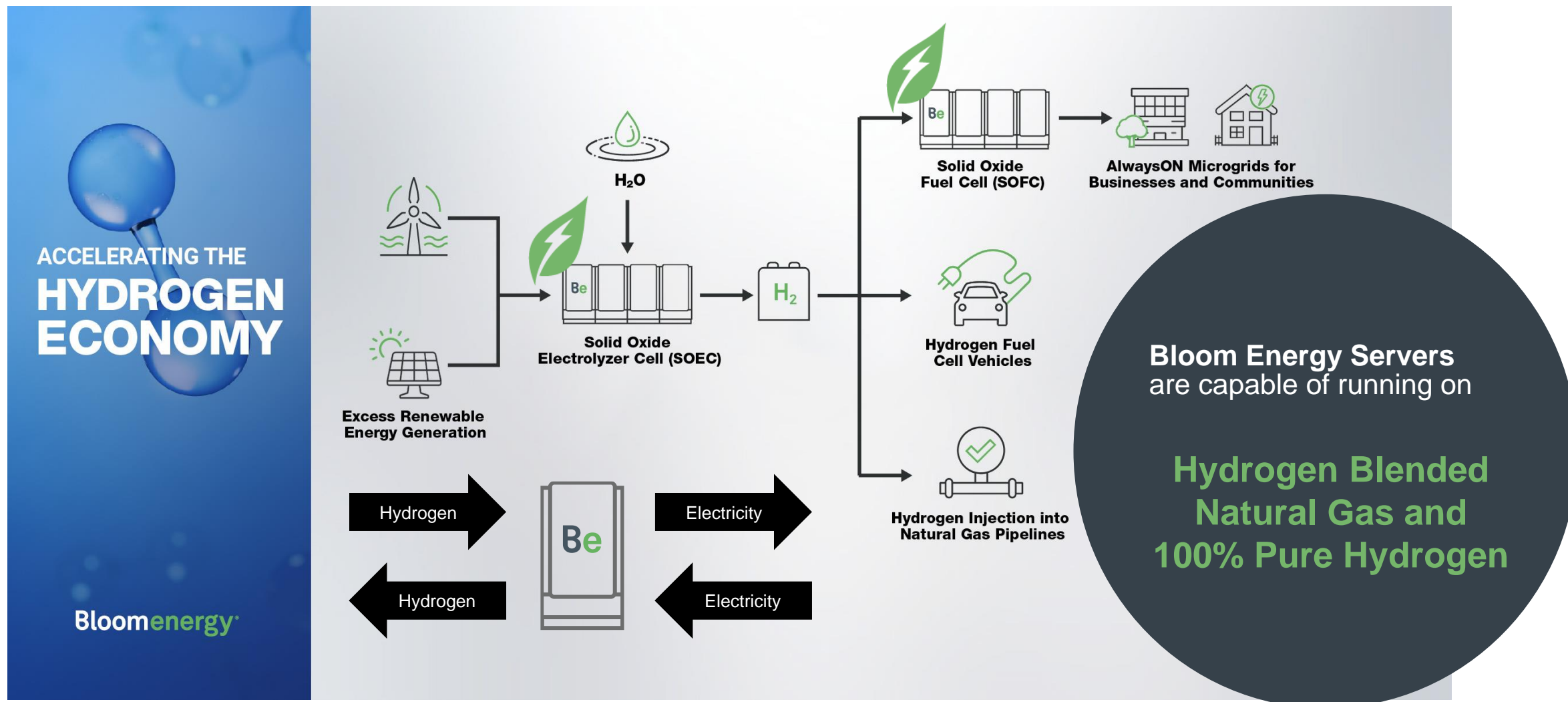


THE BEST USE OF BIOGAS



THE H₂ ENERGY SYSTEM

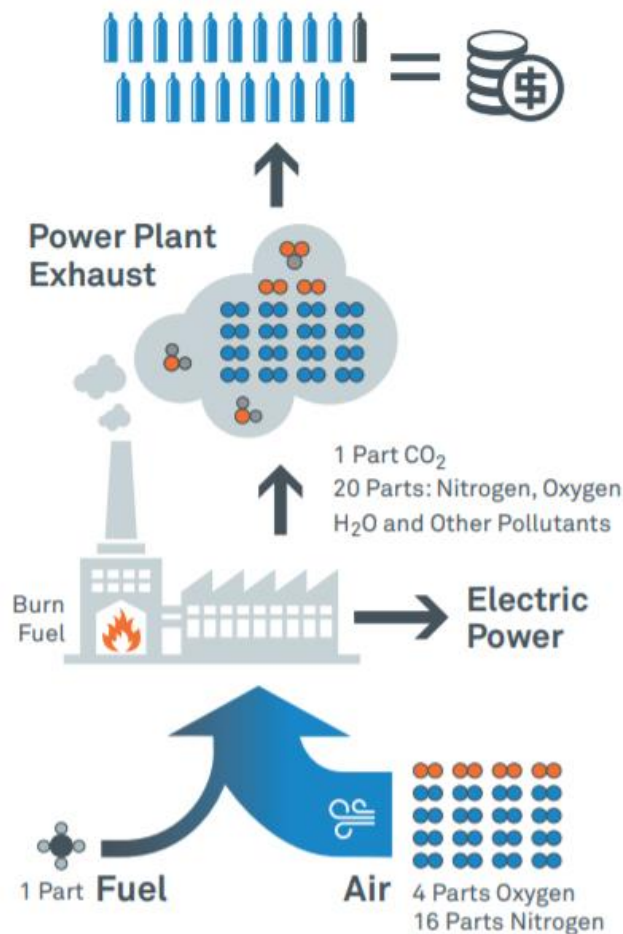
Bloomenergy®



COST-EFFECTIVE CARBON CAPTURE

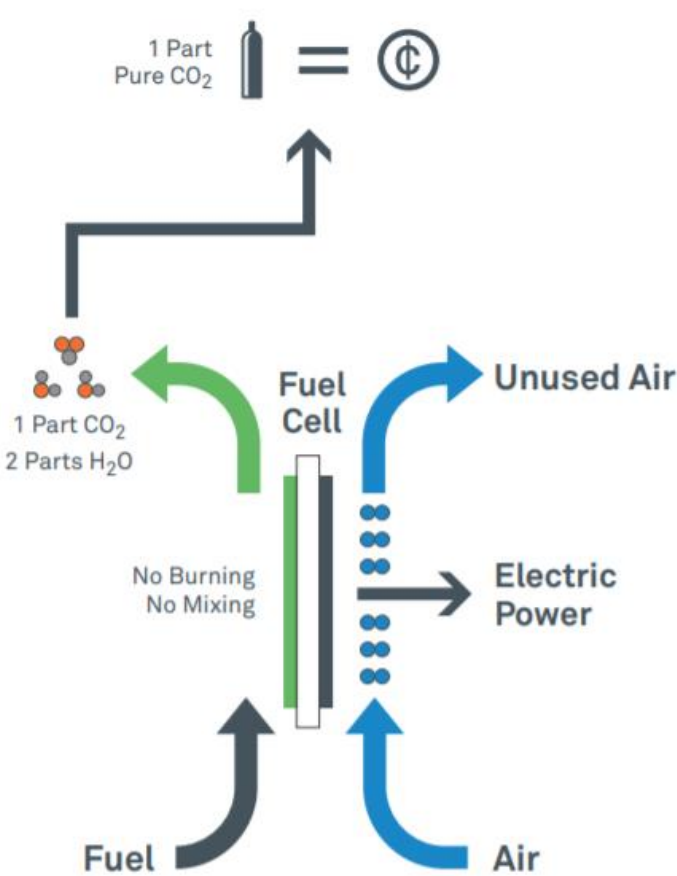
Conventional Power Plant

Impractical and expensive to store 21 parts or to separate 1 part CO₂ from nitrogen and oxygen



Bloom Fuel Cell System

Easy and inexpensive to separate CO₂ from water



A photograph of a modern building's exterior featuring a series of vertical solar panels. The panels are dark and reflective, arranged in a long row that recedes into the distance. A metal railing is visible in the foreground, and some green foliage is on the right side. The Bloomenergy logo is centered over the panels.

Bloomenergy®