TGO Alliance

2025 TGO Fall Summit

Orchestrating the Grid to Enhance Reliability and Unlock Grid Resources

October 14-15, 2025

Hilton Garden Inn Atlanta Downtown
275 Baker St NW
Atlanta, GA 30313

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Agenda

Tuesday, October 14, 2025 | Alliance in Action

Breakfast & Check-In ..... 7:30 am – 8:30 am

Welcome ..... 8:30 am – 9:00 am

Keynote Address | Mark Ortiz ..... 9:00 am – 9:30 am

TGO Alignment ..... 9:30 am – 10:15 am

TGO Framework ..... 10:30 am – 11:30 am

National Grid Case Study ..... 11:30 am – 12:00 pm

Flexible Interconnections

Lunch ..... 12:00 pm – 1:00 pm

Localized Grid Flexibility ..... 1:00 pm – 3:00 pm

Rappahannock Electric Co-Op Case Study ..... 3:00 pm – 3:30 pm

Innovative Distribution Planning

Digital & Data Readiness ..... 3:45 pm – 4:45 pm

Social Event ..... 6:00 pm – 8:00 pm

Connect and unwind with games, food, and drinks!

Fight Club Atlanta
1055 Howell Mill Rd
Atlanta, GA 30318

Agenda

Wednesday, October 26, 2025 | Advancing TGO

Breakfast & Check-In ..... 7:30 am – 8:30 am

Welcome ..... 8:30 am – 8:45 am

Industry Rising Trends ..... 8:45 am – 9:05 am

Rising Trend Breakout ..... 9:05 am – 10:00 am

1. *Evolving Energy Models (DSO)*
2. *AI for Grid Operations*
3. *Data Centers as Flexible Load*

Rising Trend Regroup ..... 10:00 am – 10:45 am

Public Services of New Mexico Case Study ..... 11:00 am – 12:00 pm

Transmission Real-Time Contingency Analysis & Applications for TGO

Lunch ..... 12:00 pm – 1:00 pm

Schneider Electric Case Study ..... 1:00 pm – 1:45 pm

One Digital Grid Platform

Working Group Planning ..... 1:45 pm – 2:45 pm

Debrief & Closing Remarks ..... 2:45 pm – 3:15 pm

Social Event ..... 4:00 pm – 5:00 pm

Welcome

Welcome to the 2025 TGO Fall Summit!

Over the next two days, we will discuss the importance of Total Grid Orchestration in navigating significant transformations in grid investments and fostering a more robust, adaptable grid. We will delve into the most recent trends, technologies, and tactics in grid orchestration and explore how they can be leveraged to cultivate a more resilient and sustainable grid.

Our Alliance members will provide key updates from our working groups that were mobilized in 2025 including a TGO developed concept, Localized Grid Flexibility. Furthermore, we will work together to chart our course for 2026 and beyond.

We look forward to engaging discussions, insightful exchanges, and collaborative efforts to shape the future of grid orchestration. Thank you for being part of this important gathering.

Lastly, we'd like to extend our warm appreciation to our event sponsors, session speakers, and event planners for making this event possible.

Guillaume Paradis
Co-Chair, TGO Alliance
COO - Distribution and Generation, Hydro Ottawa Limited

Joe Zhou
Co-Chair, TGO Alliance
Infrastructure Advisory Markets Group Leader, Black & Veatch

A special thank you to our event sponsors

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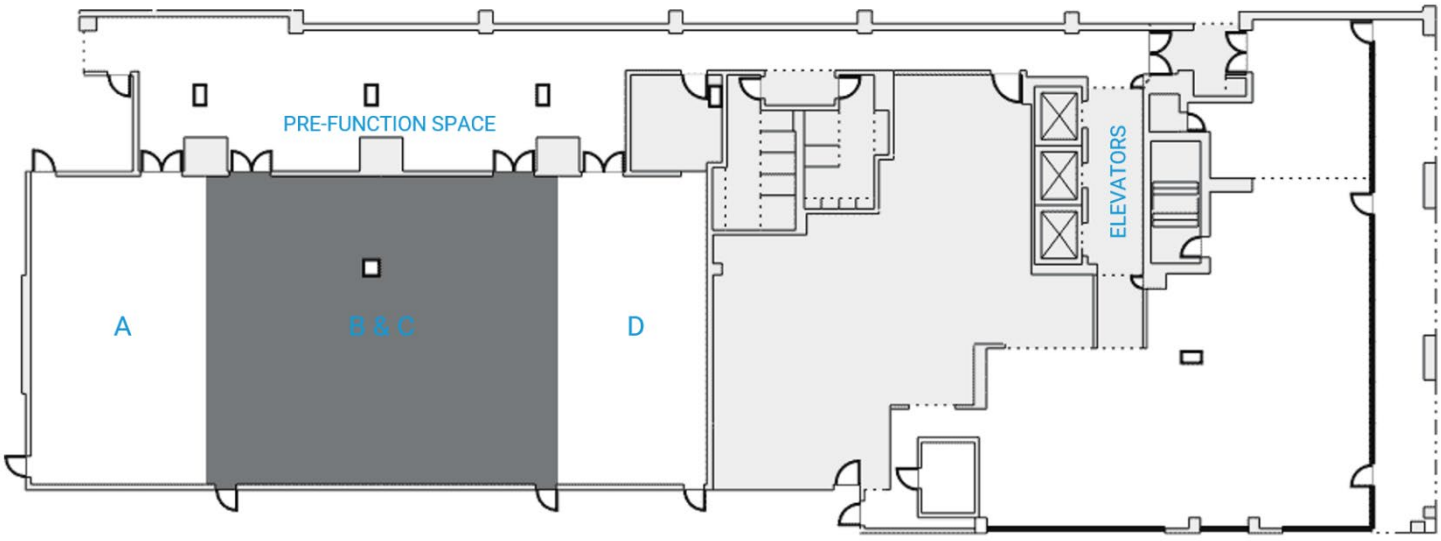
Important Information

