



# The Energy Orchestrator operating model

Reimagining the utility role

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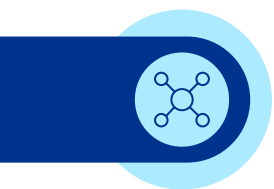
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The Energy Orchestrator represents a fundamental evolution from today's traditional Network Integrator model. While Network Integrators primarily focus on maintaining reliable infrastructure and integrating limited distributed resources, Energy Orchestrators function as dynamic platform coordinators in a vastly more complex and decentralized energy ecosystem.

This evolution requires not just technological transformation but a comprehensive rethinking of organizational structures, core competencies, and business models. The Energy Orchestrator's central mission expands beyond reliable service delivery to include market facilitation, ecosystem orchestration, and value creation across multiple stakeholder relationships.

The rise of tech-owned private microgrids and generation assets is **one of many disruptive forces** fundamentally reshaping the utility landscape. Recent trends show technology companies increasingly investing in direct ownership of energy infrastructure to support their massive data center operations, such as Google's 500MW nuclear power deal with Kairos and Microsoft's procurement of power from Three Mile Island.<sup>1</sup>

This paper, one of a series that explores the evolution of utility companies as they face increasing demand, aging infrastructure, and climate challenges, examines the Energy Orchestrator's operating model in today's complex environment. Rather than competing directly with tech giants' private generation assets, we find that successful Energy Orchestrators are exploring AI and establishing new collaborative models that leverage complementary strengths, such as grid-as-a-platform services, energy resource optimization, regulatory navigation partnerships, and community benefit coordination.

