Southwest Power Pool

ECONOMIC STUDIES WORKING GROUP

October 10, 2013

Web Conference

• SUMMARY OF ACTIONS TAKEN •

1. SPP Staff will run the resource plan models to apply the right WAPA/Nebraska transactions.
2. Staff will propose new dates for next meetings in October (web conference) and the face-to-face meeting in December. The members will vote via email.

Southwest Power Pool

ECONOMIC STUDIES WORKING GROUP

October 10, 2013

Web Conference

• MINUTES •

Agenda Item 1 – Administrative Items

Agenda Item 1a - Call to Order, Introductions

Chair Alan Myers (ITC Great Plains, LLC) called the meeting of the Economic Studies Working Group (ESWG) to order at 9:05 a.m., welcomed those in attendance, and asked for introductions. (Attachment 1 – Attendance List)

There were 45 web conference participants representing 10 of 12 members.

Agenda Item 1b – Receipt of Proxies

Juliano Freitas (SPP staff) requested proxy statements. One proxy was identified, Kip Fox proxy to Wayman Smith (AEP). (Attachment 2 – Proxy)

Agenda Item 1c – Review of Agenda

Chair Alan Myers (ITC Great Plains, LLC) presented the agenda for review and asked for any additions or corrections. The agenda was approved unanimously. (Attachment 3 – Agenda)

> **A motion to approve the proposed agenda was made by Kurt Stradley (LES) and seconded by Leon Howell (OGE). The motion was approved unanimously.**

Agenda Item 2 – 2015 ITP10 Schedule

Antoine Lucas (SPP staff) presented the 2015 ITP10 schedule including milestones, member review/feedback and also the ESWG approval dates. The intention of this presentation was to show members the impact of the Resource Planning milestone on the 2015 ITP10 Study schedule. The ESWG members approved moving the Siting Plan approval from October 24th to the end of the month, day to be decided on the October 10th meeting. (Attachment 4 – 2015 ITP10 Schedule)

Agenda Item 3 – 2015 ITP10 Resource Plan

Juliano Freitas (SPP Staff) presented the 2015 ITP10 Resource Plan results. This was the second pass for the 2015 ITP10 Resource Plan, the deadline to submit feedback was 12PM October 07th. The main changes comparing pass 1 and pass 2 are:

- Corrected Future 3 carbon tax setup: in pass 1 we only had the cost rate but not the dispatch rate, this way we did not have the impact on the dispatch order for “dirty” vs. “clean” units.
- Corrected max capacities of some units, consistent with Generation Review: SPP Staff fixed the partial ownerships associated with SPP and external areas, seasonal capacities and also duplicated units in the Strategist model.
- Some wind units were adding unexpected energy onto system in Pass 1. Setup changed (commission date) to correct the issue.

They main impact in the results after fixing the items mentioned above is listed below:

- F1 KSMO
  - Pass 1: 8 CTs, 3 CCs
  - Pass 2: 14 CTs, no CCs
  - Pass 1 simulations had setup error limiting the number of CTs that could be added
- F3 KSMO and South

- Minor decrease in CTs
- Minor increase in CCs
- Significant increase in wind
- Driven by correct implementation of carbon tax

Nebraska's entities are concerned about the transactions involving Nebraska and WAPA, according the members the model is not capturing correctly the energy dispatched along the year, the model is adding more energy than expected. It will not change the capacity needed but potentially can change the resource mix proposed for the sub-region.

OGE is concerned about the load increase in the SPP region, in the past meetings OGE opposed to include HPILS load in the ITP10 models, and even without the HPILS load the ITP10 loads seems to be above their expectation. (Attachment 5 – 2015 ITP10 Resource Plan)

. **A motion to approve the 2015 ITP10 Resource Plan conditionally was made by Tim Owens (NPPD) and seconded by Wayman Smith (AEP). In the next three business days following the meeting SPP Staff will run the Strategist to implement the changes proposed by LES, OPPD and NPPD. Also, companies are allowed to submit changes regarding the resource mix proposed by SPP Staff. The final results will be approved by email vote before the MOPC meeting at October 15th. The motion was approved unanimously.**

ACTION ITEM: SPP Staff will run the resource plan models to apply the right WAPA/Nebraska transactions.

ACTION ITEM: SPP Staff will propose new dates for next meetings in October (web conference) and the face-to-face meeting in December. The members will vote via email.

