

Hybrid Systems Control

Jim Manwell

University of Massachusetts

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Aspects:

- Monitoring
- Communication
- Control

Issues:

- System Size
- Single/Multi generators
- Paralleling
- Intrinsic control/System control
- Sensors
- Internal/External Communication

Requirements:

- Safety
- Protection
- Understandable
- Repairable

Monitoring & Power Quality:

- Control decision
- Fault Detection/Diagnosis
- Good quality appreciated

Equipment Hardware

- Robust
- User friendly
- PC's / PLC's

Supervisory Control

- Integration of Components
- Multiple Functions
- Load Management
- “Optimal” Control
- Storage/Dump Loads
- Diesel Dispatch
- Dispatchable Renewables

Common Language?

Do we need a common language so that all of the components in an hybrid power system can talk to each other and the supervisory controller without a great deal of system specific coding and control logic?