

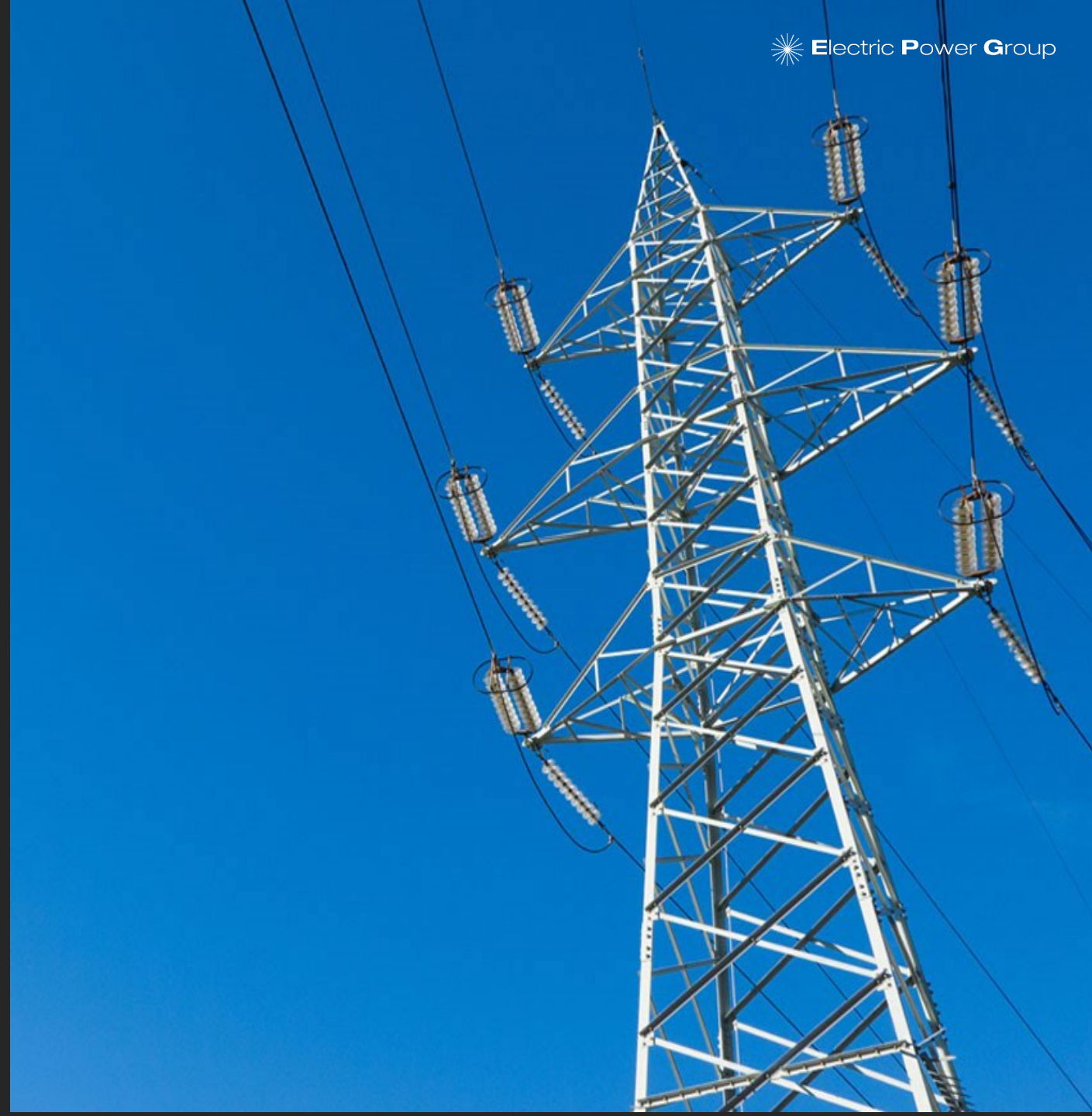
EPG SYNCHROPHASOR SOLUTIONS



NASPI Workgroup Meeting, Minneapolis



April 15, 2025



EPG IS THE LEADER IN WAMS & SYNCHROPHASOR TECHNOLOGIES

- Established in 2000 by an experienced team of electric utility executives
- EPG's team includes internationally acknowledged industry **experts in phasor technology**
- EPG portfolio of **Synchrophasor Applications** are designed for use for real-time operations at Transmission Companies and Independent System Operators (ISO)
- Solutions offer Advanced Applications for Real-Time and Off-Line Analytics
- Solutions are **architected and designed to integrate** with existing customer infrastructure and all brands of PMUs, EMS/SCADA, and other vendor offerings
- EPG **WAMS solutions are in use by** over 30 Grid Operators and Transmission Utilities for WAMS, LSE, Analytics and Advanced Applications
- EPG Global Headquarters in USA, EPG International Headquarters based in Delhi, India

GLOBAL AND GROWING CUSTOMER BASE



COMPREHENSIVE PRODUCTS PORTFOLIO

Phasor Data Management

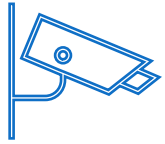


WAMS Real-Time Analytics, Monitoring & Reports | Linear State Estimation | Synchrophasor EMS

Offline Analytics | Substation Applications | Training

Big Data Analytics

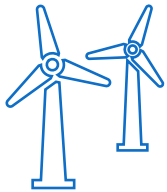
SPOTLIGHT ON EPG'S SYSTEM INERTIA MONITORING