Hilton Garden Inn Atlanta Downtown
275 Baker St NW
Atlanta, GA 30313

- Fall TGO Summit will be held in Oceanic Ballroom (4th floor)
- Food and Beverages can be found in Pre-Function space (hallway)



Need support this week?

Allie Broussard
Alliance Administrator, TGO Alliance
Electric Markets Specialist, Black & Veatch
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As a reminder, it is important to adhere to all antitrust laws and regulations. This includes avoiding discussions or agreements with competitors on pricing, market allocation, or any other competitive sensitive information.

Keynote

Mark Ortiz

Senior Director and Chief Architect, Power and Grid, Schneider Electric

Mark Ortiz is a forward-thinking energy professional specializing in the development and delivery of large complex Energy Infrastructure and Digital Transformation programs that are modernizing the electric grid. With over 25 years of utility experience from strategy, smart grid architecture, regulatory support, and industry standards- Mark brings a collaborative spirit in shaping the future of grid orchestration.

Joe Zhou

Co-Chair, TGO Alliance
Infrastructure Advisory Markets Group Leader

BLACK & VEATCH

Total Grid Orchestration Framework

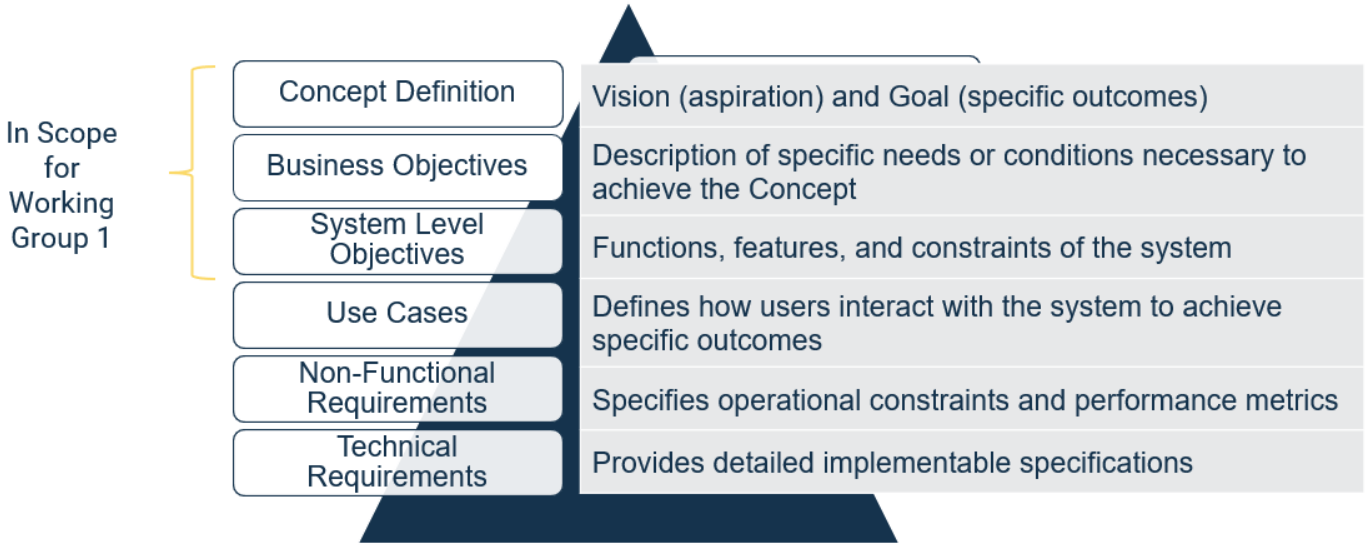
Refining TGO Framework and Maturity Model to advance TGO focus areas

BLACK & VEATCH

Paul Moran

Principal Consultant, Integrated Solution Strategist

TGO Framework Hierarchy



TGO Business Objectives

Total Grid Orchestration (TGO) TGO is a coordinated approach to manage the risks across the entire grid, thereby optimizing the performance of the energy grid, especially in extreme reliability and resiliency situations.

WG 1 identified **8 core objectives** of Total Grid Orchestration

Holistic Visibility and Control: Achieve comprehensive and secure situational awareness and real-time control of all grid assets.

Integrated Planning & Operations: Foster collaboration across generation, transmission, distribution and customer (as applicable) for synchronized planning and operations.

Localized Grid Flexibility: Utilize flexible resources to balance supply and demand, ensuring grid stability.

Ability for Enhanced Resilience and Reliability: Strengthened ability to respond to disturbances and support grid resilience.

Customer and Prosumer Integration: Empower consumers and distributed energy resources to participate in grid services while respecting their preferences.

Asset Optimization Capabilities: Enable optimization of grid assets.

