

**SOUTHWEST POWER POOL
ELECTRIC STORAGE RESOURCE STEERING COMMITTEE MEETING**

Conference Call/WebEx – March 3, 2020

MINUTES

AGENDA ITEM 1 – ADMINISTRATIVE ITEMS

SPP Chair Holly Carias called the meeting to order at 1:40 p.m. All ESRSC representatives were in attendance and a quorum was established. David Schmitt was proxy for John Krajewski (CAWG).

AGENDA ITEM 2 – REVIEW OF ESRSC SCOPE

Holly Carias reviewed the draft ESRSC Scope document. The Regional Tariff Working Group chair was added to the representation and scope item 6 was clarified. The ESRSC Scope was adopted as modified.

AGENDA ITEM 3 – REVIEW OF STORAGE ISSUES WHITEPAPER

Richard Dillon led a review of the Electric Storage Whitepaper to validate the working group assignments. Assignments were reviewed and adjusted through item Tx17. Review of the remaining items will be completed in a meeting on March 13, 2020.

NEXT MEETING

March 13, 2020 - Conference/Webex

ADJOURNMENT

Holly Carias adjourned the meeting at 3:00 p.m.

Respectfully Submitted,

Richard Dillon
Secretary

ELECTRIC STORAGE RESOURCE STEERING COMMITTEE MINUTES

March 3, 2020

Attachments

Electric Storage Resource Steering Committee Scope

Summary of Working Group Assignments

Session detail for 'Electric Storage Resources Steering Committee Net Conference':

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SOUTHWEST POWER POOL, INC.
Electric Storage Resources Steering Committee

Organizational Group Scope Statement
March 3, 2020

PURPOSE

The Electric Storage Resources Steering Committee (ESRSC) is a task force that will coordinate and direct various working groups in development of policy and procedure recommendations to the Markets and Operations Policy Committee (MOPC) regarding grid integration of electric storage resources (ESRs). Policies developed to integrate ESRs should seek to maximize the flexibility of ESRs while maintaining reliable and economic operations.

SCOPE OF ACTIVITIES

In carrying out its purpose in the integration of ESRs, the ESRSC will:

- 1) Ensure appropriate working groups are assigned to develop policy recommendations
- 2) Develop a timeline for the working groups to develop the policy recommendations
- 3) Provide guidance, scope and interpretation to the working groups on the policies for which they are responsible to develop a recommendation
- 4) Resolve conflicts between the working groups regarding scope and overlapping policy needs
- 5) Report to the MOPC and Strategic Planning Committee on the status of the policy development
- 6) Ensure policy recommendations are made to the MOPC regarding integration of ESRs
- 7) Direct applicable working groups on development of tactical recommendations to implement approved policy recommendations

REPRESENTATION

The ESRSC is comprised of the chairs of the MOPC, Economic Studies Working Group, Market Working Group, Operating Reliability Working Group, Regional Tariff Working Group, Supply



Adequacy Working Group, and Transmission Working Group. The chair of the Cost Allocation Working Group will serve as a liaison member of the ESRSC.

DURATION

The ESRSC will conclude its work when the MOPC has approved policies and related tactical recommendations necessary to facilitate integration of ESRs in the SPP network. Policies are expected to be approved by January 2021.

REPORTING

The ESRSC reports to the MOPC.

ESR Steering Committee

Summary of Working Group Assignments

	CAWG	ESWG	MWG	MMU	ORWG	RTWG	SAWG	TWG	Staff
Tx1		✓			✓			✓	
Tx2									✓
Tx3						✓		✓	
Tx4	✓								
Tx5						✓			
Tx6			✓					✓	
Tx7			✓			✓			
Tx8					✓				
Tx9				✓					
Tx10	✗	✗	✓		✓	✗		✗	
Tx11								✓	✓
Tx12	✓		✓			✓			
Tx13			✓		✓	✓			
Tx14			✓		✓				
Tx15			✓		✓		✓		
Tx16							✓	✓	✓
Tx17							✓	✓	✓
Tx18	X						X		
Tx19	X						X	X	X
Tx20							X		X
E1								X	X
E2			X		X				X
E3			X		X				
E4					X				X
E5			X		X				
E6					X				
E7			X		X	X			
E8									X
E9			X		X				X
C1					Y		X		
C2					X		X		
C3					X		X		
T1						X			X
T2	X					X			X
T3						X			X
T4			X			X			X
T5	X					X			

Strategic Planning Committee

Strategic Planning Committee should recommend to the board the extent and timing of SPP's support for multi-use ESRs; specifically, ESRs used as both transmission and energy/capacity

✓ Primary Group

✗ Secondary Group

ESR Steering Committee

Summary of Working Group Assignments

Cost Allocation Working Group

Tx4. Reconcile ESR cost-recovery policies

Tx12. Determine policy for market revenues of ESR transmission facilities

Tx18. Determine appropriateness of capacity resource cost recovery in transmission charges

Tx19. Develop procedure for identifying capacity resource costs of ESR transmission facilities

T2. Develop tariff changes defining ESR retail vs. wholesale service

T5. Recommend tariff changes for mobile retail ESRs

Economic Studies Working Group

Tx1. Reconcile ESR duration with transmission planning scenario

Market Working Group

Tx6. Decide if SPP invoices energy costs for ESR transmission facilities

Tx7. Decide whether to require and invoice transmission service for ESR transmission facilities