Real-time Inertia Monitoring – 24/7 assessment of system inertia



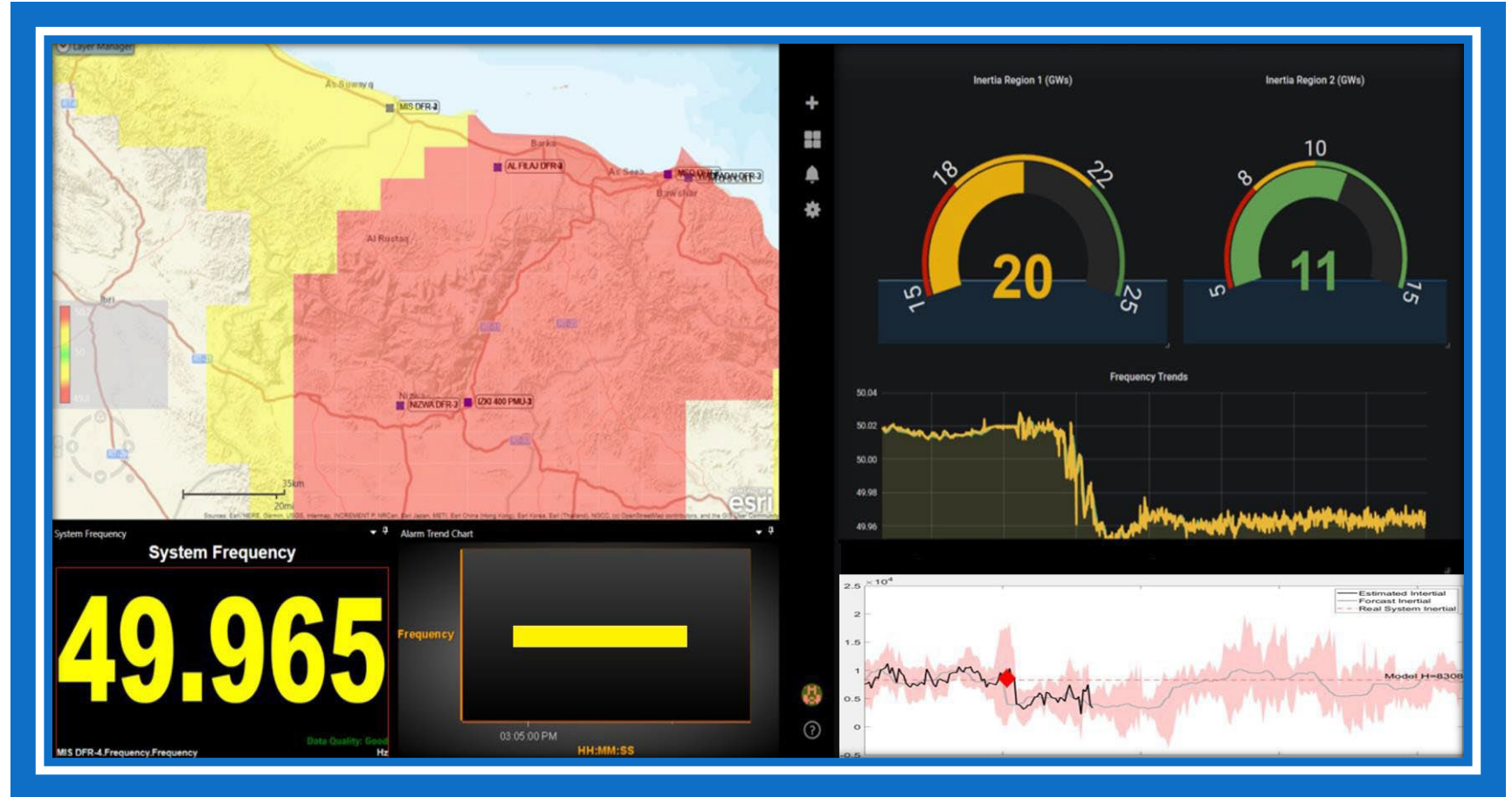
Uses both ambient PMU data as well as event data during Frequency Disturbances



Assessment of Individual Generator and Local Area for overall Inertia



Day Ahead Forecasting Using Machine Learning / AI



System Inertia has been integrated with RTDMS / WAMS

SYNCHROPHASOR TECHNOLOGY IN CONTROL CENTERS

- PDC – Data Collection, Concentration, Archiving, and Distribution
- WAMS – Visualization, Alarming, Event Diagnostics, Advanced Applications
- IBR Management – Integration, Dynamic Performance, Event Ride-Through
- Oscillation Detection, Monitoring, and Source Location
- Inertia and System Strength Monitoring and Forecasting
- Linear State Estimator
- Generator Model Validation & System Model Validation
- WAMPAC
- Synchrophasor Real Time Contingency Analysis (RTCA)
- Synchrophasor Real Time Assessment
- Synchrophasor EMS

WHY GRID OPERATORS CHOOSE EPG WAMS SOLUTIONS

- EPG is a synchrophasor and advanced technology solutions focused Software Company
- Industry Leader for 20+ years and 300+ person years invested in Synchrophasor Technology
- Large installed WAMS base – 80% US Grid and growing number of customers internationally
- Scalable - largest current deployment sized for 72,600 phasors
- Strong domain expertise with experienced SMEs in Synchrophasors
- Broadest suite of production grade applications available in the market
- Best in class technology capabilities with robust roadmap
- Open Architecture and interoperable solutions
- Integration - standard protocols
- Intuitive, easy to use, and customizable GUI
- “Customer First” Approach to Support
- Strong history of successful project execution

THANK YOU



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