SPP Staff, asked for guidance in order to complete the external resource plan, the main issue was about assumptions to be used in order to accomplish the task. ***The ESWG decided to use the same resource plans assumptions for SPP and external areas for Futures 1 and 3. For Future 2, SPP Staff was recommended to reduce hydro unit's maximum capacity by 20%, retire coal units under 200MW and reduced base load unit's capacity by 10%.***

Agenda Item 4 – 2015 ITP10 Siting Plan

Juliano Freitas (SPP Staff) presented the 2015 ITP10 Siting Plan 1st Draft. The siting plan proposed by SPP Staff was based on HPLIS and 2013 ITP20 sites. The methodology was based on the follow assumptions:

- Utilized siting plans from the following studies:
  - HPILS
  - 2013 ITP20
- Resource additions matched to the aforementioned siting plans by:
  - Technology
  - Zone
  - Capacity
- If capacity was the binding factor, ITP20 capacities were increased
- If no matches, resource additions were sited with an available site from a geographically adjacent zone
- HPILS Resources sited below 100kV were stepped up to the higher kV bus
- Future 3 wind siting based on ITP20 Future 2 wind sites

The members will provide final feedback initially by XX. Final approval date will be at XX. (Attachment 6 – 2015 ITP10 Siting Plan)

Agenda Item 5 – Coincident demand for LOLE Studies

Michael Odom (SPP Staff) proposed to move from SPP Non-Coincident (BA peak) to an SPP Coincident peak demand forecast for the Loss-Of-Load Expectation (LOLE) studies: Capacity Margin LOLE study

and NERC Probabilistic Assessment. The reasons for the proposed changes are (Attachment 7 – Coincident Demand for LOLE Studies):

- Moving to a Consolidated Balancing Authority in 2014
  - Look at demand from an SPP CBA perspective
- Capacity Margin will be based on demand level at SPP peak
  - Could lower the amount of capacity necessary to meet the Capacity Margin requirement in the SPP Criteria
- NERC prefers Coincident peak forecasts for assessments

A motion to approve the coincident demand for LOLE studies changes was made by Paul Dietz (Westar) and seconded by Bruce Walkup (AECC). The motion was approved unanimously.

Agenda Item 6 – Transmission Project Classification, Assignment of Benefits

ESWG members will further discuss this issue in the upcoming meetings, potentially calling the Metrics Task Force (MTF) in order to approach the way benefits are calculated in the 2015 ITP10 Study.

Closing Items

Chair Alan Myers (ITC Great Plains, LLC) requested if any other items merited discussion.

The meeting was adjourned at 11:19 p.m.

Respectfully Submitted,

Juliano Freitas,

Secretary

Southwest Power Pool

ECONOMIC STUDIES WORKING GROUP

October 10, 2013

Web Conference

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Southwest Power Pool

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- F1 KSMO
  - Pass 1: 8 CTs, 3 CCs
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  - Pass 1 simulations had setup error limiting the number of CTs that could be added

Comment [A1]: This is the same language from the October 4th minutes. This needs to be updated to reflect the discussion on this call. I would update the language here, but don't remember which piece of the schedule we discussed. We may need to get together to figure this one out.

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- F3 KSMO and South
  - Minor decrease in CTs
  - Minor increase in CCs
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  - Driven by correct implementation of carbon tax

Nebraska's entities are concerned about the transactions involving Nebraska and WAPA, according to the members, the model is not correctly capturing ~~correctly~~ the energy dispatched ~~along~~ throughout the year~~, the~~and ~~model~~ is adding more energy than expected. It will not change the capacity needed but potentially can change the resource mix proposed for the sub-region.

OGE ~~is~~ expressed ~~concerned~~ concerns about the load increase in the SPP region~~.~~, ~~i~~In ~~the~~ past ESWG meetings, OGE opposed ~~to~~ includeing HPILS load in the ITP10 models, ~~and~~ but also noted that ~~even without the~~without consideration of the HPILS load, the ITP10 system loads seem~~s~~ to be above their expectation. (Attachment 5 – 2015 ITP10 Resource Plan)

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- Future 3 wind siting based on ITP20 Future 2 wind sites

The members will provide ~~final~~ feedback ~~initially~~ by October 17th ~~XX~~. Final approval date will be at October 23rd ~~XX.~~ (Attachment 6 – 2015 ITP10 Siting Plan)

Agenda Item 5 – Coincident demand for LOLE Studies

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Comment [A2]: We need to plug the dates here. I'm not sure what the dates were.

