

1. Offtake Agreements

Bank of America puts a number on the shortfall that keeps lenders awake. Over the next five years the United States needs more than 230 GW of new generating capacity, yet utilities plan to add only about 93 GW of accredited supply, a gap above 100 GW, with data centers alone adding roughly 125 GW of load (BofA via Utility Dive). In that math, an unbuilt utility is not the asset. A contract for delivered power is.

That is why Flux Core leads every project with a signed offtake position. We hold a Memorandum of Understanding for 50 to 100 MW of demand and keep opening capacity to neoclouds, enterprises, hospitals, universities, national labs, and AI platforms. A diversified demand book is what a lender underwrites, because contracted revenue, not square footage, makes a megawatt bankable.

Deliverability is the other half. Each 1MW Nexus deployment comes online in three to six months and runs power agnostic on stranded gas, solar with battery storage, or a grid tie, so a commitment never stalls behind a multi year interconnection request. Closed loop liquid cooling recirculates its fluid and draws zero outside water, removing the make up water permit that so often delays a deal.

Need guaranteed AI capacity, or want to anchor a site as an offtake partner? Contact Flux Core to see which megawatts remain open to commit.

2. Bare Metal Provisioning (Powered Shell up to 1.3MW IT Load)

One AI rack can now pull as much electricity as roughly 80 to 100 homes. Gartner projects cooling electricity alone rising 22.6 percent to 195 TWh in 2026, a signal that thermal load, not floor space, is the real design constraint (Gartner via Tom's Hardware). A shell engineered for a few kilowatts per cabinet cannot survive that math.

Flux Core rebuilds the shell around density. We deliver a bare metal environment provisioned for up to 1.3MW of IT load, ready for the hottest GPU systems. Configuration 2 supports H200 and B200 class racks at roughly 40 to 60 kW, and Configuration 3 supports GB300 NVL72 class racks at roughly 130 to 140 kW, all at Tier III design reliability.

Density is a cooling problem first. Our closed loop liquid cooling recirculates a single fluid and consumes zero outside water, so there are no cooling towers, no evaporative loss, and no make up water permit to cap the hall. The shell is also power agnostic across stranded gas, solar with battery storage, and grid power, which is how a 1.3MW environment reaches edge and constrained sites conventional colocation avoids.

Provisioning dense GPU racks on a deadline? Ask Flux Core about a liquid cooled powered shell ready for up to 1.3MW.

3. Power as a Service

Speed to power now carries an open price tag. On site and behind the meter power is running roughly an 80 percent premium to the grid, about 140 to 150 dollars per MWh against near 80 dollars, and the big three heavy duty turbines are sold out (Matter Fact). Paying that premium is one option. Not paying it is better.

Flux Core delivers Power as a Service so you buy reliable power for your compute as a clean operating expense while we finance, own, and operate the generation. The market is validating the model at scale: Brookfield and Bloom Energy expanded their fuel cell financing partnership from 5 billion to 25 billion dollars, covering up to 1 GW of on site fuel cells across an AI data center portfolio (Construction AI Brief).

Because Flux Core is power agnostic, the system under your load can be stranded gas, solar paired with battery storage, a hybrid microgrid, or a grid connection, sized to your ramp. Closed loop liquid cooling with zero outside water keeps efficiency high and takes the facility off local water supply, which is decisive in the low cost power regions where compute wants to live.

Told to bring your own power? Ask Flux Core how Power as a Service delivers speed without the premium.

4. Oil and Gas Well Deployments

The pipeline story has a twist worth reading closely. United States flaring actually fell 7 percent to about 5 bcm in 2025 as new Permian takeaway came online, yet global flaring rose for a third straight year to 167 bcm, the highest since 2019, wasting roughly 54 billion dollars (World Bank 2026 Flaring Tracker). Pipelines rescued the big flares. The molecules at small and remote wells were left behind.

Those are exactly the molecules Flux Core puts to work. We deploy containerized data centers at the wellhead and convert stranded and associated gas into compute revenue on site, with no midstream takeaway required. Gas that would be flared, vented, or discounted becomes fuel for generation that powers high margin compute, a new revenue line off an existing asset.

Producing basins are water short, which is why our closed loop liquid cooling uses zero outside water. The unit trucks to a remote pad, runs power agnostic on wellhead gas today with a path to renewables or grid later, and relocates as the field's production curve moves.

Sitting on gas the pipeline will not take? Flux Core turns it into compute. Let us scope a wellhead deployment on your acreage.

