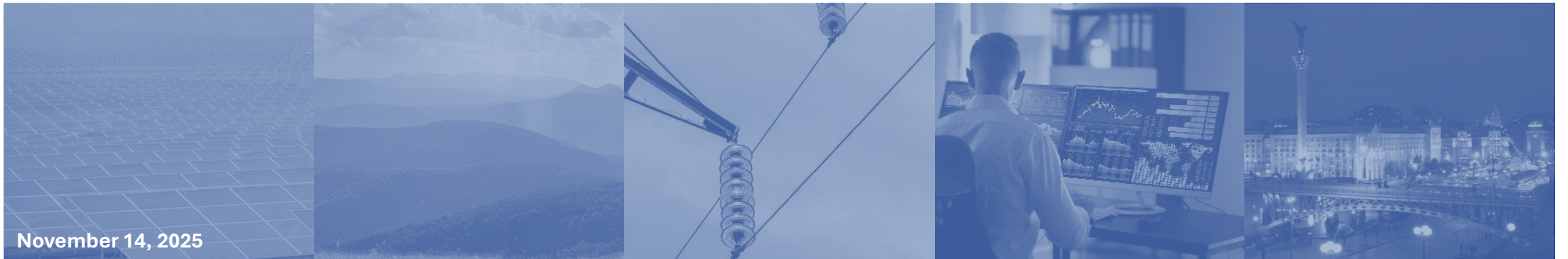


DISTRIBUTED GENERATION: FROM NATIONAL STRATEGY TO EXECUTION

November 14, 2025

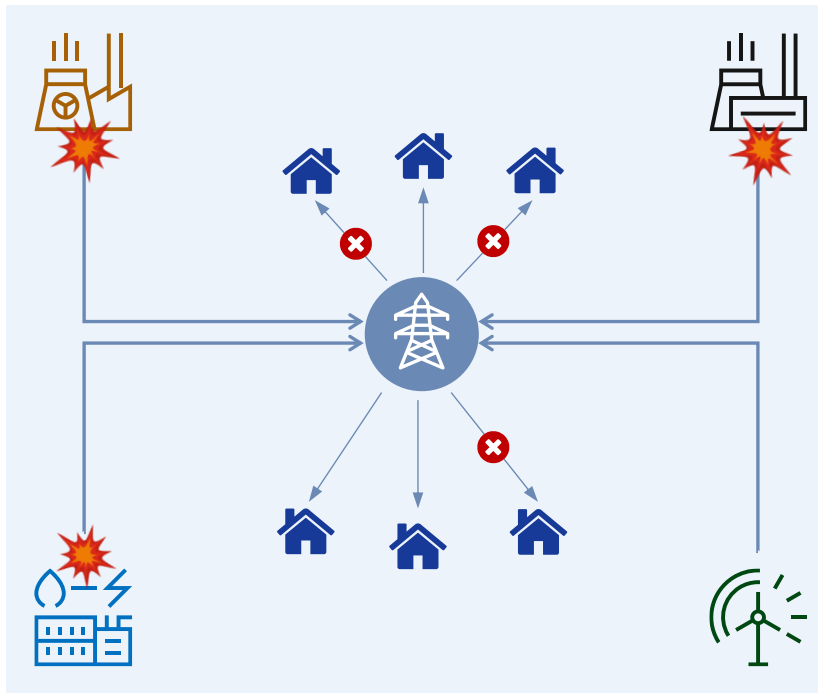


Ukraine's DG Strategy: Goals & Vision

- **Resilience:** distributed generation reduces attack risk
- **Independence:** renewables & local resources
- **Integration:** ENTSO-E alignment for stability & market access

