

Flux Core Data Systems and Energy

1. Offtake Agreements

Investors no longer ask how many GPUs you can install. They ask who is paying for them. A signed offtake is the difference between a fundable project and a stranded capital plan, and Flux Core leads every deployment with one. We currently hold a Memorandum of Understanding for 50 to 100 MW of demand, and additional offtake capacity is open for commitment.

Our demand book is deliberately spread so no single sector dictates the timeline: neoclouds reselling GPU hours, enterprises running private models, universities and national labs, hospitals, municipalities, and AI platforms scaling inference. Each partner locks capacity inside a containerized Nexus deployment that comes online in months, cooled by a closed loop liquid system that draws zero outside water.

Deliverability comes from being power agnostic. That reserved capacity can sit on stranded gas, on solar paired with battery storage, or on grid power, so a commitment never stalls behind a multi year interconnection request.

Need guaranteed AI capacity, or want to anchor a site as an offtake partner? Reach out to Flux Core to see what megawatts remain open.

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

Twelve to twenty four months. That is how long a conventional powered shell takes to go from lease signature to a rack you can actually energize. Flux Core compresses that to a matter of months by delivering a bare metal environment provisioned for up to 1.3MW of IT load, pre engineered for the densest AI and GPU workloads.

Density is a cooling problem before it is a power problem, and we solve it up front. Our closed loop liquid cooling recirculates a single fluid and consumes zero outside water, eliminating cooling towers, make up water permits, and the evaporative losses that cap traditional halls. Cabinets run hot chip dense at Tier III reliability, and you drop in your own hardware or lease ours.

The shell is power agnostic. Whether the site offers stranded natural gas, renewable solar with battery storage, or an existing grid tie, Flux Core builds the matching power path, which is how a 1.3MW environment reaches edge and constrained sites conventional colocation avoids.

Deploying high density GPUs on a timeline? Ask Flux Core about a ready powered shell up to 1.3MW.

3. Power as a Service

The utilities themselves are now telling data center developers to bring their own power. Interconnection studies stretch past five years in the largest markets, and the grid simply cannot absorb the load. Flux Core answers with Power as a Service: we finance, own, and operate the generation and distribution, and you buy reliable power for your compute as a clean operating expense.

There is no capital locked into generators, switchgear, or storage, and no project timeline held hostage by a utility queue. Because Flux Core is power agnostic, the system underneath your load can be stranded natural gas, solar paired with battery storage, a hybrid microgrid, or a grid connection, sized to your ramp and your location.

Thermal efficiency holds up alongside it. Closed loop liquid cooling with zero outside water keeps PUE low and takes your facility off local water supply, a decisive advantage in the arid, low cost power regions where compute wants to be. You pay a predictable rate while Flux Core monetizes the underlying credits and tax structures.

Told to bring your own power? Ask Flux Core how Power as a Service delivers it.

4. Oil and Gas Well Deployments

An operator in the Permian recently watched a year of associated gas go up the flare stack because no pipeline could take it. That molecule could have been running AI compute. Flux Core makes that outcome real by deploying containerized data centers at the wellhead and converting stranded and associated gas into compute revenue on site, with no midstream takeaway required.

The economics are direct. Gas that is currently flared, vented, or discounted becomes fuel for on site generation that powers high margin compute and token output, a new revenue line off an existing asset that also shrinks the flare and improves the emissions profile.

Water scarcity is the norm in producing basins, which is exactly 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 shifts.

Flaring gas you cannot move? Flux Core turns it into compute. Let's scope a wellhead deployment on your acreage.

5. Zero Carbon Footprint

A data center can advertise renewable energy credits and still burn fossil power around the clock. Flux Core rejects that accounting and engineers real reductions into the deployment, step by step.

Generation is the foundation. Where the site allows, Nexus units run on renewable solar paired with battery energy storage, displacing fossil power at the source. Where gas is needed, we prioritize stranded and associated gas that would otherwise be flared or vented, so the project reduces emissions already happening rather than adding new ones to the grid.

Then we close what remains. Avoided flaring value and carbon credit mechanisms are matched against the residual footprint to push net emissions toward zero. Cooling finishes the job: a closed loop liquid system using zero outside water removes evaporative loss and the parasitic draw of air cooling, holding PUE low so more of every watt reaches the GPUs.

Renewable first generation, flare remediation, carbon credits, and water free cooling, built in rather than bolted on afterward. That is a zero carbon claim that holds up under scrutiny.

Need infrastructure that survives a real carbon audit? Ask Flux Core to walk the stack.

6. Sovereign AI, Sovereign Data

Governments across three continents are now mandating that citizen data and national models stay inside their own borders. That legal reality has no answer in public hyperscale, and it is precisely where Flux Core operates. We place dedicated GPU compute on the customer's own ground, inside a perimeter they own from end to end.

Each Nexus unit is self contained and deployable, so sovereign compute can stand up in a secure facility, a research enclave, or a forward austere site without routing sensitive workloads through a shared cloud. Residency, classification, and air gap requirements are satisfied by the architecture itself, not by a vendor's contractual assurances.

Data independence rests on power independence. Because the platform is power agnostic, it runs on stranded gas, on solar with battery storage, or on 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 and infrastructure are scarce.

Sovereignty means owning the compute, the data, and the power as one. Talk to Flux Core about standing up sovereign AI on your terms.

7. College and University Data

Shared cloud credits run out in the middle of a training run, and the grant will not cover a re run at on demand rates. That is the trap higher education keeps falling into, and it is why 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 months. Research computing directors keep sovereign control of sensitive datasets, IRB governed work, and grant deliverables instead of metering hours against a public cloud bill.

It also fits how universities 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 campus sustainability pledges. Closed loop liquid cooling with zero outside water keeps utility costs and environmental reporting clean.

Research ambitions outpacing your campus power and cloud budget? Ask Flux Core about dedicated university AI infrastructure.

8. Powered Land Lease Rates — The Real Bubble

Do the math on a powered land lease and the story falls apart fast. A recent quote put 4MW of powered land at 3 million dollars a year, electricity billed separately on top. That is 750,000 dollars per megawatt every year to occupy land and hold a spot in an interconnection queue, before a single GPU is installed or a single token is served.

Here is what the market is missing. The AI buildout is not the bubble. Powered land as a service is the bubble. Landlords are writing decade long leases against a scarcity that is already eroding, and once behind the meter generation is the default, those rent rolls collapse. US behind the meter capacity is projected to exceed 40GW by 2028. When a developer can make power on site, a 750,000 dollar per MW ground lease is worth a fraction of the paper it is printed on. That is not an AI correction. It is a commercial real estate bubble, and it will pop.

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, renewable solar with battery storage, and grid power, and 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. Talk to Flux Core about owning the energy and monetizing the data.