TECHNICAL BROCHURE

SHARE NET

AI Infrastructure & Critical Power

Power, thermal management and connectivity must be coordinated around the demands of high-density compute.



Photography is illustrative and does not depict SHARE NET projects unless specifically identified.

The physical AI infrastructure stack

Capacity planning is not just a rack count. Electrical, thermal, physical and operational requirements must be defined together.

SHARE NET · INTEGRATION LAYER

01	Grid
02	Substation
03	Energy Storage
04	Critical Power
05	Cooling
06	White Space
07	Rack
08	Compute
09	Network
10	DCIM / Operations

One accountable architecture across every critical dependency.

Capabilities and collaboration models are subject to project scope, feasibility, technical validation and commercial agreement. No performance, schedule or availability guarantee is implied.

From grid to critical load

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01 **Electrical architecture**

Coordinate HV / MV / LV interfaces, substations and distribution with the site connection and critical-load requirements.

02 **Continuity strategy**

Align UPS, backup generation, redundancy and power quality with the availability requirements defined by the project.

03 **Design decisions**

Assess capacity, load profile, selectivity, maintenance access and system interfaces before technology selection.

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Thermal strategy for high density

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01 **Cooling architecture**

Coordinate liquid cooling, rack density, white-space layout and the facility heat-rejection strategy.

02 **System interfaces**

Review facility-to-rack interfaces, water quality requirements, monitoring and operational access.

03 **Design decisions**

Evaluate compute requirements, thermal loads, site conditions and future expansion without assuming universal rack-density limits.

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Energy systems with a defined role

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01

BESS and energy management

Assess battery energy storage and energy management against the operating objectives and electrical architecture.

02

Grid and microgrid integration

Coordinate the grid connection, backup sources and potential microgrid controls around the critical load.

03

Project-specific validation

Storage duration, duty cycle, protection and operating modes require technical and commercial validation. BESS is not automatically a substitute for UPS.

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Modular deployment, integrated on site

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01 **Deployment strategy**

Evaluate power, cooling and data center modules against site conditions, capacity phasing and installation interfaces.

02 **Interface ownership**

Coordinate module boundaries, transport, installation planning and connection to the wider facility.

03 **Expansion planning**

Define an expansion path around the electrical, thermal, physical and connectivity constraints of the site.

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Validate the integrated system

Applicable standards and certification requirements are defined according to project scope. Formal certification, where required, is issued by the relevant authorized independent organization.



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01 **Integrated commissioning**

Coordinate testing, validation, performance verification and handover across the relevant systems.

02 **Operational readiness**

Align monitoring, DCIM, maintenance requirements and handover documentation with the operating model.

03 **Lifecycle coordination**

Coordinate operations, maintenance, modernization and upgrades according to the agreed scope.

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Discuss a project.

Start with the infrastructure challenge.

Israeli accountability. Global technology.

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Explore capabilities

sharenet.tech

Prepare the first conversation

01 Project type and location

02 Target capacity and expansion plans

03 Grid, site and thermal constraints

04 Delivery priorities and decision process

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