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Closing Items

Chair Alan Myers (ITC Great Plains, LLC) requested if any other items merited discussion.

The meeting was adjourned at 11:19 p.m.

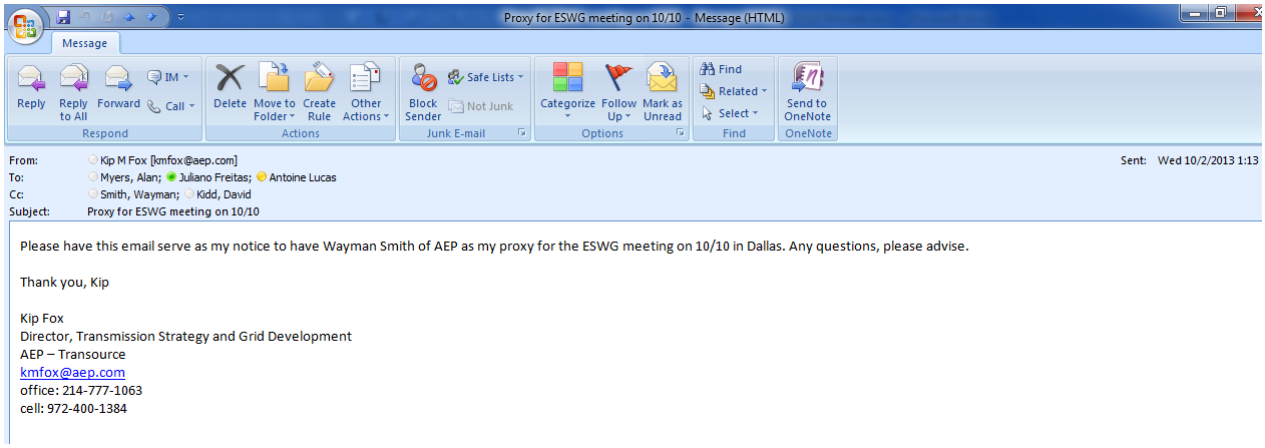
Respectfully Submitted,

Juliano Freitas,

Secretary

NAME	ATTENDANCE
Alan Myers	WEBEX
Antoine Lucas (SPP)	WEBEX
Bennie Weeks (SPS)	WEBEX
Bill Leung (NPRB)	WEBEX
Bob Burner	WEBEX
Bruce Cude	WEBEX
Bruce Walkup	WEBEX
Cindy Ireland	WEBEX
G Suttle	WEBEX
Greg Sweet	WEBEX
James Sanderson	WEBEX
Jason Shook	WEBEX
Jeff Knottek	WEBEX
Jeremy Harris (WERE)	WEBEX
Jerry Bradshaw (CUS)	WEBEX
Jim Jacoby	WEBEX
John Allen	WEBEX
John Mayhan (OPPD)	WEBEX
Jon Iverson	WEBEX
Jon Shipman (OPPD)	WEBEX
Jonathan Abebe (Clean Line Energy)	WEBEX
Josh Ross (SPP)	WEBEX
Juliano Freitas (SPP)	WEBEX
Kaustubh Deshmukh	WEBEX
Kelsey Allen (SPP)	WEBEX
Kevin Demeny	WEBEX
Kurt Stradley (LES)	WEBEX
Leon Howell	WEBEX
Matt Lind	WEBEX
Meena Thomas	WEBEX
Michael Odom	WEBEX
Michael Watt - OMPA	WEBEX
Mike Collins	WEBEX
Mike Knapp (OCC)	WEBEX
Mike Proctor	WEBEX
Nathan McNeil	WEBEX
Pat McCool	WEBEX
Paul Dietz	WEBEX
Randy Collier (CUS)	WEBEX
Robert Pick -NPPD	WEBEX
Roy Boyer	WEBEX
Shawnee Claiborn-Pinto	WEBEX
Steve Gaw	WEBEX
Tim Owens (NPPD)	WEBEX
Wayman Smith (AEP)	WEBEX

Kip Fox (AEP-Transource) proxy to Wayman Smith (AEP)



