

○ Sovereignty
by design.
Proof
by metrics.

opcore

Hyperscalers • AI Makers

Hyperscalers & AI Makers: Eliminating the Physical Bottlenecks of AI Scale

Deploying next-generation GPU clusters—from Nvidia H100/H200 and Blackwell GB200 series to custom ASICs—or expanding Tier 1 availability zones across Europe involves navigating three core physical constraints: **power availability** timelines, **thermal density management** without PUE degradation, and **native European data sovereignty**. As rack densities rapidly escalate beyond traditional air-cooling limits, standard facility architectures face unprecedented operational pressure.

At this scale, generic software-centric narratives fade behind operational realities.

The requirement is not passive colocation space or traditional, slow-to-build facilities, but an integrated engineering & construction model capable of mastering complex fluid mechanics, securing high-voltage grid connections, and delivering fast-track execution without compromising uptime SLAs. Legacy real estate models simply cannot adapt to the extreme power draws and dynamic cooling requirements of modern artificial intelligence workloads.

OPCORE approaches infrastructure strictly from an engineering perspective, purpose-built for high-density compute roadmaps. By controlling the entire development lifecycle—from site acquisition and high-voltage grid connection to proprietary BMS software and modular hardware design—OPCORE eliminates vendor dependencies and streamlines critical path execution.

For Hyperscalers scaling AI capacity, real time-to-market does not depend on chip delivery cycles, but on locking in high-voltage grid connections directly at the source. In major European FLAPD markets, grid capacity constraints have become the single greatest bottleneck to scaling infrastructure. Rather than relying on speculative grid allocations or uncommitted power reservations, OPCORE secures utility-backed capacity upfront: 730 MW of secured capacity under active construction and development across strategic sub-markets in the Paris region, offering long-term visibility and expansion guarantees up to 766+ MW by 2031. This massive, low-carbon power pipeline provides global tech leaders with the long-term scalability required to train, fine-tune, and deploy next-generation AI models with complete confidence.

France: Europe's Premier Landing Area for High-Density AI Infrastructure

As the EU's second-largest economy, France has firmly established itself as the top European destination for hyperscale deployments and AI factories, offering an ideal convergence of power, talent, connectivity, and climate:

Abundant Low-Carbon Power

EU's largest low-carbon power surplus (nuclear & renewables), offering competitive, predictable pricing for large-scale facilities.

Low Latency Premier Connectivity Hub

Two major interconnection hubs with Paris & Marseille : unique in the EU

Optimal Climate for Cooling

Temperate weather enables year-round free cooling, maximizing WUE for high-density GPU halls.

Leading AI Talent Pool

Home to Europe's top concentration of AI researchers and engineers, driving international AI investment.



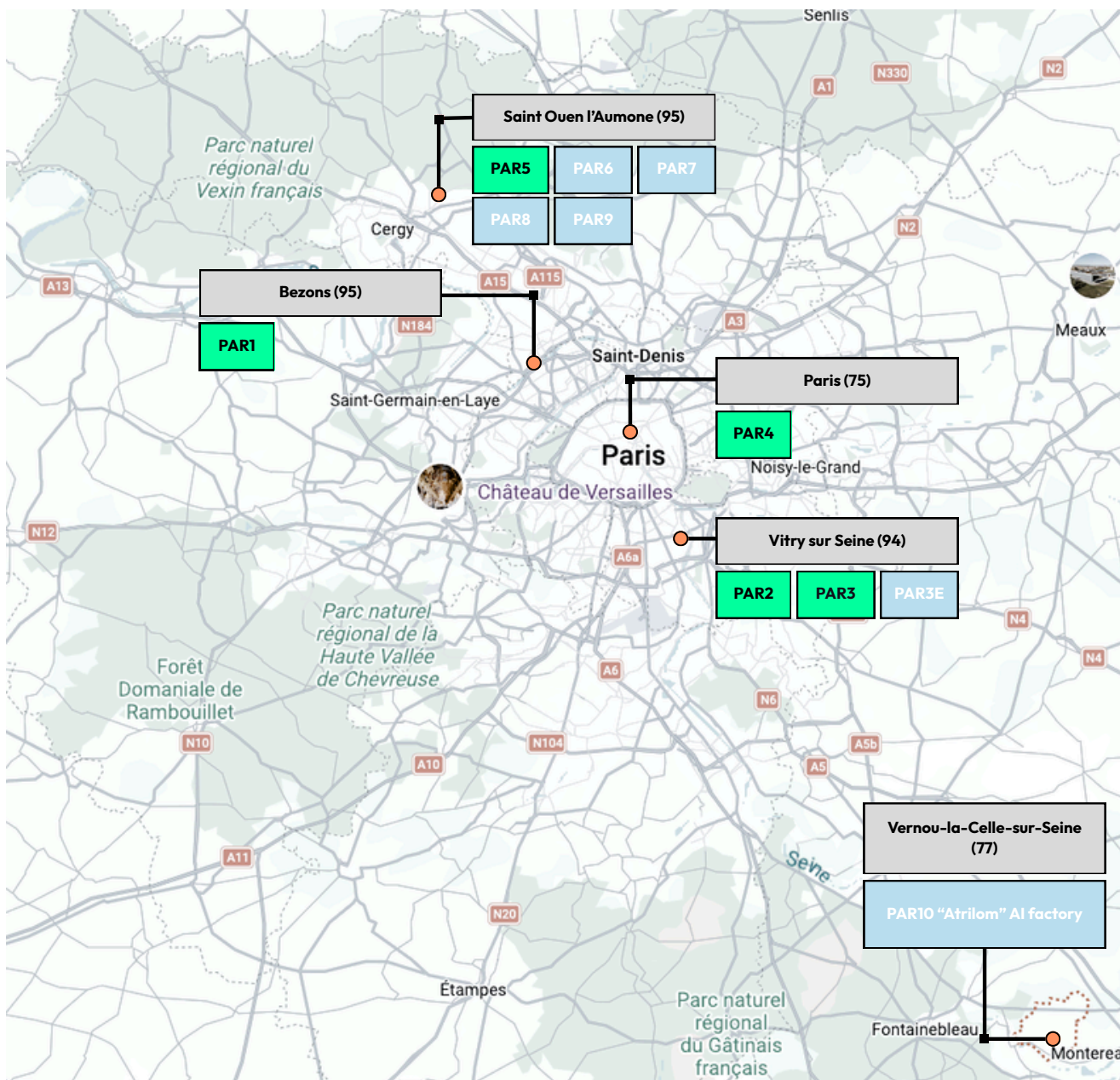
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One of the largest sovereign power pipeline in the Paris region

