

# FEDERAL UTILITY PARTNERSHIP WORKING GROUP SEMINAR

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## Best Practices Performance Issues and Resolutions

Hosted by:



# Performance Shortfall Timeframes

- Pre-acceptance performance-shortfall
  - At initial commissioning and/or initial performance verification
- Post-acceptance performance shortfall
  - Within the one year warrantee period
- Post-warrantee period performance shortfall
  - Beyond the one year warrantee period

# Pre-Acceptance-Shortfall Resolution

- Define commissioning plan and any additional baseline PV measurements in Task Order or during implementation subject to CO approval
- Identify issues and define solution
- Make corrections to installation to achieve designed performance
- Commission in accordance with Task Order and manufacturer's and/or industry standards

# Post-Acceptance Performance Shortfall

- Define performance verification plan in Task Order or during implementation subject to CO approval (periodic / seasonal measurements etc.)
- Identify issues (operation, maintenance, equipment etc.) and define solution
- Corrections made to installation for designed performance may include negotiated resolution
- Commission in accordance with Task Order and manufacturer's and/or industry standards

# Post-Warranty Period Shortfall

- Identify issues (operation, maintenance, equipment etc.) and define solution
- Determine solution and cost to resolve performance issue
- Determine responsibility for cost to resolve issue(s) if any – potential negotiation
- Opportunity to strengthen partnership
- Opportunity to develop additional ECMs

# Best Practices

- Review and approve commissioning plan
- Review and approve performance verification plan (include frequency of measurements)
- Witness commissioning and performance verification activities
- Define responsibility in Task Order for performance shortfall within year one
- Perform O&M requirements
- Consider extended warranty if needed