Smart Inverter Deployment

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Principal of Knowledge

Smart Electric Power Alliance

About SEPA

Smart Electric Power Alliance

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

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1. Ride-Through Grid Disturbances

2. Provide Voltage Support

3. Allow Grid Operator Interactivity

Active Deployment Models

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1. Grid Crisis

Hawaiian Electric Company

2. R&D

aps

3. Policy

Pacific Gas and Electric Company®

Potential Deployment Models

4. Market Pull

5. Utility Ownership

6. Shared Service

Takeaway

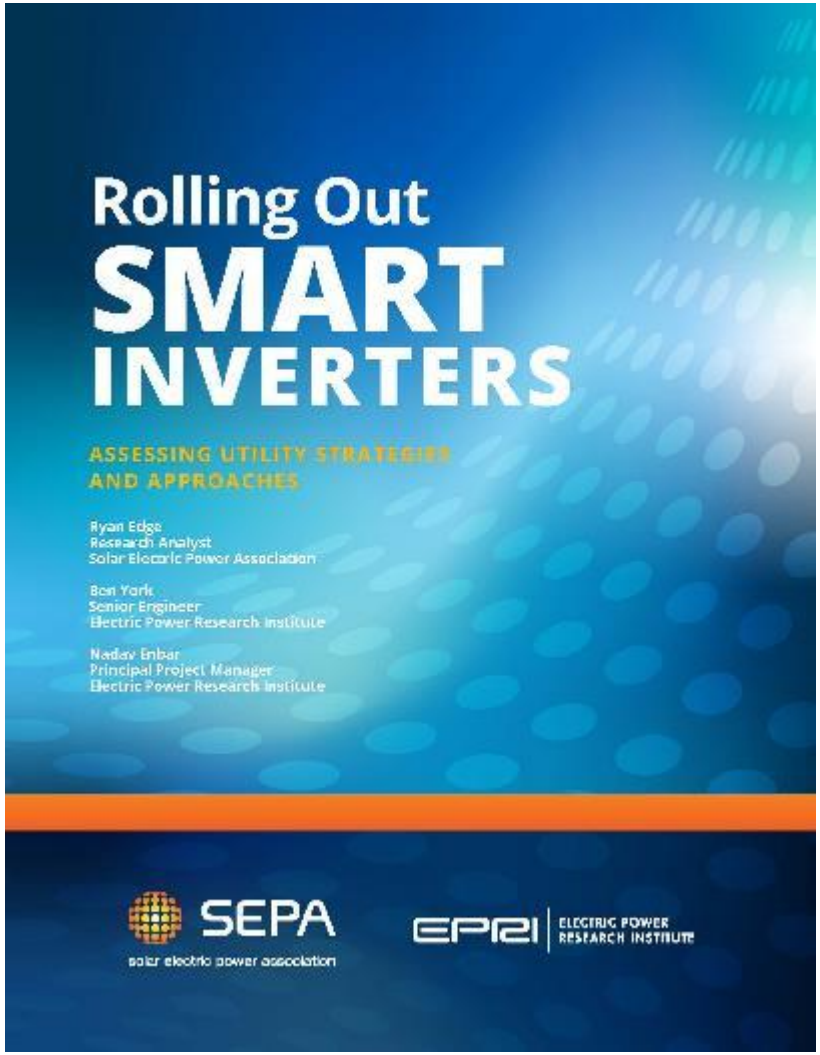
1. Equipment Standards Are Not Keeping Pace w/ Technology Advancement

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

SEPA Report



1. Free
2. Approachable
3. sepapower.org

Thank you

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