Strategically distributed across key regional hubs—from Bezons and Vitry-sur-Seine to Saint-Ouen-l'Aumône and Vernou-la-Celle-sur-Seine—our interconnected data center campus network delivers an aggregate 730 MW secured power pipeline engineered to scale seamlessly from enterprise colocation to massive, high-density AI clusters.



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Integrating high-density GPU pods often compromises legacy facility design, pushing average PUE levels beyond 1.5. OPCORE's engineering answer is the HDD (High Density Design) modular architecture.

○ 100% White Space Utilization

Externalizing electrical infrastructure (UPS) and cooling systems into 1 MW pre-engineered exterior modules leaves 100% of internal data hall space dedicated exclusively to compute and storage hardware.

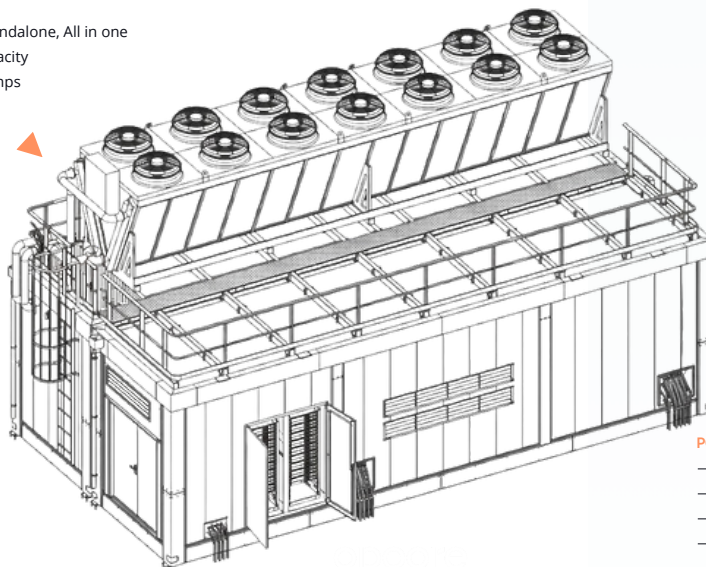
Parallelized Off-Site Manufacturing: Factory assembly and testing of technical modules occur concurrently with site civil engineering, compressing construction schedules and mitigating deployment risks.

○ Deterministic PUE < 1.2

Whether operating hybrid cooling setups or 100% Direct Liquid Cooling (DLC), the HDD architecture maintains a PUE below 1.2.

COOLING MODULE

- 36 sqm module (12mx3m) - Standalone, All in one
- Deliver 1MW net IT cooling capacity
- Includes chiller, dry-cooler, pumps
- Native DLC
- WUE 0.0003



POWER MODULE

- 36 sqm module (12mx3m) - Standalone, All in one
- Deliver 1MW net IT power capacity
- Includes UPS, transformer, MV & LV Switchboard
- Fire Resistant 2 hours

100 % in-house :
know-how, built to
the highest
standards.

We master end-to-end control of the value chain, driving strong operational gains.

What defines us?

- Dedicated Teams & Technical Experts
- 100% Internalized Project Management
- Construction Monitoring & Commissioning
- Rigorous Subcontractor Selection

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○ Full-Chain Integration & In-House Control Systems

Meeting critical SLAs requires complete oversight across the engineering and operational lifecycle.

→ Proprietary Technology Stack: Direct ownership of both hardware and software layers for ultra-critical physical security, access control, and Building Management Systems (BMS).

→ Workload-Tailored SLAs: Electrical redundancy and cooling configurations (including Hexacore 2N topologies) adapt to specific workload requirements—from training clusters to inference and core connectivity—eliminating unnecessary over-engineering.

○ Sovereign by Design: Native European Compliance

Data sovereignty is an operational prerequisite for European enterprise and public sector environments. Backed 100% by European capital (Iliad and InfraVia), OPCORE's corporate structure ensures total immunity from extraterritorial legal frameworks. Infrastructure operations align natively with GDPR and European cybersecurity frameworks.

While market discussions focus on AI applications, OPCORE designs and operates the physical thermal and electrical platforms that power them. Through guaranteed megawatt allocation, HDD modular design tailored for high rack densities, and full-chain European ownership, OPCORE delivers infrastructure engineered for scale.

About Opcore

Leading French digital infrastructure operator OpCore is a French operator specializing in the design, construction, and operation of next-generation data centers. For over twenty years, the company has been developing digital infrastructure designed to support the digital transformation of businesses, public administrations, and major tech players. The company maintains end-to-end control over its project value chain, from site identification to infrastructure operation. This integrated approach enables OpCore to design high-performance, scalable digital campuses built to integrate sustainably into their environment.

To learn more about OpCore, please visit opcore.com or follow us on [LinkedIn](#).



Modules Opcore HDD
1 MW
PAR3-Ext.