

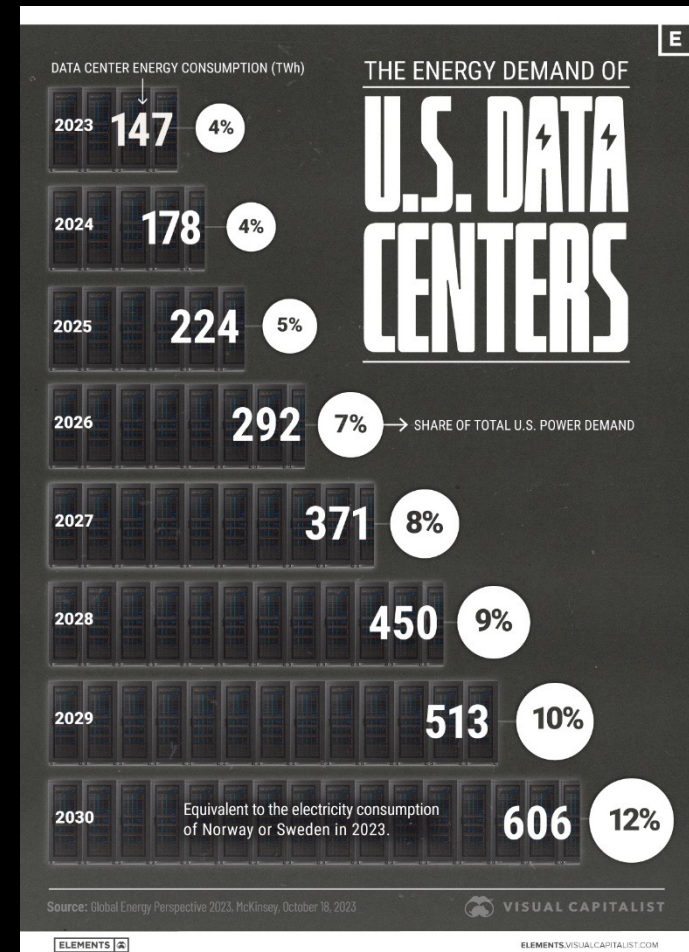
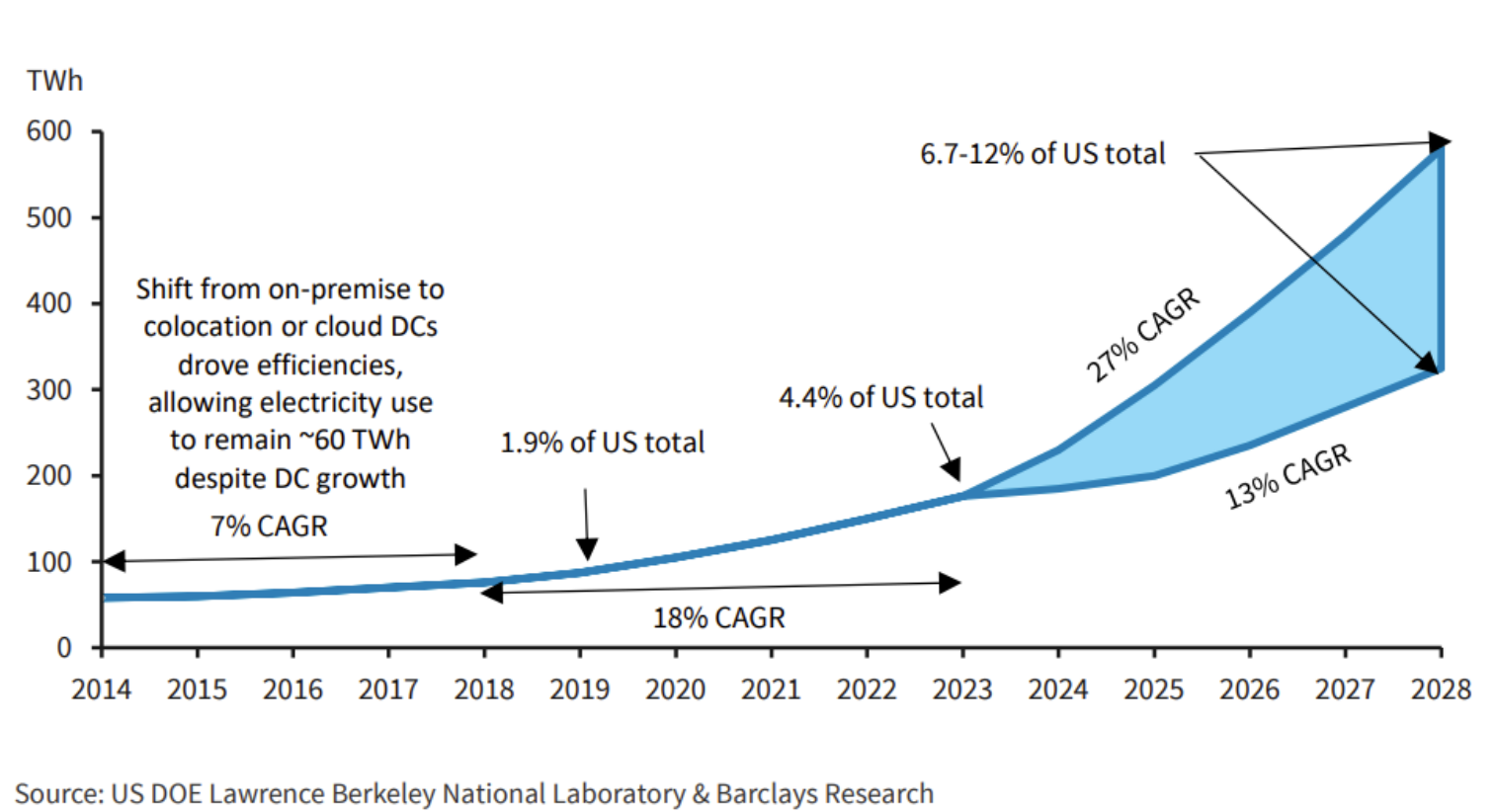


