Energy OS Public Demo Report

Energy Resilience and Continuity Simulation Pathway

This document presents a public demonstration overview of Energy OS within the IYABOKO Science & Technology ecosystem. Energy OS is positioned as a research-stage and planning-stage continuity simulation pathway for energy resilience, infrastructure stress modelling, forecasting support, and recovery-pathway review.

Project Objective

Energy OS explores how continuity-aware software can support planning for energy infrastructure stress, storage instability, demand variation, disruption response, and recovery modelling.

Core Demonstration Components

- Grid stability analysis
- Demand spike simulation
- Storage instability modelling
- Regional disruption scenario review
- Continuity Score monitoring
- Recovery-readiness pathway assessment

Continuity OS Role

Continuity OS provides scoring and reporting logic to evaluate resilience, restoration readiness, operational continuity, and planning-stage recovery scenarios.

Public Trust Value

The public demo helps visitors understand that IYABOKO is developing structured simulation and planning methods rather than making unverified claims of certified grid-control operation.

Simulation / Demonstration Test Matrix

Scenario	Main Stressor	Measured Output
Demand Spike Event	High load pressure	Continuity score and recovery capacity
Storage Instability	Storage fluctuation	Forecast variance and stability response
Regional Disruption	Partial infrastructure failure	Recovery route and service continuity
Resilience Planning	Combined demand and supply stress	Planning report and validation needs

Prototype Demonstration Metrics

- Continuity Score: 92% demonstration value
- Recovery Readiness: 84% demonstration value
- Simulation Runtime: 1000+ continuity test steps
- Current Status: Research-stage planning and simulation pathway

Boundary Statement

Energy OS is presented as a research-stage and planning-stage simulation environment. It is not presented as certified grid-control software, government-approved infrastructure management software, regulated utility-control infrastructure, or independently validated operational energy software.
