ROSE
Architectural compute infrastructure

QDB
بنك قطر للتنمية
Qatar Development Bank

Prepared for the Startup Qatar Investment Program



AI capacity on the buildings Qatar already has.

ROSE Compute turns rooftops, facades, and parking structures into GPU data centers. Every system, compute, cooling, and power, is sealed inside one walkable panel.

START TRACK APPLICANT

NVIDIA INCEPTION MEMBER | PATENT PENDING (US) | FIRST HOST COMMITMENT SIGNED

01 THE CONSTRAINT

AI growth is capped by power and time, not by chips. A new data center takes years to permit, build, and connect, and average waits for utility power now run to about four years. Qatar's demand for sovereign and commercial AI capacity is running ahead of its supply.

The buildings are already standing. So is the electrical headroom inside them.

02 THE PRODUCT

Each ROSE panel carries GPU compute, a sealed liquid cooling loop, and power electronics inside a structural, walkable skin. Panels interlock across a roof or facade and run on the building's existing electrical capacity. No new land, no new substation, and the building owner earns a share of the capacity revenue.

205 kW
IT load in one 60 panel reference block (modeled)

Months
To deployed capacity, not the years a new build takes

$950
Modeled lease rate per kW per month, base case

03 WHY QATAR

Qatar is building sovereign AI at national scale: Qai and its $20B joint venture with Brookfield, MEEZA expanding toward 50 MW, and a Vision 2030 push into knowledge industries. ROSE is the distributed complement to the mega campuses, capacity placed where the buildings, the power, and the customers already are.

04 THE QATAR PLAN

1. **Establish.** Form the Qatar entity (QFC or QSTP) under the START track.
2. **Deploy.** Build the first pilot with a Qatari operating partner on an existing building.
3. **Hire.** Recruit and train a local operations and installation team.
4. **Scale.** Grow block by block against milestones agreed with QDB.

05 THE ASK

START track funding to establish ROSE in Qatar and build the first pilot deployment, released in tranches against milestones agreed with QDB, with our Middle East headquarters in Doha and a local team hired and trained.

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