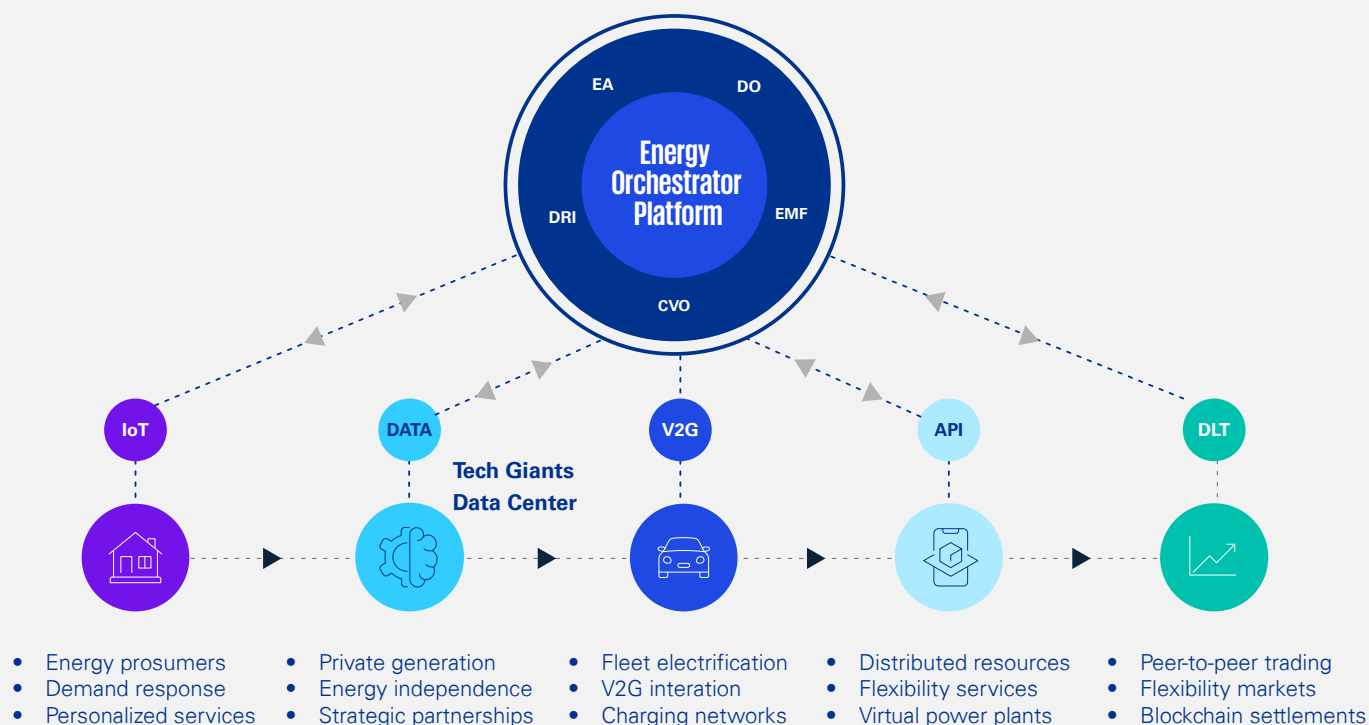


# The Energy Orchestrator Model

The Energy Orchestrator Market Model is a dynamic, platform-based ecosystem designed to optimize and manage distributed physical energy connections. Centralized on the Energy Orchestrator platform, the model integrates various market players—such as tech giants, energy consumers, distributed resources, and peer-to-peer trading networks—through sophisticated digital technologies like APIs, IoT, and distributed ledger technology. This connectivity enables seamless data exchange, fleet electrification, energy independence, and the creation of virtual power plants and flexibility markets. Core functions within the ecosystem include energy market facilitation, distributed resource integration, and customer value orchestration, all aimed at driving efficiency and innovation in the energy sector.

## Energy Orchestrator Market Model

**Platform-Based Energy Ecosystem with Distributed Physical Connections**



### Acronym key

Core functions:

CVO – Customer Value Orchestrator  
DO – Data Orchestration Officer  
DRI – Distributed Resource Integrator  
EA – Ecosystem Architect  
EMF – Energy Market Facilitator

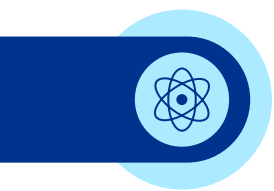
Connections:

API – Application Programming Interface  
DLT – Distributed Ledger Technology  
IoT – Internet of Things

Other:

DC – Data Center  
DER – Distributed Energy Resource  
EV – Electric Vehicle  
P2P – Peer-to-Peer  
V2G – Vehicle-to-Grid  
VPP – Virtual Power Plant





# Core roles within the Energy Orchestrator

The Energy Orchestrator operating model introduces several critical functional roles that either don't exist or are dramatically transformed from those in traditional utilities:



## Ecosystem architect

This strategic role designs and evolves the utility's platform strategy, defining rules of engagement, value exchanges, and growth pathways. The Ecosystem Architect works closely with regulators to establish frameworks that balance innovation with reliability and shapes the long-term vision for the energy marketplace.

The Ecosystem Architect develops specific frameworks for tech company integration, including standardized protocols for microgrid interoperability, data exchange, and value-sharing mechanisms. This includes creating specific pathways for tech-owned assets to participate in broader grid services and market mechanisms.



## Data orchestration officer

Moving beyond traditional IT management, this role treats data as a strategic asset, establishing governance frameworks, quality standards, and value creation mechanisms. The Data Orchestration Officer enables real-time intelligence across the enterprise, partner networks, and customer touchpoints.

The data orchestration officer establishes, and oversees the implementation of, secure data exchange protocols with tech partners, enabling collaborative optimization while protecting sensitive information. This includes frameworks for sharing operational data, performance metrics, and forecasting insights that benefit both parties.



## Distributed resource integrator

This technical role evolves from traditional system operator functions to manage a dynamic portfolio of energy resources across the grid edge. The Distributed Resource Integrator develops sophisticated forecasting models, optimizes resource utilization in real-time, and creates standards for seamless integration of third-party assets.

The Distributed Resource Integrator develops specialized capabilities for integrating large-scale tech-owned generation and storage resources. This includes creating technical specifications for interoperability, establishing operational protocols for coordinated dispatch, and developing contingency plans for system events.



## Energy market facilitator

This commercial role creates and operates marketplace mechanisms that enable value exchange between prosumers, consumers, and service providers. The Energy Market Facilitator develops pricing models, transactional platforms, and settlement systems that support real-time energy trading.

The Energy Market Facilitator develops specific market products that enable tech-owned assets to monetize their capabilities beyond self-supply. This includes creating capacity products, ancillary services mechanisms, and flexibility offerings that leverage the unique characteristics of tech-owned infrastructure.



## Customer value orchestrator

Moving beyond customer service, this role leverages deep analytics to create personalized energy solutions that address evolving customer needs. The Customer Value Orchestrator curates third-party partnerships, develops innovative service bundles, and aligns value creation with customer preference.

