

HOVER CITIES

Energy Independent by Design

Resilient energy for the built environment.

A Complete City Energy System

Designed for Grid Independence

Powered by Agentic AI

The World's Cities Have an Energy Problem

Grid fragility, price volatility, and aging infrastructure expose cities to unacceptable risk.

HEATHROW AIRPORT, UK

Grid Backup Failure

A single substation fire cut power to one of the world's busiest airports, grounding flights and disrupting hundreds of thousands of passengers. Critical infrastructure, exposed by one point of failure.

SPAIN, APRIL 2025

Solar Overproduction Blackout

A rapid surge in mostly solar generation destabilized the national grid and triggered a cascading blackout across the Iberian Peninsula. Too much unmanaged power is as dangerous as too little.

TEXAS, FEBRUARY 2021

4.5 Million Without Power

Winter Storm Uri exposed the fragility of an isolated grid. Millions were left without heat or power for days, the cost of a grid not designed for resilience or independence.

Price volatility adds another layer of risk. Energy costs can double overnight with no warning. Hover and SEE Holding replace instability with certainty.

What Is a Sustainable City?

More than green buildings. A fully integrated system, designed from the ground up to run efficiently, cleanly, and independently.

01

Net-Zero Energy

All energy produced and consumed on site

02

Car-Free Design

Walkable, mobility-first urban layout

03

Closed-Loop Water

Recycled and treated within the city boundary

04

Urban Food Systems

Biodome farming and vertical agriculture

05

85%+ Waste Diversion

Waste-to-resource infrastructure built in

06

Community Resilience

Systems that keep the city running when others fail



THE MISSING PIECE

Every pillar needs power.

Reliably, at scale, and at a price that works. Until now, developers relied on solar-only or grid-tied approaches that compromise the independence they promise. Hover fills the gap with a complete, multi-source energy system matched to the city's exact consumption profile.

How a City Needs Power

Every moment of city life depends on energy. Not sometimes. Always.



Food

Irrigation, grow lighting, cold-chain refrigeration, and every restaurant kitchen. Every meal depends on energy at each step.



Water

Pumping, UV treatment, filtration, pressure to every tap, and wastewater treatment. Every litre needs continuous power.



Homes

Lighting, heating, cooling, cooking, laundry, and EV charging for thousands of residents, 24 hours a day.



Schools and Healthcare

Classrooms run all day. Hospitals run critical equipment around the clock, where an interruption is a life-safety event.



Commerce and Industry

Offices, retail, data, logistics, and light industry. Commercial demand peaks midday and residential demand in the evening.



Public Infrastructure

Street lighting, traffic systems, emergency services, communications, and transit that can never be interrupted.

The Hover Microgrid™

A complete, patented, multi-source energy system, designed around the city's consumption profile and managed by Agentic AI.



01

Wind

Patented rooftop turbines that use the Building Edge Multiplier Effect, where wind accelerates over rooflines.

19 PATENTS GRANTED

2 TO 5X SOLAR PER AREA



02

Solar PV

Rooftop and carport arrays on every available surface, integrated with wind and storage through one control architecture.



03

Storage

Grid-forming batteries enable islanding and Black Start with no external utility. The city keeps running when the grid goes down.



04

Multi-Fuel Gensets

Backup base load designed to run on biofuel, propane, or hydrogen, with fossil fuel only as a final fallback.



MMS 2.0 · THE BRAIN

Designed, owned, and operated by Hover at every deployment. MMS is not a power source. It is the intelligence layer that dispatches, forecasts, and manages every component in real time. Data never leaves the city.

What Hover Delivers for a City

Not just clean energy. Complete energy independence, at lower cost, matched to how the city actually lives.

01

100% of Power, at Reduced Cost

Hover designs the microgrid to supply 100% of the city's energy needs. The economics work from day one for the developer, and residents pay less than a conventional utility connection.

02

Designed to Match Consumption

Housing, schools, hospitals, commerce, food, and water each have a different load profile. Hover models every zone and sizes the system to fit. No overbuilding. No gaps.

03

A Path to Full Grid Independence

The utility grid is backup only. Wind, solar, storage, and multi-fuel gensets, managed by MMS, let the city island, black start, and self-heal.

04

No-CAPEX Commercial Model

Hover owns, installs, and operates the microgrid. The developer carries no capital expenditure, and the city buys power at a predictable, long-term cost.