Energy is the First Principle of the AI Ecosystem



The U.S. Department of Energy predicts that starting from 2023, the electricity demand of U.S. data centers (excluding cryptocurrency) will increase by approximately 13% to 27% annually. By 2028, it will reach 325 TWh to 580 TWh (1 terawatt - hour = 1 billion kilowatt - hours), accounting for 6.7% to 12% of the total U.S. electricity demand. According to this forecast, the electricity demand of U.S. data centers is expected to grow 2 to 3 times from 2023 to 2028.

FIGURE 1. US DOE forecast for US data center electricity demand



Foundational AI Evolution

Reasoning AI



HUMANITYAI



Physical AI



Agentic AI



Perception AI



CUDA-Recon
CBCT
FB Protection
Monte Carlo



+Energy Generation

Top-tier global leader in polysilicon and solar technologies, defining the cost of energy.

+Energy Storage

Leading integrated energy storage systems with strong grid-scale deployment capability

+Intelligent Energy Consumption

AI-driven energy systems including virtual power plants (VPP) and grid optimization

+Energy Infrastructure for Physical AI

GCL provides the critical energy infrastructure that enables AI to act in the physical world.

AI-driven Energy Scheduling

•Slide content courtesy of NVIDIA presentation.



World's Leading AI Computing Platform
Full-Stack Acceleration
Turning Computing into Intelligence



Global Integrated Energy Provider
Zero-Carbon Power Infrastructure
Turning Energy into Power & Return