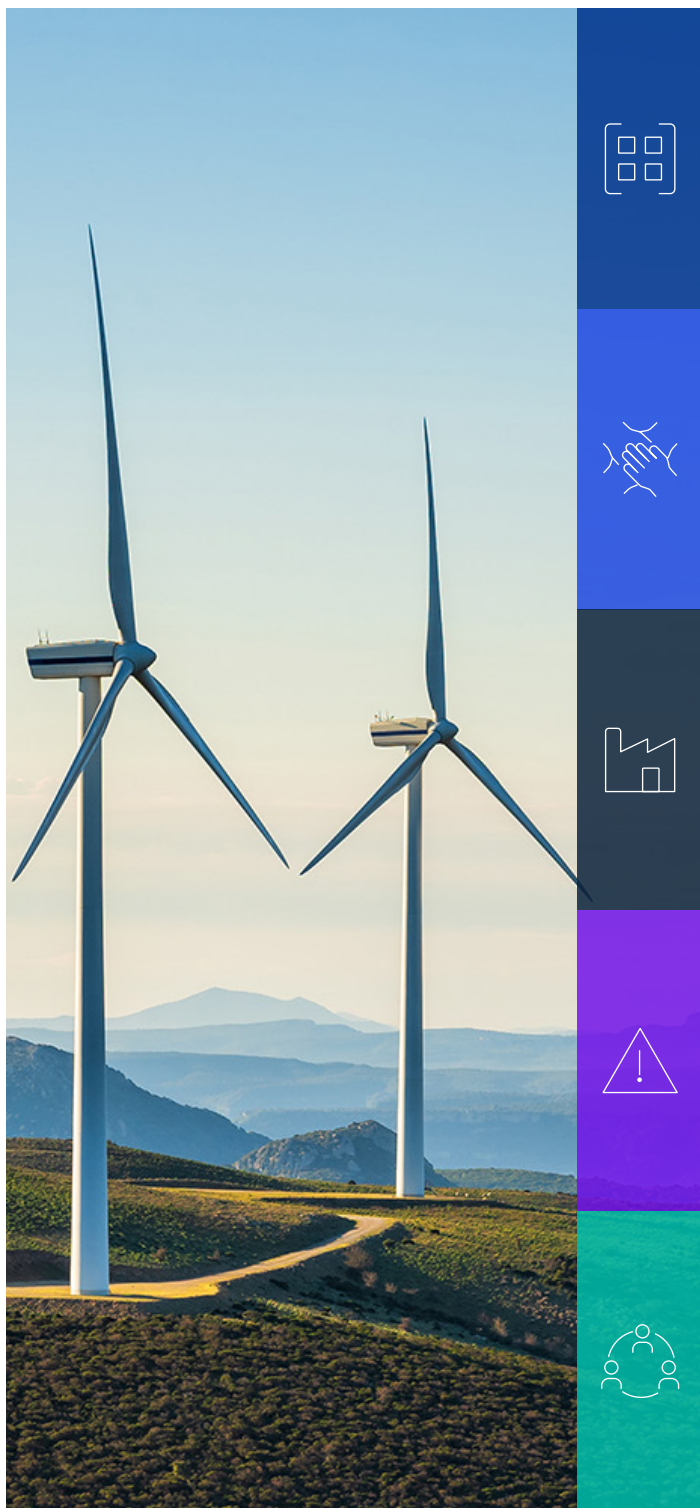
The Customer Value Orchestrator develops specialized account management approaches for tech customers with private generation. This includes creating tailored service bundles that complement their self-generation capabilities and establishing value-based pricing models that recognize their unique contributions to grid stability.





# Microgrid integration framework

The Energy Orchestrator must develop a comprehensive framework for integrating tech-owned microgrids into the broader energy ecosystem. This framework addresses several critical dimensions:



## Technical integration

Energy Orchestrators establish clear technical standards for microgrid interconnection, including protection systems, communication protocols, and operational parameters. These standards ensure both system safety and enable sophisticated coordination between tech-owned assets and the broader grid.

## Operational coordination

Beyond basic interconnection, the Energy Orchestrator establishes mechanisms for ongoing operational coordination with tech-owned microgrids. This includes shared visibility into operational status, collaborative forecasting processes, and coordinated maintenance planning.