Market Enablement and Coordination: Support and incentivize flexible and reliable behavior in grid services markets.

Risk-Informed Decision-Making Capabilities: Quantified and predictive grid analysis to inform near real-time operational actions.

System Level Objectives

Defining the functions feature of the constraints of the system that would enable the vision of Orchestration.

Legend
Operations & Analytics
Planning & Capital Improvement
Market & Policy Design
Data Collection & Situational Awareness

Risk-Informed Decision-Making

Situational Analytics & Modeling
Quantified and coalesced operating envelope influences within each business objective value measure.

Risk Framework
A common quantitative scale to measure, weigh, assess, and prioritize risk for determining action.

Decision Support Systems
The platform to act on the outputs of situational awareness based on quantifiable risk.

Holistic Visibility and Control

Real-time Data Acquisition
Implemented sensors and IoT devices across the grid for continuous data collection.

Unified Monitoring Platform
Developed centralized system for real-time visualization.

Interoperability
Ensure compatibility with grid components, including DERs, electric vehicles, and flexible loads, as well as control of these grid assets.

Integrated Planning & Operations

Data Integration
Shared data platform for TSOs and DSOs to access and exchange information seamlessly.

Coordinated Control Systems
Implemented systems that allow synchronized control actions across transmission and distribution networks.

Joint Planning Tools
Developed tools for collaborative forecasting, planning, and decision-making.

Localized Grid Flexibility *(WG2)*

Demand Response Mechanisms
Established protocols for activating demand response and other flexible resources.

Energy Storage Integration
Incorporated energy storage systems to manage supply and demand fluctuations.

Advanced Forecasting
Use of predictive analytics to anticipate demand and supply variations.

Ability for Enhanced Resilience and Reliability

Automated Fault Detection
Deployed advanced analytics and machine learning for early detection of grid disturbances.

Self-Healing Networks
Implemented automation for rapid isolation and restoration of grid sections.

Resilience Planning
Develop strategies for islanding, black start, and microgrid operations.

Customer and Prosumer Integration

Dynamic Pricing Models
Created pricing structures that incentivize consumer participation in grid services.

Virtual Power Plant
Enabled aggregation of distributed resources to act as single entities in the grid.

User-Friendly Interfaces
Developed platforms that allow consumers to easily engage with grid services.

Asset Optimization Capability

Advanced Analytics
Utilize emerging technologies for proactive and predictive maintenance and optimization.

Data Interoperability
Ensure seamless data exchange between different platforms and stakeholders.

Scenario Analysis Tools
Developed tools for simulating and analyzing various grid scenarios.

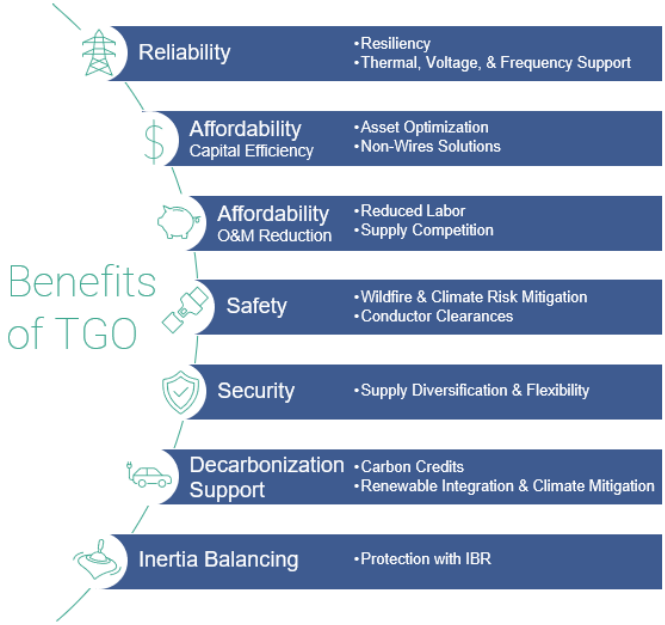
Market Enablement and Coordination

Real-Time Market Platforms
Created platforms for real-time trading of grid services.

Incentive Structures
Designed market mechanisms that reward flexible and reliable behavior.

Regulatory Compliance
Ensure alignment with regulatory requirements and standards.

