Data Center Overview

Grimes Carbon Tech (GCT)

A net negative green technology company changing the world

January 2025

Increasing efficiency of energy production

Reliable, green, baseload power for Data Centers

Grimes CarbonTech (GCT): Developer and Operator

Providing cheap, distributed, on-demand green energy to data centers

Energy demand for data centers can't be met

- 4 "Miamis" worth of energy required by 2030 for data centers alone
- Renewables can't provide enough reliable electricity
- New renewables projects take 4+ years to develop.
 They only work when the wind is blowing or the sun is shining
- Natural gas, coal and nuclear are too expensive to build
- Transmission lines and gas pipelines require trillions of dollars of investment to bring energy to data centers

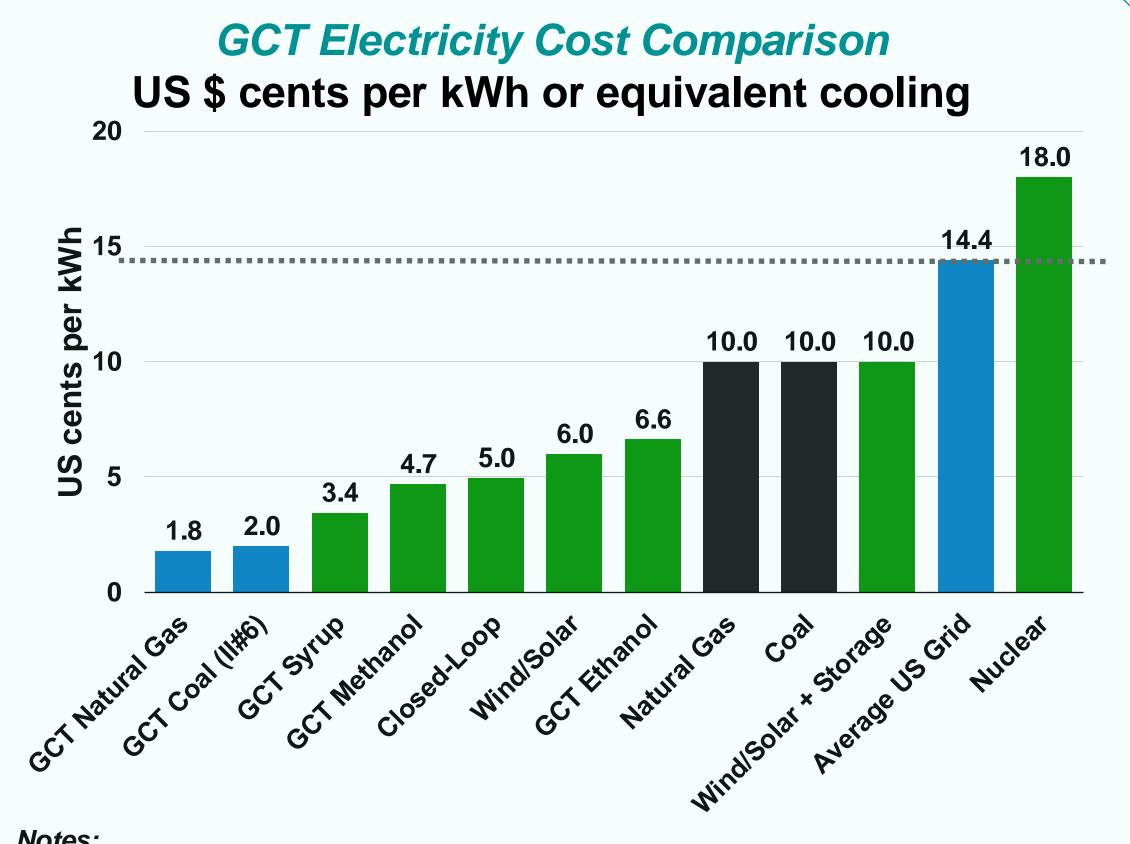


Data Centers need reliable energy onsite and on-demand

GCT: US Hydrogen market expected to grow by 70% by 2052 GCT energy is only cheap green energy solution for Data Centers