## Commercial structures

The Energy Orchestrator develops sophisticated commercial frameworks that recognize the mutual value exchange between the grid and tech-owned microgrids. This includes capacity recognition agreements, standby service arrangements, and compensation mechanisms for grid support services.

## Emergency protocols

Clear frameworks for emergency operations ensure coordinated response during system events. These protocols define responsibilities, communication channels, and decision-making authorities under various contingency scenarios, ensuring public safety while respecting the operational autonomy of tech-owned assets.

## Community Integration

The Energy Orchestrator facilitates integration of tech-owned microgrids into broader community energy planning. This includes opportunities for community energy access during emergencies, shared infrastructure investment, and coordinated decarbonization planning.



# AI as the cornerstone of the Energy Orchestrator model

The emerging Energy Orchestrator must harmonize an increasingly complex ecosystem. Tech giants have evolved from energy consumers to producers, distributed energy resources proliferate at the grid edge, and climate-driven events repeatedly test infrastructure resilience. The US National Power Demand Study, released in March 2025, found that electricity demand in the US is projected to surge by 35-50% between 2024 and 2040, driven primarily by AI data centers and new manufacturing activity in the short-term, with electric vehicles, space-heating electrification, and broad economic growth driving the long-term dynamics.<sup>2</sup>

In this new era, AI will serve as both catalyst and cornerstone of this transition, creating an integrated intelligence layer that permeates every aspect of the Energy Orchestrator's operations, strategy, and business model. AI is the technology foundation upon which the Energy Orchestrator model will be built, enabling utilities to navigate the unprecedented convergence of forces reshaping the energy landscape.



## Near-term AI use case

Unlike previous technological innovations in the utility sector, AI does not merely improve existing processes—it reimagines what's possible, creating capabilities that have no analog in traditional operations. This transformation will unfold in two distinct phases: near-term applications that establish the foundation for the Energy Orchestrator model and future applications that will fully realize its potential within the next decade.



### Real-time system optimization

- **Grid-edge analytics:** "AI algorithms will enable a 20-30 percent improvement in operational efficiency by optimizing power flow across increasingly complex networks, processing data from millions of distributed sensors and allowing precise, localized decision-making."<sup>3</sup>
- **Predictive maintenance:** Machine learning models will reduce outage duration by 30 percent by identifying subtle patterns in equipment performance that precede failures, dispatching crews before failures occur.<sup>4</sup>
- **Renewable integration:** Advanced forecasting algorithms will improve renewable energy prediction accuracy by 25 percent by combining weather, historical generation, and real-time data, enabling more confident integration of variable resources into system operations and reducing costly reserve requirements.<sup>5</sup>



### Tech giant partnership management

- **Collaborative forecasting models:** Shared AI platforms will combine utility grid data with tech company energy consumption patterns to create joint probabilistic load forecasts that benefit both parties, replacing traditional demand estimates with dynamic, high-resolution predictions.
- **Operational coordination:** AI-powered interfaces will manage real-time interoperability between utility grids and tech-owned microgrids, continuously negotiating operating parameters to maintain system stability while respecting the operational independence of tech-owned assets.<sup>6</sup>
- **Dynamic capacity recognition:** Algorithmic frameworks will automatically quantify and compensate tech-owned assets providing grid services, enabling new value streams that align utility needs with tech company capabilities in ways impossible with traditional static arrangements.





## Customer-centric transformation

- **Consumer energy pattern recognition:** AI will analyze prosumer behavior across millions of endpoints to create personalized energy offers, replacing broad service classes with individualized value propositions that reflect each customer's unique relationship with the grid.
- **Demand response optimization:** Machine learning will maximize the efficiency of peak reduction programs by precisely targeting the optimal resources for each grid condition, decreasing peak demand by 20 percent while minimizing customer impact through intelligence rather than brute-force curtailment.<sup>7</sup>
- **Personalized energy solutions:** Analytics platforms will match customer preferences with third-party service providers in real-time marketplaces, transforming utilities from service providers to orchestrators of customer-centered energy ecosystems.



## Digital twin development

- **Network modeling:** AI-powered simulation environments will create continuously updated digital representations of physical grid assets, enabling operators to test interventions virtually before implementing them in the physical world.<sup>8</sup>
- **Scenario analysis:** Machine learning models will test thousands of "what-if" scenarios for grid planning and investment decisions, replacing limited manual analyses with comprehensive simulations that reveal non-intuitive optimization opportunities.
- **Cross-boundary optimization:** Digital replicas spanning both utility and tech-owned assets will enable collaborative planning that optimizes assets across organizational boundaries, identifying synergies impossible to discover through traditional siloed approaches. Digital Twins technology and operations resources can be leveraged across organizational boundaries to improve asset reliability and up time while expert resources are increasingly hard to secure.





