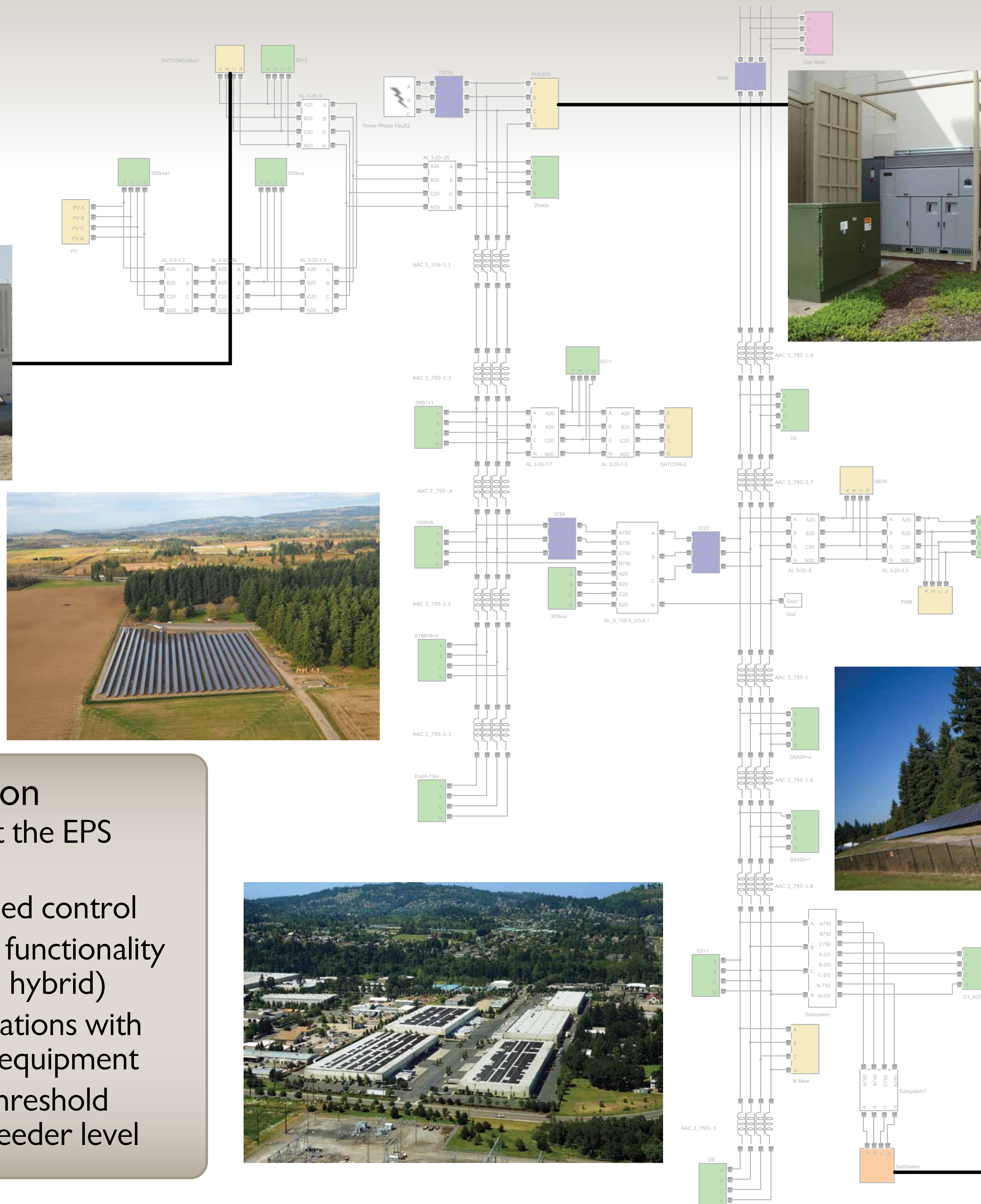


TRANSFORMING PV INSTALLATIONS TOWARD DISPATCHABLE, SCHEDULABLE ENERGY SOLUTIONS

MICHAEL MILLS-PRICE, SEGIS-AC PROGRAM MANAGER, AE SOLAR ENERGY



- Distributed PV resource
- Capacitor bank
- Distributed measurement location
- Customer loads



Island Detection for High Penetration PV

- Wide-area information based solution
- Enables voltage regulation functions
- Multi-pronged solution (Communications-based with local backup)
- Uncompromised safety
- Economical alternative to transfer-trip

Ramp Rate Controller:

- Closing the gap between PV generation and traditional generation
- 'Firming' PV by providing symmetrical ramp rate control
- Identification of economically viable and deployable storage

Feeder Level Optimization

- Control schemes to benefit the EPS (Electric Power System)
- Wide-area information based control
- Modal selection of support functionality (supervisory, autonomous, hybrid)
- Improvement in inter-operations with existing voltage regulation equipment
- Increases PV penetration threshold improving grid stability at feeder level



SEGIS-AC Program Partners



A PHI Company



Portland General Electric



SCHWEITZER ENGINEERING LABORATORIES