TGO Value Proposition



Stakeholder Benefits

Operator

Reliability
- Thermal
- Voltage
- Frequency

Resiliency
- Event LAR Support
- Islanding Control

Affordability – O&M
- Reduced Labor
- Competitive Supply Pricing

Safety & Security
- Wildfire Risk Mitigation
- Conductor Clearance Mitigation

Planner

Affordability – Capital
- No Overbuild
- Non-Wires Solutions

Accelerated Interconnections
- EAM Goals Achieved
- Decarbonization Support

Accelerated Demand Service
- Increased Metered Revenue

Inertia Balancing
- Avoided Protection-driven Capital Upgrades

Prosumer

Wholesale Market Revenue

Retail Market Revenue

BTM Rebates
- Aggregator Models

Sustainability
- Decarbonization

TGO Maturity Model Definitions

Maturity Level	Description	Key Characteristics	Value Realization
1. Foundational (Awareness & Enablement)	**Basic capabilities and awareness of orchestration potential.**	- Manual processes - Siloed systems - Limited visibility - Minimal DER integration	- Initial reliability improvements - Basic O&M cost savings
2. Integrated (Data-Driven Coordination)	**Systems and data begin to integrate across domains.**	- Shared data platforms - Early-stage DERMS, ADMS - Some demand response - Basic forecasting & analytics	- Improved asset utilization - Moderate O&M and capital efficiency - Early resilience planning
3. Orchestrated (Dynamic Optimization)	**Real-time orchestration across grid layers and actors.**	- Real-time/locational situational awareness - Coordinated TSO/DSO operations - Automated fault detection - Virtual Power Plants (VPPs) - Risk-informed decision-making	- High reliability & resilience - Capital deferral via non-wires solutions - Enhanced market participation
4. Adaptive (Predictive & Proactive Ecosystem)	**Fully adaptive, self-optimizing grid ecosystem.**	- AI/ML-driven analytics - Self-healing networks - Dynamic pricing & incentives - Full prosumer integration - Regulatory-aligned orchestration	- Maximum grid flexibility - Decarbonization & sustainability - Resilient, affordable, secure grid

TGO Maturity Model Expanded Definitions

	Maturity Level			
Objective	Foundational	Integrated	Orchestrated	Adaptive
Holistic Visibility & Control	Basic SCADA, siloed data, limited DER visibility	Unified dashboards, partial DERMS, AMI integration	Real-time situational awareness, DERMS + ADMS, IoT sensors	Predictive grid state modeling, AI-driven control, full DER orchestration
Integrated Planning & Operations	Separate TSO/DSO planning, manual coordination	Shared data lakes, joint planning sessions	Coordinated control systems, integrated forecasting	AI-assisted co-optimization, dynamic planning with real-time feedback
Localized Grid Flexibility	Manual DR programs, limited BTM visibility	Aggregator platforms, early VPP pilots	Automated DR, storage dispatch, flexible load orchestration	Fully modular flexibility, AI-optimized dispatch, prosumer-led balancing
Enhanced Resilience & Reliability	Manual outage response, basic redundancy	FLISR, automated switching, resilience planning tools	Self-healing networks, microgrid integration, black start readiness	Predictive failure analytics, adaptive islanding, climate risk mitigation
Customer & Prosumer Integration	TOU pricing, basic portals, passive consumers	Real-time pricing, DER enrollment, mobile apps	VPPs, DER aggregation, active market participation	Full prosumer orchestration, dynamic incentives, sustainability dashboards
Asset Optimization Capability	Time-based maintenance, siloed asset data	Predictive maintenance, digital twins, APM tools	Scenario-based planning, cross-platform analytics	AI-driven optimization, real-time asset orchestration, lifecycle extension
Market Enablement & Coordination	Manual settlements, limited DR markets	Real-time trading platforms, DRMS integration	Dynamic pricing, flexible market rules, DER market access	Fully transactive energy markets, blockchain-enabled P2P trading
Risk-Informed Decision-Making	Qualitative risk logs, manual assessments	Quantitative scoring, early modeling tools	Real-time risk dashboards, decision support systems	Predictive risk optimization, AI-driven orchestration under uncertainty

Case Study

Flexible Interconnections

nationalgrid

Joe Ciccarello

Lead Engineer, Electrical Planning and Design

Working Group #2

Localized Grid Flexibility (LGF)

Review LGF concept progression and learn how to assess your organizations LGF maturity

Andrew Fawcett

Supervisor, Distribution Systems Integration

HydroOttawa

Allie Broussard

Market Specialist, Electric Markets

BLACK & VEATCH

Localized Grid Flexibility Defined

The orchestration of multiple Grid Services to alleviate constraints in the distribution network to balance energy supply and demand at the local level by providing real-time reporting and analytics and control on localized Grid Services to evaluate effectiveness and optimize dispatch.

GOALS

- ✓ Alleviate localized constraints by orchestrating Grid Services and resources in the most efficient way possible.
- ✓ Effectively prepare grid resources based on constraints identified in the short-term forecast.
- ✓ Leverage a single platform to plan and orchestrate all available Grid Services in the short-term (operational) time horizon (<10 days).
- ✓ Orchestrate solutions for a single or set of constraints to support local solutions and enable more granular usage of Grid Services.

SCOPE

Distribution system from the distribution service transformer, up to the sub-transmission (34.5 - 100kV) level.

Grid Services

- *Volt Var Optimization (VVO)*
- *Conservation Voltage Reduction (CVR)*
- *Load Balancing (Grid Reconfiguration)*
- *Demand Response Programs*
- *Flexible Interconnections*
- *BESS*
- *Asset Optimization*
- *Virtual Power Plant*

OUT OF SCOPE

- ❑ System Planning
- ❑ Multiple Violations

PRE-CONDITIONS

#1 – Multiple Grid Services

2 or more Grid Services must be available for orchestration.

#2 – Organization Structure

- ✓ Visibility to real-time grid constraints
- ✓ Access to multiple services that can be managed to alleviate constraints
- ✓ Ability to directly manage Grid Services in real-time

#3 – Regulation and Market Structure

Contract or rate recovery mechanisms that allow multiple Grid Services to be used to remediate reliability or power quality issues on the localized system.

#4 – Available Flexibility

Knowledge of location and amount of flexibility available to alleviate grid constraints across different time scales.