# Future AI use case

Looking further into the future, AI has the potential to detect and resolve disruptions, facilitate dynamic energy markets, and enable efficient resource planning and integration.



## Autonomous grid orchestration

- **Self-healing networks:** Advanced AI systems will automatically detect, isolate, and reconfigure grid elements after disruptions without human intervention, using autonomous decision-making to restore service in milliseconds rather than minutes or hours.
- **Predictive grid reconfiguration:** Cognitive algorithms will anticipate system constraints hours before they materialize and proactively restructure power flows to prevent issues.
- **Autonomous microgrid coordination:** Federated AI will enable completely automated negotiation of resources, services, and compensation between independent microgrids and utility systems, creating self-organizing energy communities that dynamically optimize across ownership boundaries.



## Advanced market mechanisms

- **AI-powered transactional platforms:** Blockchain systems supported by intelligent automation will facilitate complex energy trading across organizational boundaries, executing millions of transactions per second at negligible cost.
- **Dynamic pricing algorithms:** Machine learning will create real-time pricing signals that reflect true system costs at sub-second intervals and specific locations, replacing broad rate structures with granular economic signals that precisely align consumption with system value.
- **Automated flexibility markets:** AI agents representing different resources will participate in automated trading environments for grid services, negotiating optimal outcomes for their owners while collectively ensuring system reliability through emergent coordination.



## Spatial-temporal optimization

- **Four-dimensional resource planning:** AI will plan and optimize resources by considering both location and time all at once. It will manage resources over different periods, from very short moments to many years, rather than doing it step-by-step. This approach will find efficient solutions that aren't immediately obvious.
- **Climate-adaptive intelligence:** Self-learning systems will adjust grid operations in response to changing climate patterns, continuously updating planning assumptions based on observed changes rather than historical and potentially outdated norms.
- **Coordinated transmission-distribution management:** AI will enable seamless coordination between separate grid domains, optimizing resources across traditional boundaries. This creates a truly integrated system operation paradigm that is impossible in traditionally siloed operations and improves reliability and safety.



## Cross-sector integration

- **Transportation-grid nexus:** AI orchestration platforms will coordinate millions of electric vehicles as mobile grid resources, transforming transportation electrification through intelligent charging and discharging coordinated with grid needs.
- **Building-grid harmonization:** Sophisticated algorithms will manage building systems and grid requirements as integrated units rather than separate domains. This unlocks enormous flexibility potential, including optimizing power generation, dynamic demand-response, and stability.
- **Industrial-energy system integration:** AI will coordinate industrial processes with grid conditions for optimum efficiency, transforming energy-intensive industries from inflexible loads to valuable grid resources through intelligence-driven process flexibility.





# Strategic implications for utilities

The AI transformation required for the Energy Orchestrator model has profound strategic implications that extend far beyond technology implementation. Successful utilities must:



## Develop AI as a core competency

The Energy Orchestrator's success depends on building AI expertise as a fundamental organizational capability, not an outsourced function.



## Establish data as strategic asset

Data governance, quality, and integration are critical foundations for AI-enabled orchestration across complex ecosystems.



## Create platform business models

AI enables utilities to transition from asset-based to platform-based business models, extracting value from facilitating transactions rather than just selling commodities.



## Redefine tech giant relationships

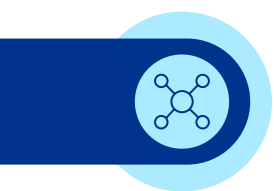
AI-powered partnership models transform tech companies from competitive threats to strategic collaborators through sophisticated value exchange.



## Reimagine regulatory frameworks

Performance-based mechanisms must evolve to recognize the value created by AI-enabled orchestration across traditional boundaries.