ECONOMIC STUDIES WORKING GROUP

October 10th, 2013

Web Conference

• A G E N D A •

9:00 am – 12:00 pm

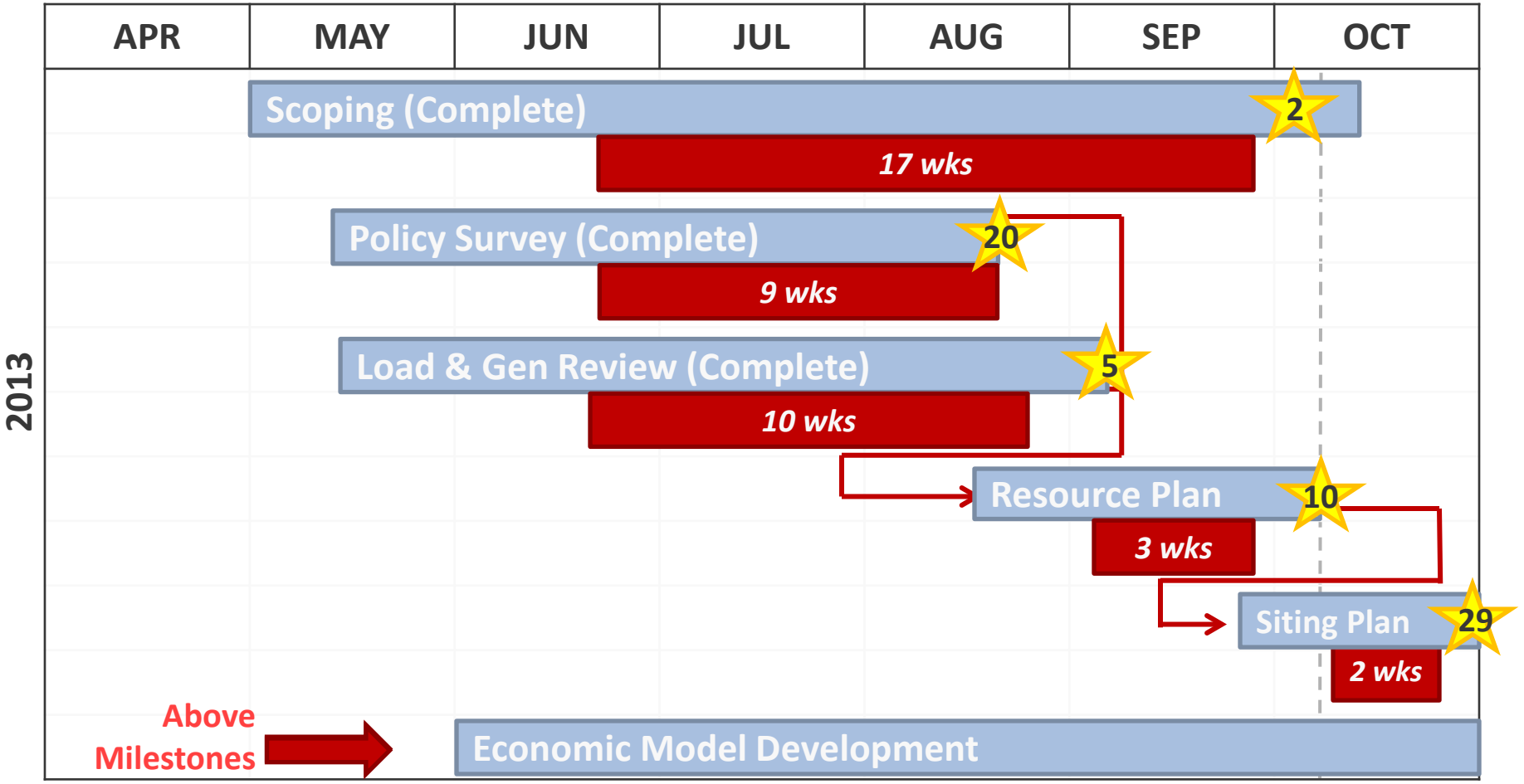
1. Administrative items
    a. Call to Order, Introductions ..... Alan Myers (5 minutes)
    b. Receipt of Proxies ..... Juliano Freitas (1 minute)
    c. Review of Agenda ..... Alan Myers (1 minute)
2. 2015 ITP10 Schedule ..... Antoine Lucas (10 minutes)
3. 2015 ITP10 Resource Plan (Approval Item) ..... SPP Staff (45 minutes)
4. 2015 ITP10 Siting Plan ..... SPP Staff (45 minutes)
5. Coincident Demand for LOLE Studies ..... Michael Odom (45 minutes)
6. Transmission Project Classification – Assignment of Benefits ..... ESWG Members (30 Minutes)
7. Closing Items ..... All