Localized Grid Flexibility Working Group Guardrails

LGF Working Group Guardrails

IN SCOPE	OUT OF SCOPE
Current State Infrastructure	Long Term System Planning
Single System Constraints	System-wide Grid Management

Expanding LGF Scope Moving Forward

Planning & Design	Changes to the distribution planning model to better leverage LGF capability
System Wide Application	Orchestration of many constraints across the distribution and sub-transmission system
LGF Deployment	Utility pilot for LGF in partnership with a vendor or simulated pilot in a lab environment

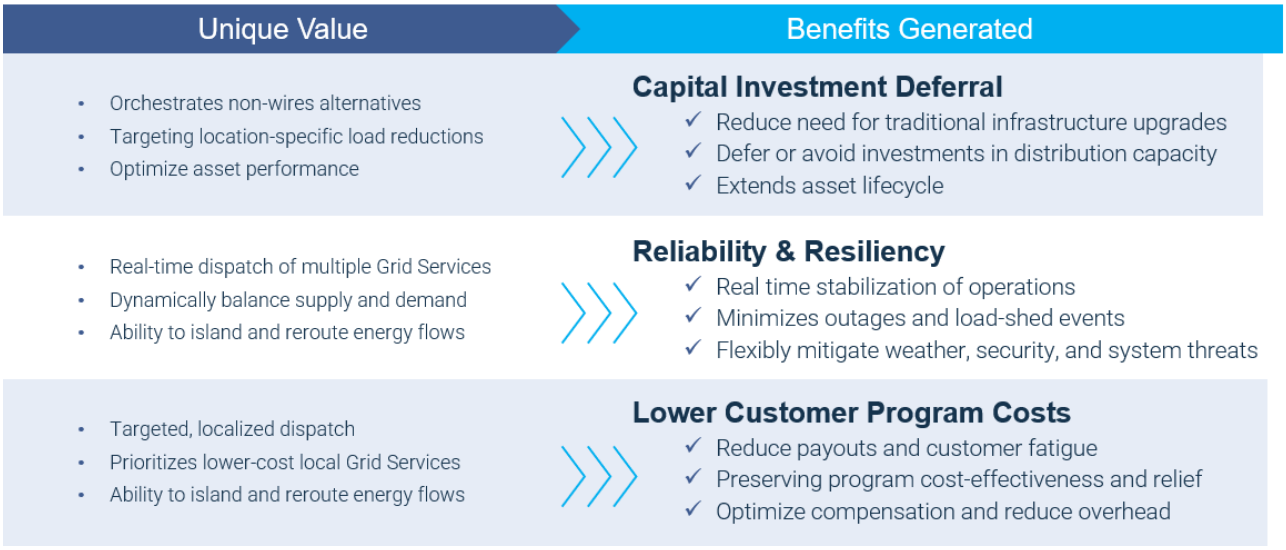
Unlocking the Value of Localized Grid Flexibility

Localized Grid Flexibility (LGF) is the coordinated use of multiple Grid Services— such as Demand Response, Volt/VAR Optimization (VVO), and Battery Energy Storage Systems (BESS)— to resolve distribution-level constraints in real time, optimize system performance, and reduce costs. As Distributed Energy Resources (DER) continue to proliferate, electrification accelerates, and climate resilience becomes critical, grid flexibility is becoming increasingly essential for reliable, cost-effective operations.

The TGO Alliance identified LGF as an emerging solution concept that can address distribution-level constraints with precision and agility. Rather than relying on isolated, program-by-program interventions, LGF will embrace a platform-based orchestration of Grid Services to target local constraints. It's not just about deploying more technology; it's about using what utilities already have more intelligently and in locally targeted ways.

But what will LGF actually deliver and how will electric utilities begin to quantify its value?

Top 3 Benefits LGF Could Unlock



1. Capital Investment Deferral

LGF will enable utilities delay— or in some cases avoid costly infrastructure upgrades by using non-wires alternatives like Demand Response, VVO, and BESS to manage local constraints. Instead of building new substations or upgrading feeders, utilities will be able to call for location-specific reductions to relieve stress on the grid. This will extend the useful life of existing assets and let planners prioritize capital where it is truly needed, especially in areas with uncertain load growth or high DER penetration.

2. Improved Reliability & Resiliency

LGF will enhance reliability by coordinating multiple Grid Services to stabilize operations and respond to localized conditions in real-time. By dynamically balancing supply and demand at the distribution level, utilities will be able to minimize outages and load-shed events.

In addition, LGF will support resiliency planning by enabling demand-reduction tactics, rerouting of energy flows, and pre-planned switching strategies—an important capability in regions facing extreme weather or aging infrastructure. The expected result: fewer and shorter outages, a better customer experience, and lower restoration costs and operational risk.

3. **Lower Customer Program Costs**

Traditional Demand Response often relies on system-wide activations that drive up incentive payouts and risk customer fatigue. LGF will shift this paradigm by enabling targeted, localized dispatch—activating Grid Services only where needed to relieve constraints. This precision will reduce unnecessary compensation and improve program cost-effectiveness, while preserving customer goodwill by avoiding overuse of DR events.