Legacy Energy System

centralized & vulnerable

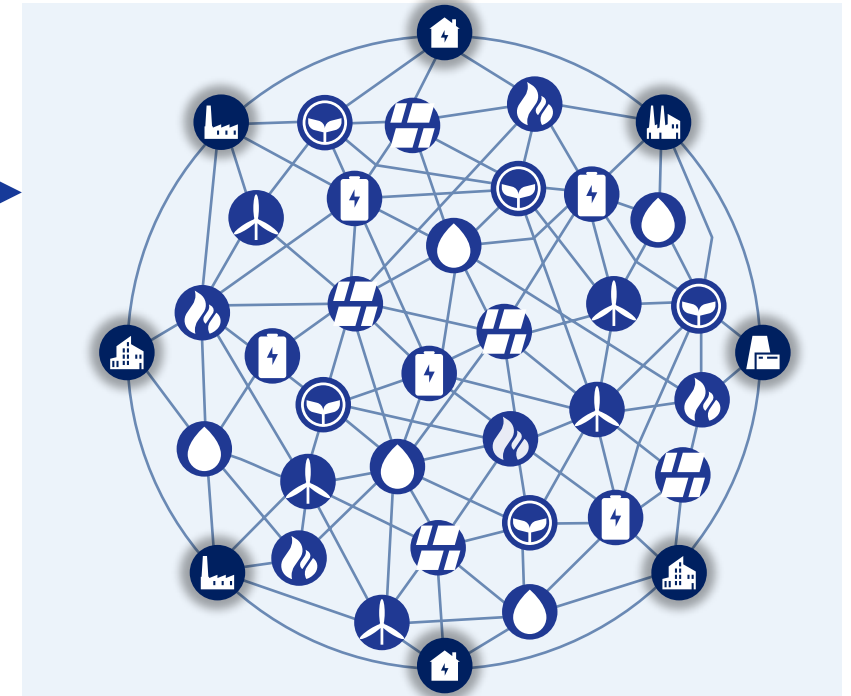


deployment

— modular
— scalable
— efficient
— integrated
— investment-enabled

Target Energy System

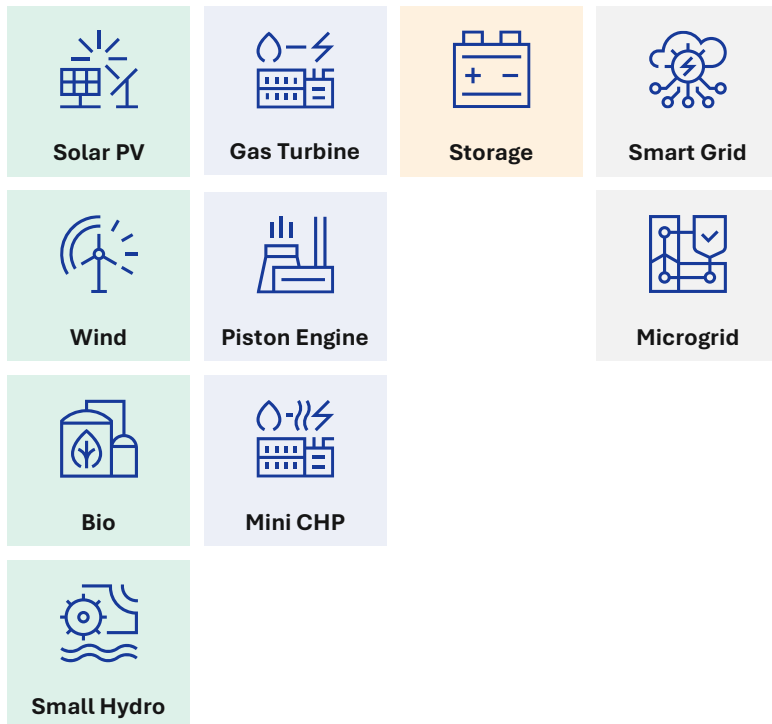
decentralized & sustainable



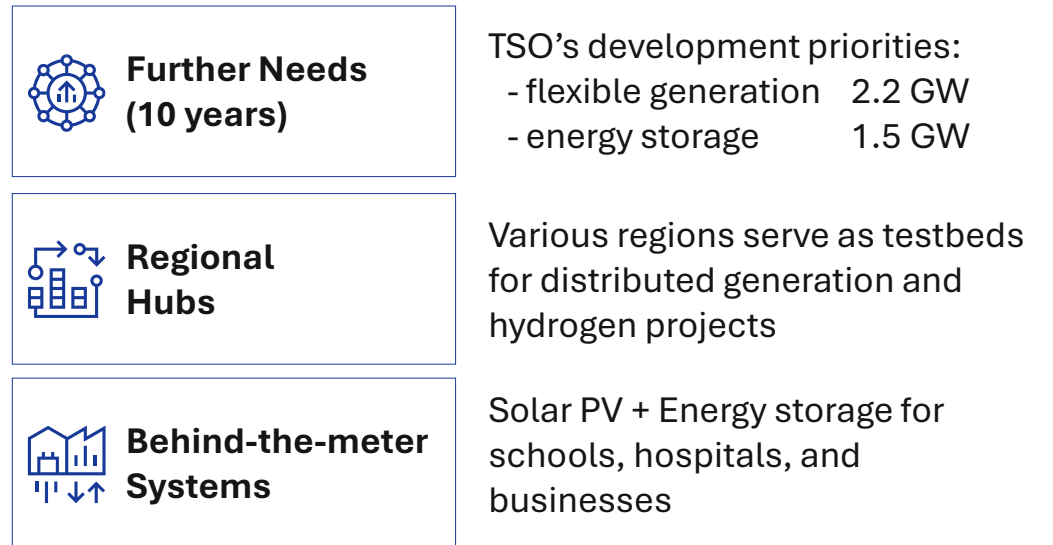
Ukraine's DG Strategy: Deployment Components

- Diversify technologies and integration models to accelerate distributed generation rollout
- Balance renewables, flexible gas assets, and storage to ensure reliability and sustainability
- Strengthen infrastructure and regional hubs for scalable, autonomous, and resilient operation.

Technology Diversification



Infrastructure Development



The power system's additional generation needs amount to around 15-17 GW, with ~20% expected from flexible capacities.

Ukraine's DG Strategy: Challenges & Opportunities

- Operate under conflict-driven uncertainty while protecting critical infrastructure
- Secure capital and partner ecosystems to accelerate distributed generation deployment
- Turn reconstruction into modernization and regional energy leadership

Challenges



Ongoing military threats



Financing gaps and investor risk



Need for grid modernization and distributed generation integration

Opportunities



Rebuilding with modern, resilient technologies



Becoming a regional energy exporter



Leveraging Ukraine's renewable potential and skilled workforce

ECU DG paradigm: Business Model for DG



Asset Ownership & Financing

- Utility-owned
- Third-party-owned
- Customer-owned
- Capex-lite Models



Revenue Stack

- Energy Sales
- Grid Services
- Capacity Payments
- Energy-as-a-Service



Technology Integration (by ECU)

- Real-time Dispatch
- Lifecycle O&M Management
- Market Access
- AI-driven Optimization



Value Proposition

For Utilities:

Reduce congestion, defer grid upgrades, improve reliability

For Customers:

Lower energy costs, resilience, sustainability

For Investors:

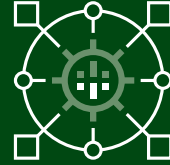
Predictable returns via long-term commercial dispatch / aggregation contracts

ECU DG paradigm: Strategic Framework & Implementation



National DG Operator

-  Load planning and demand forecasting for DG sources
-  Dispatching operations to meet grid requirements
-  Electricity trading in competitive market segments
-  Imbalance optimization for grid stability