GCT's Cheap, Distributed Power

- Cheap, on demand (reliable) green energy
- Energy produced directly on-site no need for transmission or distribution systems
- Scales quickly (add containers) to meet Data Center demands
- Data Center waste heat recovered and used to drive cooling (CCP) reducing energy by 50%
- Requires limited space (1,100 racks per acre). 76MW of power fits on one acre of land

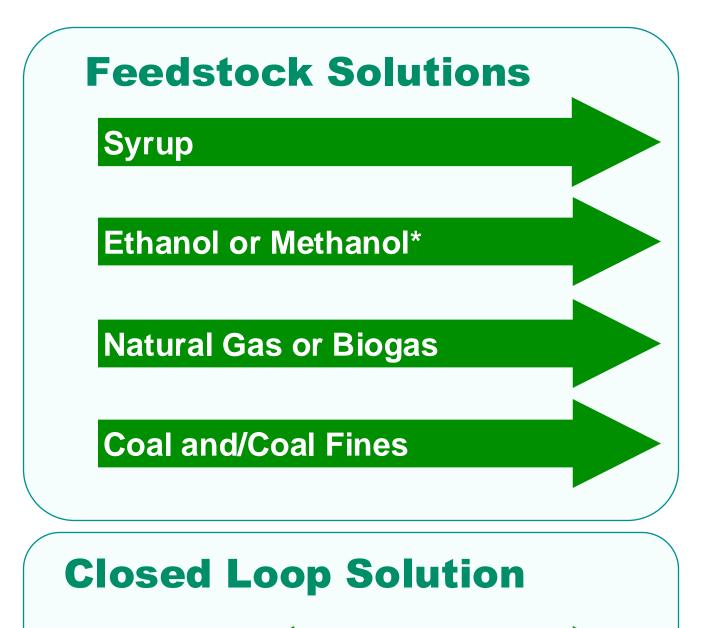


Notes:

- GCT energy is dispatchable (always available), unlike intermittent renewables
- GCT costs reflect the reduction in demand enable by waste heat recovery
- GCT costs DO NOT INCLUDE eligible tax credits & sale of CCR oxygen co-product
- Only US Average includes transmission & distribution costs (T&D
- Other competing costs would be higher with T&D included

CAPER creates affordable Green & Blue electricity from multiple feedstocks

Electrical efficiency can increase as much as 50% over conventional plants



*Methanol can be made from renewable electricity by recycling the carbon in a closed-loop

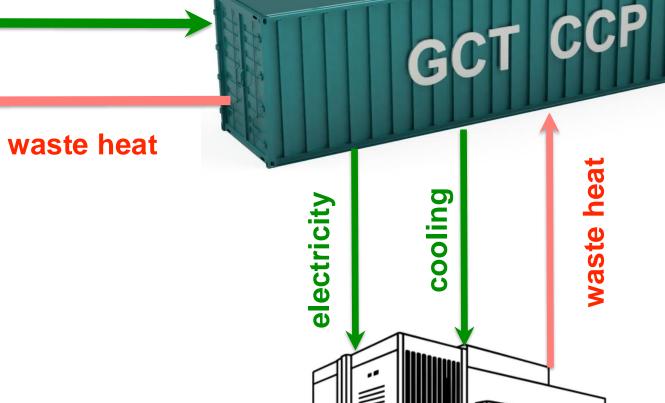


Combined Cooling & Power Module reduces energy required by 50% reducing cost to

2.5 to 5.0 cents/kWh equivalent

76 MW/acre compared to ~0.25MW for solar





hydrogen

Prefabricated shipping containers

Electrolyte - Methanol

- Never produce bigger units just produce more easy to scale
- Multiple, readily available, logistic-compatible feedstock options
- No need for grid connection. Uses waste heat from servers.
- Electrochemical reaction creates hydrogen, which can generate electricity with fuel cells, turbines or engines

Wind &

Solar