# Key differences from Network Integrators

The Energy Orchestrator model differs from today's Network Integrator approach in several fundamental ways:

Dimension	Network Integrator	Energy Orchestrator
<b>Strategic focus</b>	Asset optimization and reliability	Ecosystem value creation and platform growth
<b>Tech company relationship</b>	Transactional service provider	Strategic infrastructure partner
<b>Private generation approach</b>	Regulatory compliance focus	Value co-creation opportunity
<b>Business model</b>	Rate-based revenue from infrastructure	Diversified revenue streams including service fees, platform transactions, and performance-based returns
<b>Innovation approach</b>	Incremental, focused on operational improvements	Transformational, focusing on new market creation and service models
<b>Organizational structure</b>	Hierarchical, function-based	Network-oriented, capability-focused with dynamic teams
<b>Decision making</b>	Centralized, deliberate	Distributed, agile, data-driven
<b>Partner management</b>	Vendor relationships	Ecosystem alliances and co-creation
<b>Technology strategy</b>	Supporting operational needs	Enabling strategic capabilities and market creation
<b>Risk Focus</b>	Reliable, Resilient	Reliable, Resilient, Adaptable, Flexible



# Technology foundation requirements

The Energy Orchestrator requires a sophisticated, flexible technology architecture that enables integration with tech-owned generation while maintaining core reliability:



## Platform integration layer

A microservices-based architecture provides the foundation for seamless integration of internal and external systems, including tech-owned microgrids. This enables real-time coordination between utility operations and private generation resources through standardized APIs and secure communication channels.



## Intelligent edge orchestration

Advanced edge computing capabilities enable coordinated control schemes that span organizational boundaries. This requires sophisticated coordination frameworks that respect operational autonomy while enabling system-wide optimization and stability.



## Advanced analytics ecosystem

The Energy Orchestrator develops sophisticated analytics capabilities that incorporate data from tech-owned assets into broader system optimization. This includes collaborative forecasting models that improve accuracy by combining insights from multiple sources, joint optimization algorithms, and shared situational awareness.



## Digital twin environment

Comprehensive simulation capabilities include detailed modeling of tech-owned microgrids, enabling sophisticated what-if analysis of system interactions. These digital replicas span physical infrastructure across organizational boundaries, enabling collaborative planning and optimization.



## Transactional marketplace

Blockchain-enabled transaction platforms support complex value exchanges between the grid and tech-owned generation. These systems accommodate specialized products that recognize the unique capabilities of tech microgrids, including flexible capacity, rapid response, and specialized ancillary services.







# Case studies: Emerging models

Several emerging models demonstrate how Energy Orchestrators are successfully integrating tech-owned generation:



## Microsoft-PJM grid integration partnership

Microsoft's collaboration with PJM Interconnection demonstrates how tech-owned generation can actively participate in regional markets. Rather than merely providing self-supply, Microsoft's resources now provide frequency regulation, capacity, and other grid services through sophisticated integration platforms developed in partnership with the grid operator.



## Google-Duke Energy clean energy collaboration

Google's partnership with Duke Energy showcases collaborative approaches to clean energy development. The 500MW solar project demonstrates a hybrid ownership model where development expertise, risk management, and operational responsibilities are allocated based on each organization's strengths rather than traditional boundaries.



## National Grid distributed flexibility program

A social media company's energy storage assets now actively participate in National Grid's distributed flexibility markets, providing grid services beyond Meta's facilities. This model demonstrates how sophisticated market mechanisms can align incentives across organizational boundaries, creating system-wide benefits from privately-owned assets.



# Regulatory evolution requirements

The Energy Orchestrator model requires regulatory evolution to support new approaches to tech-owned generation integration:



## Platform regulation framework

Regulatory structures must evolve from asset-based models to platform-based frameworks that recognize the Energy Orchestrator's role in facilitating multi-party value exchange. This includes performance-based mechanisms that reward successful ecosystem orchestration rather than simply asset deployment.



## Multi-Party value recognition

Regulatory frameworks must recognize and enable complex value exchanges between tech-owned assets, the grid, and other stakeholders. This includes mechanisms for quantifying and compensating grid services, reliability contributions, and system benefits across organizational boundaries.



## Collaborative planning processes

Integrated resource planning processes must evolve to incorporate tech-owned generation as an integral part of system planning rather than simply a load forecast adjustment. This requires collaborative planning frameworks that balance commercial confidentiality with system transparency.



## Innovation sandbox mechanisms

Regulatory innovation mechanisms must enable controlled experimentation with new integration models. These "sandbox" approaches allow Energy Orchestrators and tech partners to develop and test new approaches to microgrid integration without immediate full-scale regulatory commitments.