Top 3 Benefits LGF Could Unlock

Using the TGO Alliance's LGF Benefit-Cost Analysis framework, we have assessed several additional value streams that utilities can tailor to their context:

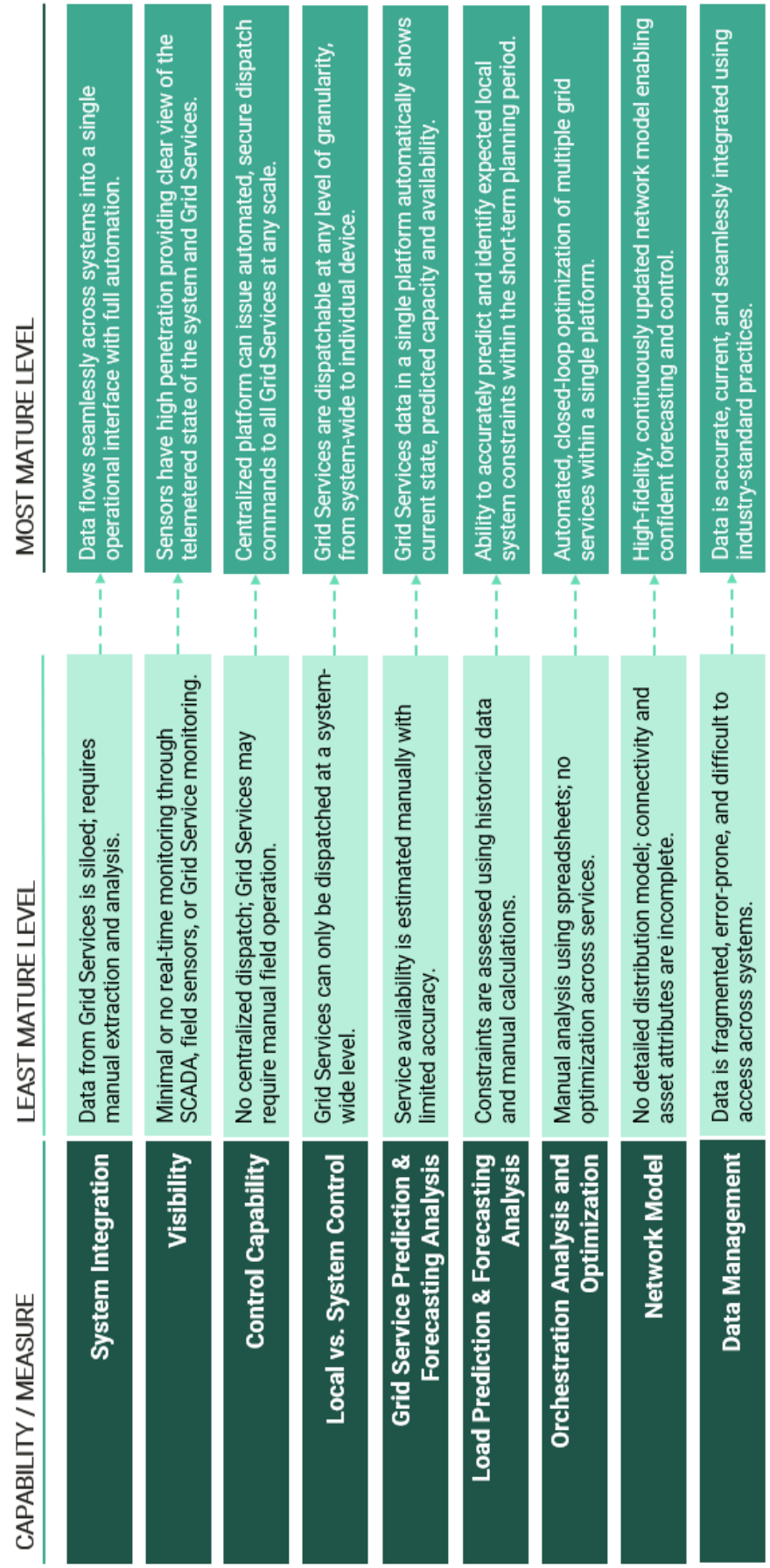
- **Reduced Engineering & Planning Effort** – Streamlined studies and fewer iterations.
- **Improved System Efficiency** – Lower system losses through localized optimization.
- **Carbon Emissions Reduction** – Demand reduction and DER integration shift generation to cleaner sources.
- **Shortened Interconnection Queue** – Faster DER connections through flexible interconnection management.
- **Improved Customer Experience** – Better power quality and fewer outages lead to higher satisfaction and trust.

Moving Forward & Getting Involved

While the potential benefits are compelling, quantification will vary by utility systems, regulatory environments, and data availability. The TGO Alliance working group explored sample calculations and modeling approaches but ultimately chose to develop a high-level BCA framework that utilities can adapt to their own context.

The TGO Alliance continues to refine LGF Deployment Playbook and measurement strategies. By aligning, refining, and sharing frameworks and best practices, we aim to help accelerate LGF from concept to implementable solution across the industry.

