



# THE NOVENTRA GROUP/ MODERN MOBILITY

- Engineering the Sovereign Energy Era

A Vertically Integrated Kinetic-to-EV Ecosystem  
Zero-Lithium | Solid-State | Kinetic Harvesting | AI-Driven Mobility





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“We have solved the missing link  
of the energy transition.”

### The Future is in Motion

The world faces a trilemma of unsolved proportions. Renewable energy expansion has hit physical limits: solar farms consume vast tracts of arable land and desert ecosystems, wind turbines face mounting public resistance and intermittency challenges, while hydroelectric potential remains geographically constrained.

Simultaneously, the electrification of transport, the backbone of modern economies, has become dangerously dependent on lithium supply chains concentrated in a handful of jurisdictions, exposing nations to geopolitical leverage and price volatility that threatens industrial competitiveness.

Urban infrastructure, meanwhile, remains trapped in a 20th-century paradigm. Roads, ports, and logistics corridors represent trillions in sunk capital, yet function purely as cost centers: maintenance-intensive, depreciating assets that generate no return while consuming energy rather than producing it. The energy transition demands new solutions, but conventional approaches merely shift dependencies - from fossil fuels to critical minerals, from oil imports to battery imports - without addressing systemic fragility.

Noventra fundamentally reconfigures this equation. We treat kinetic energy - the motion embedded in every truck, train, and container - as an untapped resource stream rather than inevitable loss.

Our ViaGen® systems capture this motion at scale, converting it into baseload-capable electricity precisely where demand exists: at logistics hubs, industrial zones, fleet depots. This energy feeds into proprietary solid-state storage: lithium-free, intrinsically safe, and recyclable.

That eliminates supply chain vulnerabilities while enabling grid-independent operation.

The result is a closed-loop infrastructure asset: transport corridors that power themselves, manufacturing localized to demand centers, mobility services decoupled from volatile commodity markets.

We do not merely deploy technology; we engineer sovereign resilience. Where others see roads, we see power plants. Where others see dependency, we see self-sufficiency.

**The energy transition is not a cost to be managed, it is an infrastructure to be owned.**





## The Integrated Ecosystem

### A Unified Value Chain

Noventra is the world's first operational system integrator to command the entire flow from motion to mobility.

Pillar	Function	Distinction
<b>HARVEST</b>	ViaGen™ Kinetic Systems	24/7 baseload power from vehicle motion. No sun. No wind. No intermittency.
<b>MANUFACTURE</b>	5-in-1 Nanopaste Printing	Localized production of PV modules and batteries on a single, agile industrial platform.
<b>STORE</b>	Lithium-Free Solid-State	Intrinsically safe, sodium/potassium-based. Zero-toxic. 100% recyclable. Sovereign supply chain.
<b>MOVE</b>	The EV Platform	High-efficiency 2-wheeler and 4-wheeler fleets. AI-managed Battery-as-a-Service, Mobility-as-a-Service

## The Hardware Platform

### Software-Defined. Kinetic-Powered.

Noventra doesn't just build vehicles; we build mobile nodes for a smart energy grid. Our proprietary 2-wheeler and 4-wheeler platforms are engineered to be the most efficient energy consumers on the planet.

#### The Urban 2-Wheeler

*Last-Mile Mastery* Designed for the hyper-growth of global e-commerce.

- Native integration with our Solid-State Swap System. Zero downtime—simply swap the lithium-free cell at any Noventra hub.
- Reinforced chassis withstands extreme temperatures (−30 °C to +60 °C).

#### The Modular 4-Wheeler

*Commercial & Fleet Foundation* The backbone of the Car-as-a-Service (CaaS) revolution.

- Modular "skateboard" chassis for cargo, shuttle or luxury bodies on a single high-efficiency powertrain.
- AI-driven "Energy Navigator" optimizes routes based on real-time grid load and kinetic charging availability.

#### The BaaS Advantage *Battery-as-a-Service*

- **75 % reduction** in upfront CAPEX for fleet operators
- Guaranteed performance through Noventra ownership and lifecycle management
- **100 % end-of-life recycling**



## The Economics of Impact

### High-Yield Sustainability

We have moved beyond the “Green Premium.” Noventra’s integrated model delivers industrial-grade returns that outperform traditional infrastructure.

- **48 % Targeted IRR** – validated by European pilot data
- **1.5-year payback** – achieved through energy generation (ViaGen™) + high-utilization fleet leasing
- **100 % Sovereign** – localized manufacturing eliminates global commodity volatility

## Strategic Scaling & Global Roadmap

### Engineering the Multi-Trillion Dollar Infrastructure Shift

Noventra Energy is not a pilot project; it is a global blueprint.

**Phase 1: The High-Traffic Grid (Months 1–18)** Activation of “Power Nodes” at the world’s most critical logistics arteries, like ports, toll corridors, and urban hubs - converting existing motion into immediate revenue.

**Phase 2: The Industrial Gigafactory (Months 12–24)** Establishment of regional Nanopaste and Solid-State Battery production. Localized supply chains ensure 100 % sovereignty.

**Phase 3: The Unified Mobility Network (Months 18–36)** 2-wheeler and 4-wheeler fleets fully integrated into BaaS and AI-Fleet Management platforms.

**The Goal:** \$150 billion in ecosystem value within a decade, transforming passive roads into the most productive energy assets on Earth.



# Join the Revolution

## Where Innovation Meets Intention

The era of land-intensive, lithium-dependent energy is over. The era of Sovereign, Kinetic-Powered Mobility has begun. Noventra Energy is currently selecting lead strategic partners for our 2026 global rollout. We invite visionary investors, government authorities, and industrial leaders to secure their place in the new energy landscape.

**Experience tomorrow's mobility today.** Noventra Group | Modern Mobility

Together with customers, partners and colleagues, we shape a future where people and societies grow and flourish. We do that by co-creating sustainable and beautiful solutions that improve the quality of life for people today and many generations ahead.

That's why we pioneer innovations that connect, protect, and enrich. From concept to global scale - we deliver proven, export-ready technologies.

**Let's shape the next generation together.**

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