# Performance metrics evolution

As utilities transform into Energy Orchestrators, performance metrics must evolve to reflect new approaches to tech-owned generation integration:

Traditional metrics	Energy Orchestrator metrics
<b>SAIDI/SAIFI reliability indices</b>	Platform availability and transaction success rate
<b>Asset utilization rates</b>	Ecosystem value creation
<b>Cost to serve</b>	Collaborative innovation success
<b>Regulatory compliance</b>	Private generation integration efficiency
<b>Capital project delivery</b>	System optimization across boundaries
<b>Operating expenses</b>	Platform Economics and Scaling Efficiency

The Energy Orchestrator's performance framework must recognize success in creating system-wide value through effective integration of tech-owned resources.





# Implementation roadmap

The journey to successfully integrating tech-owned generation requires a phased approach:

## Phase 1: Foundation building



- Establish clear technical standards and protocols for microgrid integration
- Develop initial collaboration frameworks with key tech partners
- Create data sharing protocols and integration platforms
- Establish pilot programs for joint optimization

## Phase 2: Market development



- Implement value exchange mechanisms that recognize mutual benefits
- Develop collaborative planning processes that incorporate tech assets
- Create specialized products for tech-owned resource participation
- Establish performance metrics for successful integration

## Phase 3: Ecosystem optimization



- Implement advanced optimization across organizational boundaries
- Develop sophisticated resilience partnerships that leverage complementary strengths
- Create self-service integration platforms for new tech participants
- Establish ecosystem-wide decarbonization frameworks

By embracing these approaches to tech-owned generation integration, the Energy Orchestrator transforms potential competitive threats into collaborative opportunities that create value for all stakeholders in the energy ecosystem.





# How KPMG Can Help

As utilities navigate the complex transformation from Network Integrators to Energy Orchestrators, KPMG offers comprehensive support across the entire journey. Our deep industry expertise, combined with specialized capabilities in strategy, business transformation, AI, and data, positions us as the ideal partner to guide utilities through this critical evolution.



## Strategic Transformation Support

KPMG's strategic advisors help utilities develop a clear vision and roadmap for their Energy Orchestrator transformation. We work with executive leadership to:

- Assess current capabilities against the Energy Orchestrator model requirements
- Define a strategic vision that balances innovation with reliability obligations
- Develop phased implementation plans that manage risk while accelerating transformation
- Create business cases and value realization frameworks for new platform business models
- Design ecosystem partnership strategies, particularly for tech company collaboration



## Business Transformation Expertise

Becoming an Energy Orchestrator requires fundamental changes to operating models, organizational structures, and core processes. KPMG's transformation specialists help utilities:

- Design and implement new organizational structures aligned with Energy Orchestrator roles
- Develop change management strategies that build organizational capability and cultural readiness
- Transform regulatory engagement approaches to support new business models
- Redesign core processes to enable ecosystem orchestration rather than linear operations
- Implement performance metrics that measure platform success and ecosystem value creation



## Data & Technology Enablement

The Energy Orchestrator model depends on robust data foundations and advanced technology architecture. KPMG's technology professionals deliver:

- Data strategy development that establishes data as a strategic utility asset
- Technology architecture design for platform integration, advanced analytics, and digital twins
- Implementation support for marketplace technologies and transactional platforms
- Cybersecurity frameworks to protect critical infrastructure while enabling ecosystem collaboration
- Cloud strategy development to support the scalability requirements of the Energy Orchestrator



## Transformation Journey Support

KPMG recognizes that each utility's transformation journey is unique. We tailor our support to meet utilities wherever they are on their path to becoming Energy Orchestrators:

### Phase 1: Foundation Building

- Capability assessment and gap analysis
- Strategic roadmap development
- Initial use case implementation
- Technology architecture design
- Data governance framework establishment

### Phase 2: Capability Scaling

- Platform business model implementation
- Ecosystem partnership development
- Advanced analytics capability expansion
- Regulatory framework evolution
- Organizational redesign and change management

### Phase 3: Ecosystem Orchestration

- Full-scale platform deployment
- Sophisticated ecosystem value optimization
- Advanced AI implementation
- Performance-based regulatory models
- Continuous innovation frameworks

By partnering with KPMG, utilities gain access to a powerful combination of industry knowledge, transformation experience, and technical expertise designed specifically to support the journey to becoming successful Energy Orchestrators in a rapidly evolving energy landscape





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