Smart Inverter Deployment

Mike Taylor
Principal of Knowledge

Smart Electric
Power Alliance
About SEPA

SEPA’s mission is to facilitate the utility industry’s smart transition to a clean energy future through education, research, and collaboration.

COMMUNITY
Members, Events, USC, Fact Finding Missions, Partnership Opportunities, Power Player Awards

DATA
USD, Solar Calculators, Mapping Tools, Research Reports, Project and RFP News, Custom Research Solutions

INSIGHTS
Advisory Services, Webinars, Workshops, Case Studies, SEPA Publications, Blog, Expert Commentary
Inverter Evolution

1. Current: Monitor and Disconnect

2. Smart 1.0: Monitor and React

3. Smart 2.0: Monitor, Communicate and Carry Out
Advanced Inverter Functionality

1. Ride-Through Grid Disturbances
2. Provide Voltage Support
3. Allow Grid Operator Interactivity
Active Deployment Models

1. Grid Crisis

2. R&D

3. Policy
Potential Deployment Models

4. Market Pull

5. Utility Ownership

6. Shared Service
Takeaway

1. Equipment Standards Are Not Keeping Pace with Technology Advancement

2. Autonomous Grid Support Can Be Deployed At Low Cost

3. Communication Functions Are a Tradeoff Between Capabilities and Cost

4. Inverter Retrofits Can Be Managed Effectively
1. Free
2. Approachable
3. sepapower.org
Thank you

Mike Taylor
Principal of Knowledge
mtaylor@seepower.org
202-559-2028