Tx10. Develop procedures for ESRs used as energy and transmission

Tx12. Determine policy for market revenues of ESR transmission facilities

Tx13. Develop settlement procedures for separating energy and transmission

ESR Steering Committee

Summary of Working Group Assignments

Tx14. Determine responsibility for charging multi-use ESRs

Tx15. Develop policy for ESRs used for capacity, energy and transmission

E2. Develop process for modeling and controlling ESR hybrid configurations

E3. Study costs/benefits and develop tariff changes for fast-start ESR charging

E5. Determine feasibility of regional aggregation for reserve-only ESRs

E7. Determine ESR qualification for ERS or ORS

E9. Analyze the cost/benefit of adding SPP charging control

T4. Evaluate changes to market registration requirement

Market Monitoring Unit

Tx9. Develop market power procedures for ESR transmission facilities

Operating Reliability Working Group

Tx1. Reconcile ESR duration with transmission planning scenario

Tx8. Determine responsibility for charging ESR transmission facilities

Tx10. Develop procedures for ESRs used as energy and transmission

Tx13. Develop settlement procedures for separating energy and transmission

ESR Steering Committee

Summary of Working Group Assignments

Tx14. Determine responsibility for charging multi-use ESRs
Tx15. Develop policy for ESRs used for capacity, energy and transmission
E2. Develop process for modeling and controlling ESR hybrid configurations
E3. Study costs/benefits and develop tariff changes for fast-start ESR charging
E4. Determine limits for fast-responding ESRs
E5. Determine feasibility of regional aggregation for reserve-only ESRs
E6. Develop requirements for non-conforming load from unregistered ESRs
E7. Determine ESR qualification for ERS or ORS
E9. Analyze the cost/benefit of adding SPP charging control
C2. Determine ESR duration and availability requirement
C3. Determine maximum amount of ESRs allowed in resource adequacy portfolio
Regional Tariff Working Group
Tx3. Reconcile lifespans of ESRs and other transmission facilities
Tx5. Develop policy for ESR costs in ATRR
Tx7. Decide whether to require and invoice transmission service for ESR transmission facilities

ESR Steering Committee

Summary of Working Group Assignments

Tx12. Determine policy for market revenues of ESR transmission facilities

Tx13. Develop settlement procedures for separating energy and transmission

E7. Determine ESR qualification for ERS or ORS

T1. Review tariff's VER definition

T2. Develop tariff changes defining ESR retail vs. wholesale service

T3. Evaluate impact of commercial mobile ESRs

T4. Evaluate changes to market registration requirement

T5. Recommend tariff changes for mobile retail ESRs

Supply Adequacy Working Group

Tx15. Develop policy for ESRs used for capacity, energy and transmission

Tx16. Coordinate interconnection, deliverability and transmission planning studies

Tx17. Develop policy regarding upgrade costs for ESRs used for transmission and capacity

Tx18. Determine appropriateness of capacity resource cost recovery in transmission charges

Tx19. Develop procedure for identifying capacity resource costs of ESR transmission facilities

Tx20. Develop capacity accreditation and testing methodology

ESR Steering Committee

Summary of Working Group Assignments

C1. Determine ESR capacity accreditation process

C2. Determine ESR duration and availability requirement

C3. Determine maximum amount of ESRs allowed in resource adequacy portfolio

Transmission Working Group

Tx1. Reconcile ESR duration with transmission planning scenario

Tx3. Reconcile lifespans of ESRs and other transmission facilities

Tx6. Decide if SPP invoices energy costs for ESR transmission facilities

Tx11. Coordinate interconnection and transmission planning studies

Tx16. Coordinate interconnection, deliverability and transmission planning studies

Tx17. Develop policy regarding upgrade costs for ESRs used for transmission and capacity

Tx19. Develop procedure for identifying capacity resource costs of ESR transmission facilities

E1. Develop ESR transmission planning study process

Staff

Tx2. Document primary transmission use of ESRs

Tx11. Coordinate interconnection and transmission planning studies

ESR Steering Committee

Summary of Working Group Assignments

Tx16. Coordinate interconnection, deliverability and transmission planning studies

Tx17. Develop policy regarding upgrade costs for ESRs used for transmission and capacity

Tx19. Develop procedure for identifying capacity resource costs of ESR transmission facilities

Tx20. Develop capacity accreditation and testing methodology

E1. Develop ESR transmission planning study process

E2. Develop process for modeling and controlling ESR hybrid configurations

E4. Determine limits for fast-responding ESRs

E8 Reconcile ESR duration with reserve duration requirement

E9. Analyze the cost/benefit of adding SPP charging control

T1. Review tariff's VER definition

T2. Develop tariff changes defining ESR retail vs. wholesale service

T3. Evaluate impact of commercial mobile ESRs

T4. Evaluate changes to market registration requirement

Strategic Planning Committee

Strategic Planning Committee should recommend to the board the extent and timing of SPP's support for multi-use ESRs; specifically, ESRs used as both transmission and energy/capacity

ESR Steering Committee

Summary of Working Group Assignments