Local Empowerment

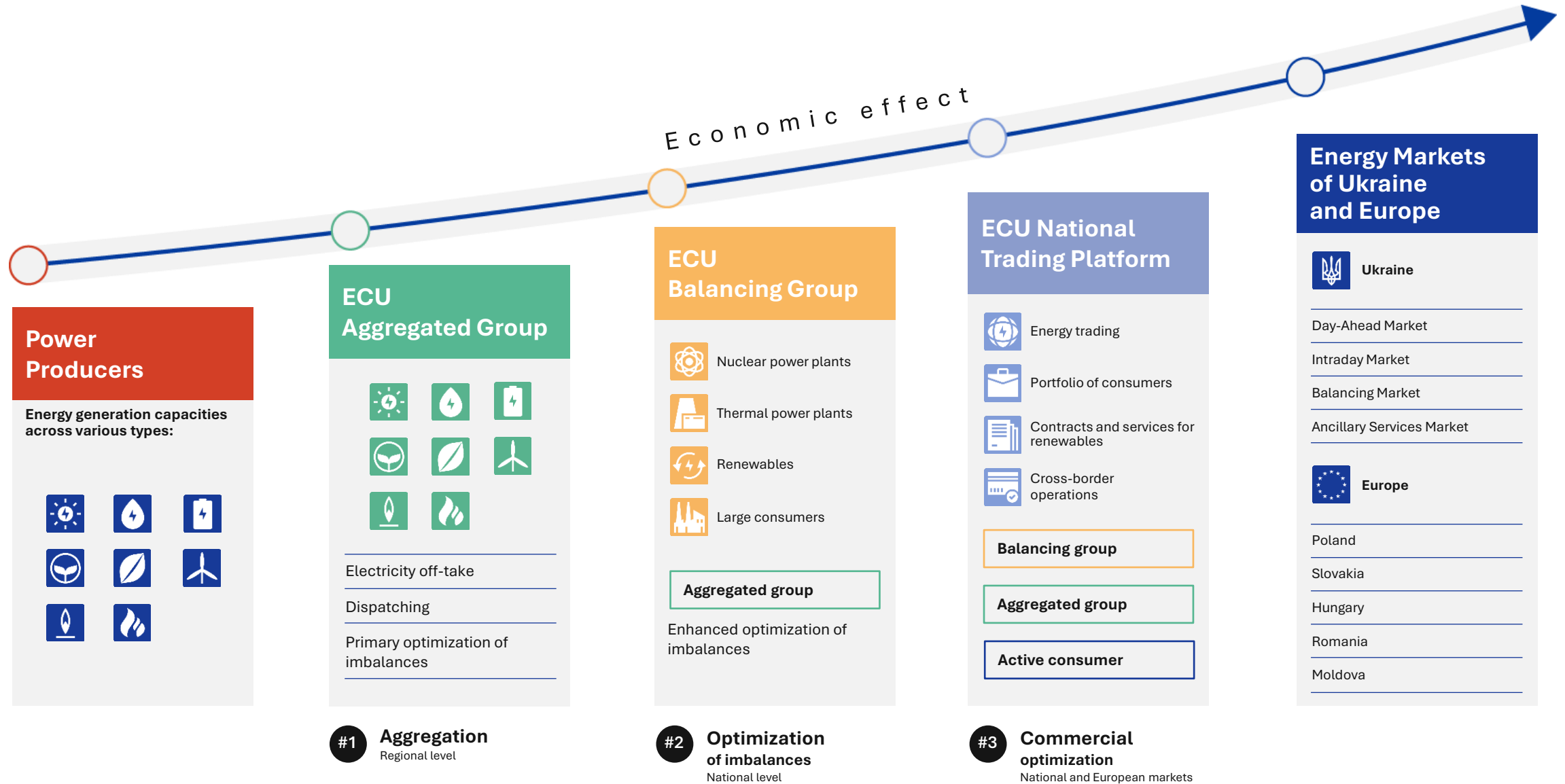
-  End-to-end consulting for investors and communities
-  Community-centric development with municipal partnerships
-  Critical infrastructure projects with specialized division
-  Technical solution selection and permit acquisition



Market Integration

-  Financial sustainability model for distributed generation projects
-  Aggregated groups to enhance market participation
-  Access to state-supported loan programs
-  ENTSO-E alignment for grid operational standards

ECU DG paradigm: Value Chain for Investors in Ukraine



ECU DG paradigm: Strategic Impact & Future Vision

Strategic Alignment

- ✓ ECU's multifaceted approach operationalizes Ukraine's Distributed Generation paradigm, creating a comprehensive framework for implementation
- ✓ The strategy de-risks investment through financial sustainability models and technical support, encouraging wider adoption of DG technologies
- ✓ Community-centric development empowers local actors to participate in energy production, strengthening local economies and energy security

Future Vision



ECU is accelerating Ukraine's transition to a secure, resilient, and decentralized energy future through coordinated market integration, community engagement, and strategic financial models that ensure long-term sustainability.