Localized Grid Flexibility Maturity Measures



Case Study

Innovative Distribution Planning

Rappahannock Electric Cooperative

Karan Patel

Managing Director - Energy Solutions and Clean Energy

IT/OT Implications for TGO

Discuss the importance of digital and data readiness to support grid orchestration solutions

Marcelo Sandoval

Director of Innovation and Technology Strategy

Landis+Gyr

Paul Moran

Principal Consultant, Integrated Solution Strategist

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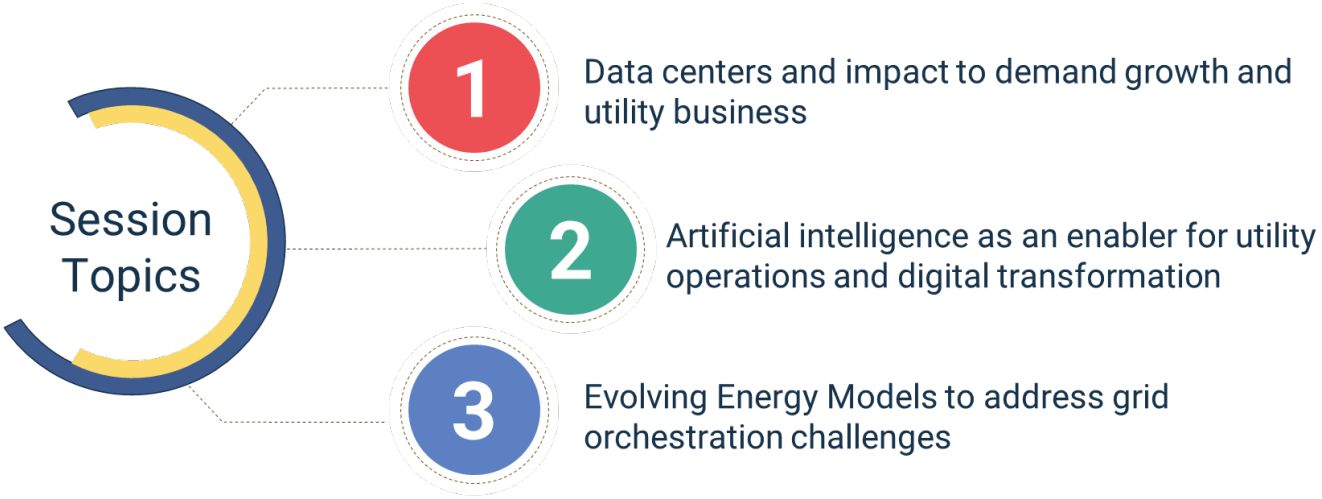
Rising Trend Breakout



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Andy Wickless	**Samir Succar**	**Paul Moran**
Cesar Miron	**Chaitanya Baone**	Andrew Fawcett
Cindy Schweitzer	Allie Broussard	Chris Rea
Eric Seiter	David Rodriguez	Eric Gupta
Jason Morris	Giovanni Herazo	Joe Zhou
Marcelo Sandoval	Joe Ciccarello	KJ Jain
Nicholas Bennett	Karan Patel	LeeRoy Perez
Nils Frenkel	Santhosh Jayasankar	Mark Ortiz
Patty Cook	Shishir Shekhar	Omni Warner
Ross Smith	Todd Weisrock	Surhud Vaidya

Please be back in the main area by 10:00 am.

Breakout Session: Impact & Prioritization Rubric (Page 1 of 2)

Topic: _____

1) Significance & Time Horizons

Impacts	Now	2-yr	5-yr	10-yr
Define & Describe Impact	*L/M/H*	*L/M/H*	*L/M/H*	*L/M/H*

2) List 3 – 5 benefits of leveraging or enabling this trend, including who benefits:

a.

b.

c.

d.

e.

Breakout Session: Impact & Prioritization Rubric (Page 2 of 2)

3) List 3 – 5 barriers, challenges, or blockers preventing utilities from effectively managing, supporting, or leveraging this trend:

    a.

    b.

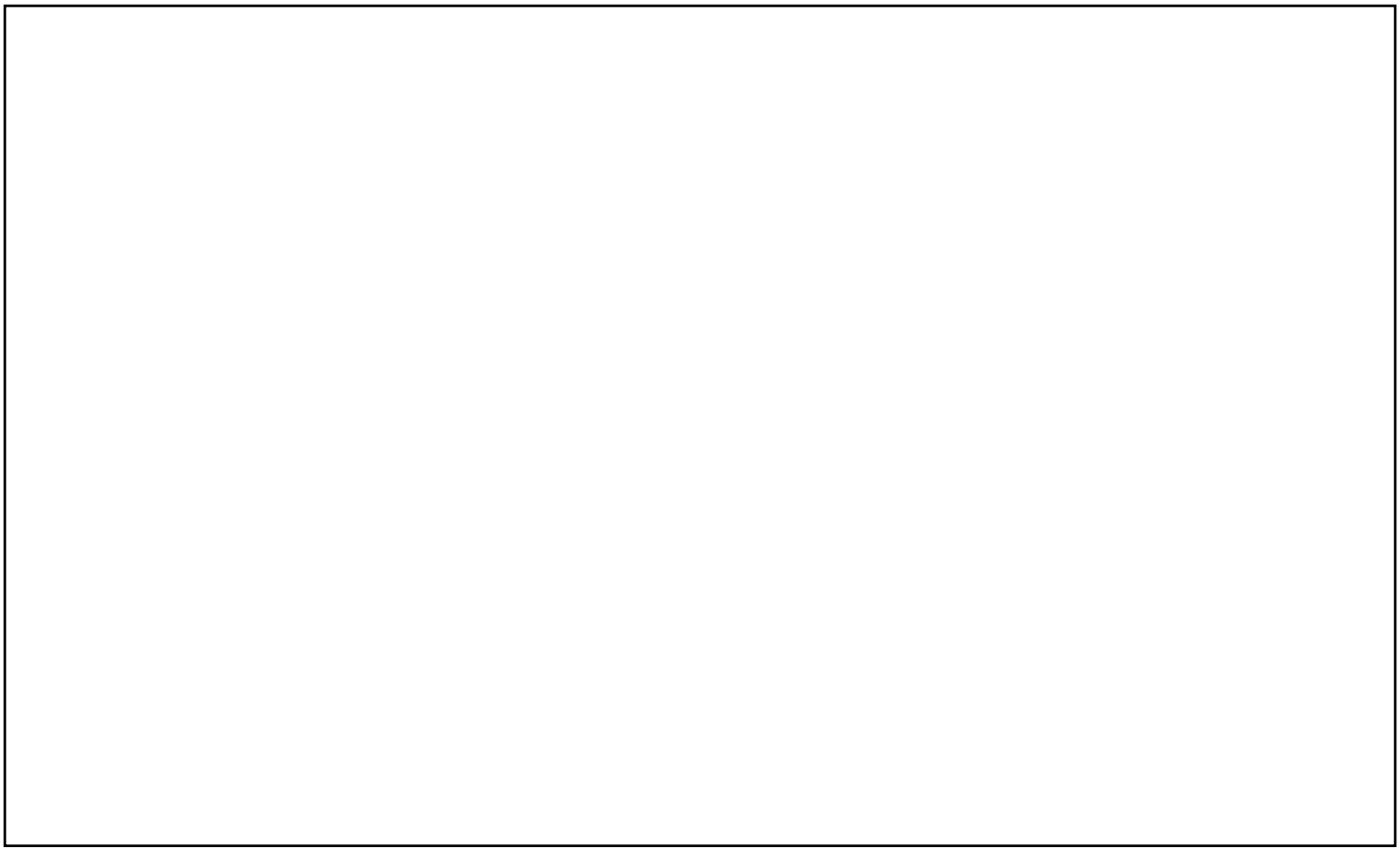
    c.