5. Zero Carbon Footprint

Carbon is the headline, but water is the line nobody reports. A single large AI data center can draw up to 5 million gallons a day, United States data centers directly consumed 17.4 billion gallons in 2023, and indirect water use through power generation ran about 12 times higher, roughly 211 billion gallons, with demand peaking during the heatwaves when communities are already short (LBNL via ITIF; Al Jazeera).

Flux Core engineers that draw out at the source. Our closed loop liquid cooling recirculates its fluid and consumes zero outside water, removing evaporative loss and the parasitic draw of air cooling. The approach is now industry validated: NVIDIA introduced a closed loop liquid cooling design that pushes on site water toward zero (Business Today).

Generation is engineered too. Where the site allows, Nexus units run power agnostic on renewable solar paired with battery storage, displacing fossil power. Where gas is needed, we prioritize stranded and associated gas that would otherwise be flared, reducing emissions already happening rather than adding new load to a strained grid.

Want infrastructure that survives a real water and carbon audit? Ask Flux Core to walk the full stack.

6. Sovereign AI, Sovereign Data

Sovereignty stopped being a slogan the moment it got funded. The sovereign AI infrastructure market is about 24.8 billion dollars in 2026 and projected to reach 301.6 billion dollars by 2040, with spending expected to pass 100 billion dollars in 2026 alone. Commitments back it up: the United Kingdom has pledged over 1 billion pounds, Israel 30 billion dollars to national AI sovereignty, and Adani 100 billion dollars in renewable powered AI data centers (Seedscope; Let's Data Science).

Flux Core places dedicated GPU compute on the customer's own ground, inside a perimeter they control end to end. Each Nexus unit is self contained and deployable, so a secure facility, a research enclave, or a forward site can stand up sovereign compute without routing sensitive workloads through a shared cloud. Residency, classification, and air gap requirements are met by the architecture itself.

Data independence rests on power independence. Because the platform is power agnostic, it runs on stranded gas, solar with battery storage, or local grid power, so the mission never depends on a fragile utility tie. Closed loop liquid cooling with zero outside water lets dense clusters run where water is scarce.

Standing up national or mission owned AI? Talk to Flux Core about sovereign compute on your own terms.

7. College and University Data

Research cannot wait in a queue, and the queue keeps getting longer. Data centers now account for 94 percent of PJM peak load growth through 2030, crowding out every other request, and during July's heatwave day ahead power leapt from 44 dollars to 436 dollars per MWh, nearly 900 percent (Matter Fact). A campus substation upgrade behind that demand can outlast a grant cycle.

Flux Core brings dedicated research compute directly to campus without waiting on a multi year power upgrade. A containerized Nexus deployment delivers up to 1MW of GPU capacity for HPC, model training, and research computing, sited on institutional ground and live in three to six months. Research computing directors keep sovereign control of sensitive datasets, IRB governed work, and grant deliverables.

It fits how campuses operate. Power agnostic means the cluster can draw on existing grid capacity, on solar with battery storage, or on site generation, aligning with tight budgets and sustainability pledges. Closed loop liquid cooling with zero outside water keeps utility costs and environmental reporting clean.

Research ambitions outrunning your campus power and the grid queue? Ask Flux Core about dedicated university AI infrastructure.

8. Powered Land Lease Rates

A powered land lease rents a bottleneck that is disappearing. A recent quote put 4MW of powered land at 3 million dollars a year, 750,000 dollars per MW, with electricity billed separately on top, all to hold a spot in an interconnection queue before a single GPU is installed. The scarcity behind that rent is already eroding.

The proof is in the pipeline. There are 59 announced behind the meter sites totaling about 90 GW, more than a quarter of planned United States data center capacity, and the behind the meter power market is projected to grow from 18.4 billion dollars in 2025 to 198.6 billion dollars by 2034 (Matter Fact; Research Intello). Brookfield and Bloom Energy scaling on site fuel cell financing to 25 billion dollars shows how fast self generated power is becoming the default (Construction AI Brief).

Flux Core stands on the other side of that trade. We understand power, so we develop our own opportunities rather than rent someone else's bottleneck. Our deployments are power agnostic across stranded gas, solar with battery storage, and grid power, cooled by a closed loop liquid system with zero outside water. No ground lease. No queue. No electricity pass through markup.

Stop renting a power problem that is about to reprice. Talk to Flux Core about owning the energy and monetizing the data.