From Production to Every Building

Generating energy is half the equation. Getting it where it needs to go, safely and at city scale, is the other half.

Intra-City Transmission and Distribution

A city's energy is a network: rooftop generation, storage nodes, distribution substations, and last-mile connections to every home, school, hospital, and business. Hover designs the full picture, so every kilowatt reaches the right place at the right time.

Strategic Infrastructure Partner

Hover partners with a leading government infrastructure contractor to design and build intra-city transmission and distribution, the physical backbone that connects the Hover Microgrid to every building, engineered for complex, regulated environments.

CITY SYSTEMS SERVED

-  Residential Homes
-  Schools and Universities
-  Hospitals and Healthcare
-  Commercial Retail
-  Food Systems and Farming
-  Water Treatment

The Brain of a Hover System

A city is one of the most complex energy environments on earth. It needs a system that thinks, adapts, and acts in real time.

Why Cities Need Agentic AI

A city is not a building. Housing, schools, hospitals, commerce, food production, water treatment, and public infrastructure all consume power at once, and all change day by day. Hover MMS makes power and data work together, optimizing dispatch, anticipating demand, and giving operators real-time control at every scale.

24/7

AUTONOMOUS MANAGEMENT

100%

ON-PREMISE DATA

0

UPFRONT DEVELOPER CAPEX

Real-Time Dispatch

Allocates power across sources second by second based on live demand

Demand Forecasting

Predicts consumption by zone, season, and occupancy

Autonomous Fault Response

Detects and isolates faults automatically, before they spread

Data Sovereignty

100% on premise. Data never leaves the city.

Hover Owned

Designed, deployed, and operated by Hover at every city, with no third-party dependency

Our Development Partnership

Proud to partner with the world's most accomplished sustainable city developer.

GLOBAL TECHNOLOGY PARTNER · NAMED FEBRUARY 2026

SEE Holding

For 20 years, SEE Holding has set the global standard for what a sustainable city can be. Its communities in Dubai, Sharjah, Abu Dhabi, and Oman are lived realities, home to tens of thousands of residents. Naming Hover its Global Technology Partner recognized that the energy layer had to be redesigned from first principles, and that Hover is the company to do it.

SEE HOLDING BRINGS

- Land acquisition and site control across four countries
- 20 years of sustainable city masterplanning
- Community brand and resident trust
- Long-term asset management through SEE Assets
- Permitting, government relations, and regulatory experience

HOVER ENERGY BRINGS

- The Hover Microgrid™, a complete energy system design
- 19 patents granted and 31 filed
- MMS 2.0 Agentic AI platform
- Intra-city transmission and distribution design
- No-CAPEX, power-as-a-service model
- Grid independence: islanding, black start, full resilience

What a Hover City Looks Like

Take SEE Holding's proven community model. Add the complete Hover Microgrid. Run it on Agentic AI. The result is a city that powers itself and never goes dark.

01

Independent Energy Infrastructure

Wind at every roofline, solar on every surface, storage on demand, and multi-fuel gensets at strategic points, all managed by MMS. When the grid fails, the city islands seamlessly and keeps running.

02

Complete Municipal Services

Hospitals, schools, retail, grocery, and civic infrastructure, everything residents need to live, work, and thrive, built in from day one.

03

Community Design

SEE Holding's Green Spine, car-free streets, biodome farming, closed-loop water, and 85%+ waste diversion, now paired with true energy independence.

04

The Living Demo Effect

Every Hover City is the most powerful asset both companies own. Anyone who walks through a functioning city doesn't need a presentation. The city is the demonstration.

A Replicable Model. A Global Opportunity.

Two companies whose capabilities are perfectly complementary.

01

Design to Consumption

Every engagement starts with how the city will actually live: housing density, commercial mix, schools, hospitals, food, and water. Hover designs the microgrid to match. No generic installations.

02

Build the Infrastructure

From generation array to building connection, including intra-city transmission and distribution. One integrated system, not parts from different vendors.

03

Own and Operate

Power as a service means no CAPEX for the developer. Hover owns and operates the microgrid, the city pays for power, and MMS keeps improving as the city grows.

Built to scale across any market where a sustainable community developer has land, capital, and the ambition to build something that lasts.

HOVER CITIES

Hover makes the city energy independent.
SEE Holding makes it worth living in.
Together, we are building the
blueprint for the cities of tomorrow.

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