GridCORTEX

SoftServe's AI-Powered Utility Intelligence Framework · Powered by NVIDIA

One-Pager · EXTERNAL SAFE

In One Sentence: *Utilities don't buy people who know AI. They buy people who know the grid. And they don't care that your AI engineers have PhDs and worked at NASA. They want to know if you understand their pain points and can actually help solve them. GridCORTEX was built on that premise: 33 years of utility operations embedded in 187 validated solutions, sitting above the systems a utility already owns, answering the questions those systems cannot, and never touching the controls.*

WHAT IT IS

- A framework above, not a system among. Read-only into ADMS, EMS, SCADA, OMS, GIS, AMI.
- Ten independently deployable solution domains built on a common intelligence foundation
- Powered by NVIDIA: Earth-2, Isaac ROS 2, Jetson, Omniverse, NeMo, cuOpt, RAPIDS
- Built and delivered by SoftServe, vendor-neutral above the full OT stack.
- 187 utility-specific solutions led by four high-urgency domains: Connect, Resilience, Asset, and Operations

WHAT IT IS NOT

- Not a control system. Zero control pathways, human-in-the-loop for every decision.
- Not an OT replacement. It makes ADMS, EMS, OMS perform better and never competes.
- Not a black box. Every recommendation includes reasoning, sources, and confidence.
- Not a rip-and-replace. Connects read-only with no disruption to existing OT.
- Not a generic AI copilot. 187 utility-specific solutions built from 33 years of grid ops.

THE TEN SOLUTION DOMAINS

	DOMAIN	PRIMARY BUYER	WHAT IT ANSWERS
	Operations	VP Grid Operations / COO	ADMS co-pilot, alarm triage, switching validation, storm pre-positioning, field AR/XR
	Resilience	Chief Wildfire / Resilience Officer	Storm prediction, wildfire ignition detection, PSPS minimization, flood and freeze twins
	Asset	VP Asset Management	Transformer DGA, predictive asset twins, cable failure prediction, critical spares strategy
	Edge	VP Distribution Planning / DER	DER interconnection, hosting capacity, VPP orchestration, EV siting, AMI intelligence

	DOMAIN	PRIMARY BUYER	WHAT IT ANSWERS
	**Customer**	Chief Customer Officer	Grid-aware chatbot, billing exceptions, non-technical loss detection, rate design simulation
	**Connect**	SVP Strategy / Transmission	Data center interconnection, co-location feasibility, flexible load, tariff structuring
	**Enterprise**	CISO / VP Regulatory / CFO / VP Markets	NERC CIP automation, OT cybersecurity, regulatory filing, executive and board intelligence
	**Robotics**	VP T&D Operations / Chief Safety	Autonomous drone inspection, substation robot, underground crawler, downed conductor recon
	**Nuclear**	Chief Nuclear Officer / CFO	Plant life extension, RPV & component analytics, outage optimization, SMR siting, data center co-location
	**ISO/RTO Markets**	ISO/RTO COO / VP Market Ops / VP Planning	Queue study acceleration, tariff copilot, resource adequacy twins, congestion forecasting, market surveillance, DER onboarding, blackstart drill simulation

FIVE ADVANTAGES NO COMPETITOR COMBINES

1 PRACTITIONER DEPTH

GridCORTEX was designed by people who have sat in every major role in grid modernization: operator, technology provider, systems integrator, consulting partner, and AI solutions leader. Not one use case is theory.

2 NVIDIA-NATIVE ENGINEERING

Earth-2, Isaac ROS 2, Jetson Orin, Omniverse, NeMo, cuOpt, RAPIDS, Metropolis, Morpheus. Not adapting general AI to utilities. Building on the stack the problems actually require.

3 VENDOR NEUTRALITY ABOVE OT

SoftServe sells no ADMS, no EMS, no meters, no OT hardware. GridCORTEX is genuinely neutral above GE, Schneider, Oracle, or any other vendor. There is nothing below OT to protect.

4 NUCLEAR DOMAIN

Domain 19 covers nuclear plant life extension economics, RPV condition analytics, outage optimization, NRC regulatory intelligence, data center co-location PPA structuring, and SMR siting feasibility. 17 use cases.

No NRC 10 CFR Part 50 Appendix B software qualification required. No competitor has built this.

5 LIBRARY DEPTH: 187 USE CASES

Every use case has a named buyer, a specific budget line, a pilot design, an NVIDIA stack mapping, and an executive pitch. Across 23 operating domains. Not a vision document. A working library built from 33 years of sitting inside the utility technology table.

HOW WE ENGAGE: CONSULTING-LED, ENGINEERING-DELIVERED

STEP 1 Discovery
2–4 Weeks
System and data inventory. Gap mapping against the 187-solution library. Pilot design with a named KPI and named executive owner.

STEP 2 Pilot
3–6 Months
One region. One solution. One KPI agreed in writing before kickoff. Where history allows, replay the proof against events the utility has already lived through.

STEP 3 Production
Ongoing Managed Services
Full deployment with SoftServe engineering and managed services. Begins with the four lead domains (Connect, Resilience, Asset, Operations) and expands as value is proven. Robotics enters accounts through those lead domains as the natural expansion when the utility is ready. Each domain activates faster because the integration foundation is already in place.

Runtime & Governance

GridCORTEX agents run on the NVIDIA Agent Toolkit with NemoClaw: OpenShell enforces signed read-only and human-approval policies at runtime, NeMo Relay records every agent decision as an auditable trace, and Nemotron open models deploy fully on-premises where required. Always-on agents, provable control.