Computing → Intelligence → Token → Power → Return

AI Factory = Computing × Power → Exponential Return

**WIND POWER PLANT -
CLEAN ENERGY GENERATION**

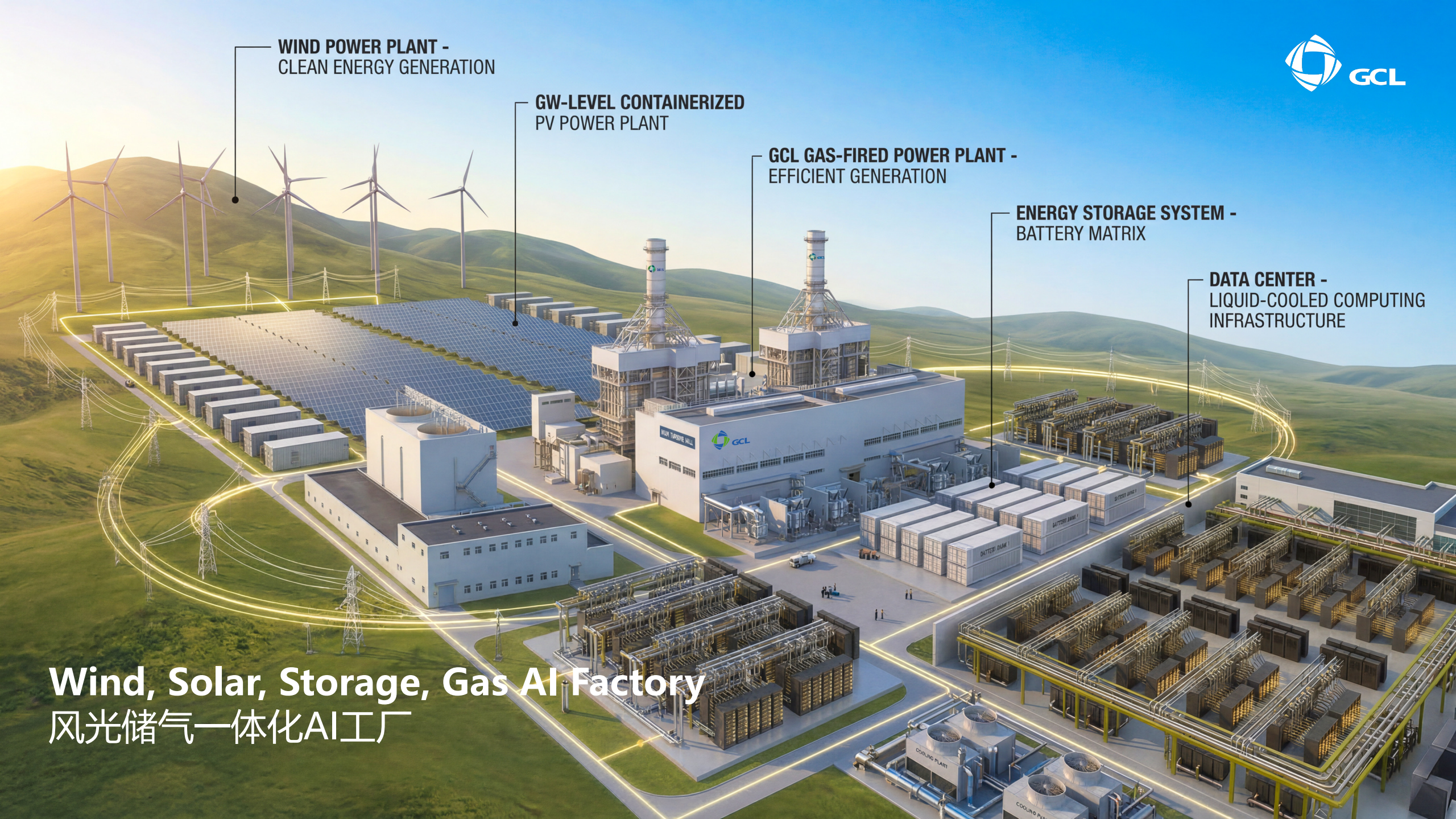
**GW-LEVEL CONTAINERIZED
PV POWER PLANT**

**GCL GAS-FIRED POWER PLANT -
EFFICIENT GENERATION**

**ENERGY STORAGE SYSTEM -
BATTERY MATRIX**

**DATA CENTER -
LIQUID-COOLED COMPUTING
INFRASTRUCTURE**

Wind, Solar, Storage, Gas AI Factory
风光储气一体化AI工厂



Powering AI: GCL Global Energy Blueprint