    d.

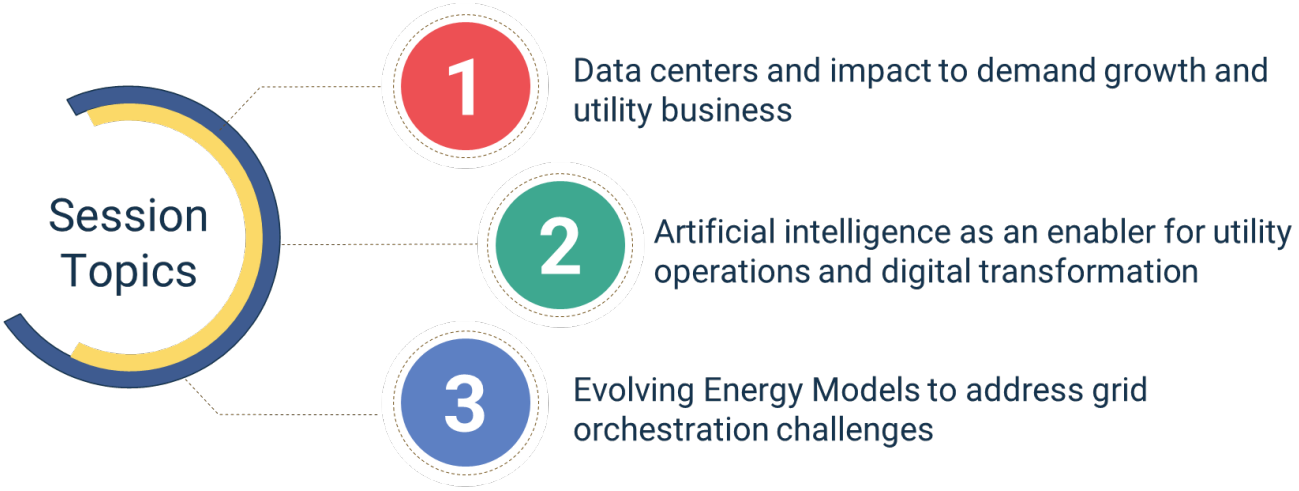
    e.

4) Priority for TGO Alliance to Focus on in 2026 (L/M/H) and why?

5) What TGO Capabilities are required to address this trend?



Rising Trend Regroup



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2

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Case Study

Real-Time Contingency Analysis

Cesar Miron

Manager of Operations Engineering

Case Study

One Digital Platform

Schneider Electric

Ross Smith

Digital Grid VP of Sales North America

Working Group 2026 Planning

Joe Zhou

Co-Chair, TGO Alliance
Infrastructure Advisory Markets Group Leader

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Connect with Attendees

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TGO Alliance

The Total Grid Orchestration (TGO) Alliance, a consortium of utilities and solution providers across North America, has committed to codifying the vision of the TGO concept. This utility-driven alliance shares a commitment to promoting dynamic, integrated, and transparent grid orchestration, enabling the grid platform to continue delivering reliable and affordable services.

The TGO Alliance fosters a collaborative forum to establish an industry-wide framework for grid orchestration across planning, engineering, and operation through a unified risk assessment and mitigation approach.

We strive to enhance situational awareness and integrated planning and operational capabilities across Generation, Transmission, Distribution, and BTM assets, maximizing distributed and variable energy supply and demand optimization. The TGO Alliance is working to create frameworks which can be utilized by solutions vendors, utilities, and the prosumer community to optimize the electric grid and deliver better outcomes through an agnostic and scalable approach.

Orchestrating the Grid to Enhance Reliability and Unlock Grid Resources

TGOAlliance.org