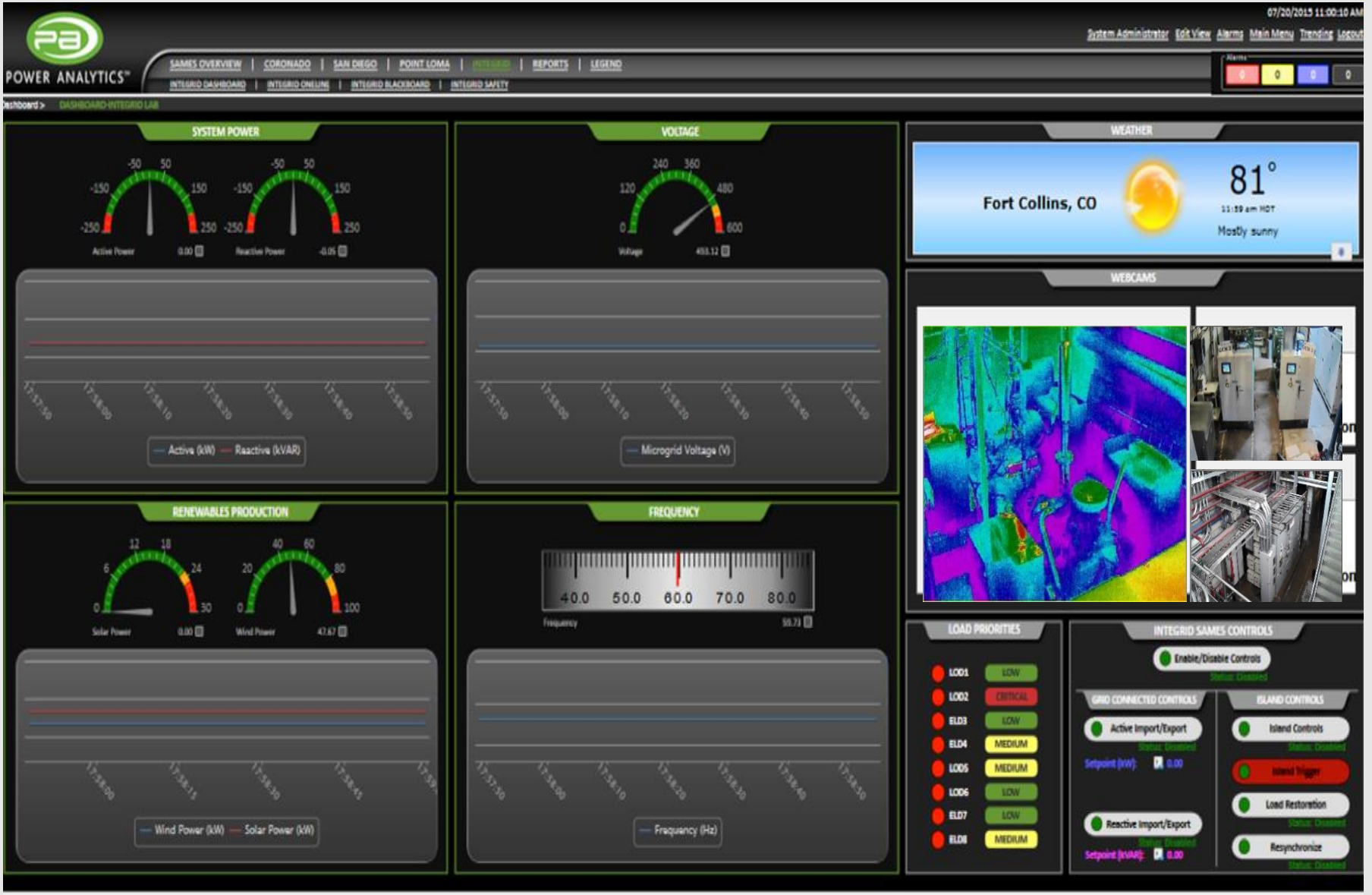
Paladin® Microgrid Power Management System™ (MPMS)

Optimization of microgrid operations with controls for load and generation

Paladin® Microgrid Power Management System™ is the first commercially available software platform designed specifically for the online management and control of next-generation "hybrid" power infrastructure incorporating both traditional utility power and on-premise power generation, e.g., solar power, wind turbines, battery storage. It optimizes energy consumption in multi-energy source sites, whether they are focused on a single objective – such as minimizing the annual cost, carbon footprint, peak load, or public utility consumption – or a combination of objectives that vary by time, costs, energy source reliability, etc. Paladin® MPMS helps by:

- Serving as a master controller for intelligent smart grid design, monitoring and trading (i.e., selling electricity back into the public grid)
- Monitoring in real-time microgrid power quality, utilization and capacity, in order to offer excess capacity to the smart grid
- Monitoring all transactions between public electric service and micro grid infrastructure
- Maintaining rate and pricing information for management of private-public exchange


POWER ANALYTICS
CORONADO
SAN DIEGO
POINT LOMA
INTEGRID
REPORTS
BOUND
CORONADO OVERVIEW
SOURCE STATUS & STABILITY
SAN DIEGO OVERVIEW
SOURCE STATUS & STABILITY
POINT LOMA OVERVIEW
SOURCE STATUS & STABILITY
AccuWeather.com
COST OVERVIEW
SUPPLY COSTS
NET ECONOMIC BENEFIT


POWER ANALYTICS
07/20/2015 11:00:10 AM
System Administrator Edit View Alarms Main Menu Trending Logout
SAMES OVERVIEW | CORONADO | SAN DIEGO | POINT LOMA | INTEGRID | REPORTS | LEGEND
INTEGRID DASHBOARD | INTEGRID ONELINE | INTEGRID BLACKBOARD | INTEGRID SAFETY
Dashboard > DASHBOARD-INTEGRID LAB
SYSTEM POWER
Active Power
Reactive Power
Active (kW) Reactive (kVAR)
VOLTAGE
Voltage
Microgrid Voltage (V)
WEATHER
Fort Collins, CO
81°
11:59 am MDT
Mostly sunny
WEBCAMS
RENEWABLES PRODUCTION
Solar Power
Wind Power
Wind Power (kW) Solar Power (kW)
FREQUENCY
40.0 50.0 60.0 70.0 80.0
Frequency
Frequency (Hz)
LOAD PRIORITIES
LOD1 LOW
LOD2 CRITICAL
ELD3 LOW
ELD4 MEDIUM
LOD5 MEDIUM
LOD6 LOW
ELD7 LOW
ELD8 MEDIUM
INTEGRID SAMES CONTROLS
Enable/Disable Controls
GRID CONNECTED CONTROLS
Active Import/Export
Setpoint [kW]:
Reactive Import/Export
Setpoint [kVAR]:
ISLAND CONTROLS
Island Controls
Island Trigger
Load Restoration
Resynchronize