2015 ITP10 Schedule

October 10th, 2013

Southwest Power Pool

ITP10 Milestone Schedule (Apr-Oct 2013)

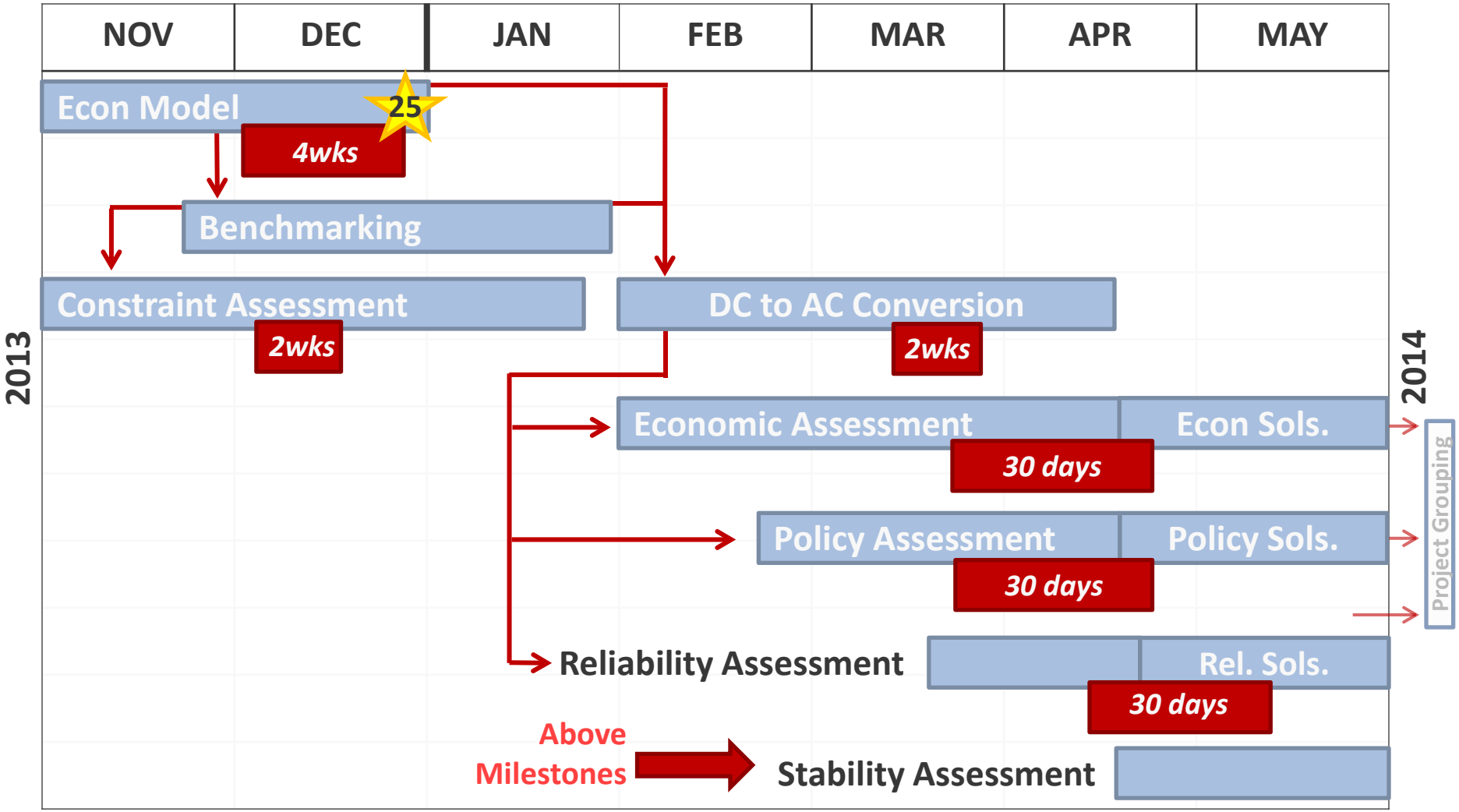


ESWG Approval

Member Review/Feedback Period

Milestone Period

ITP10 Milestone Schedule (Nov 2013-May 2014)

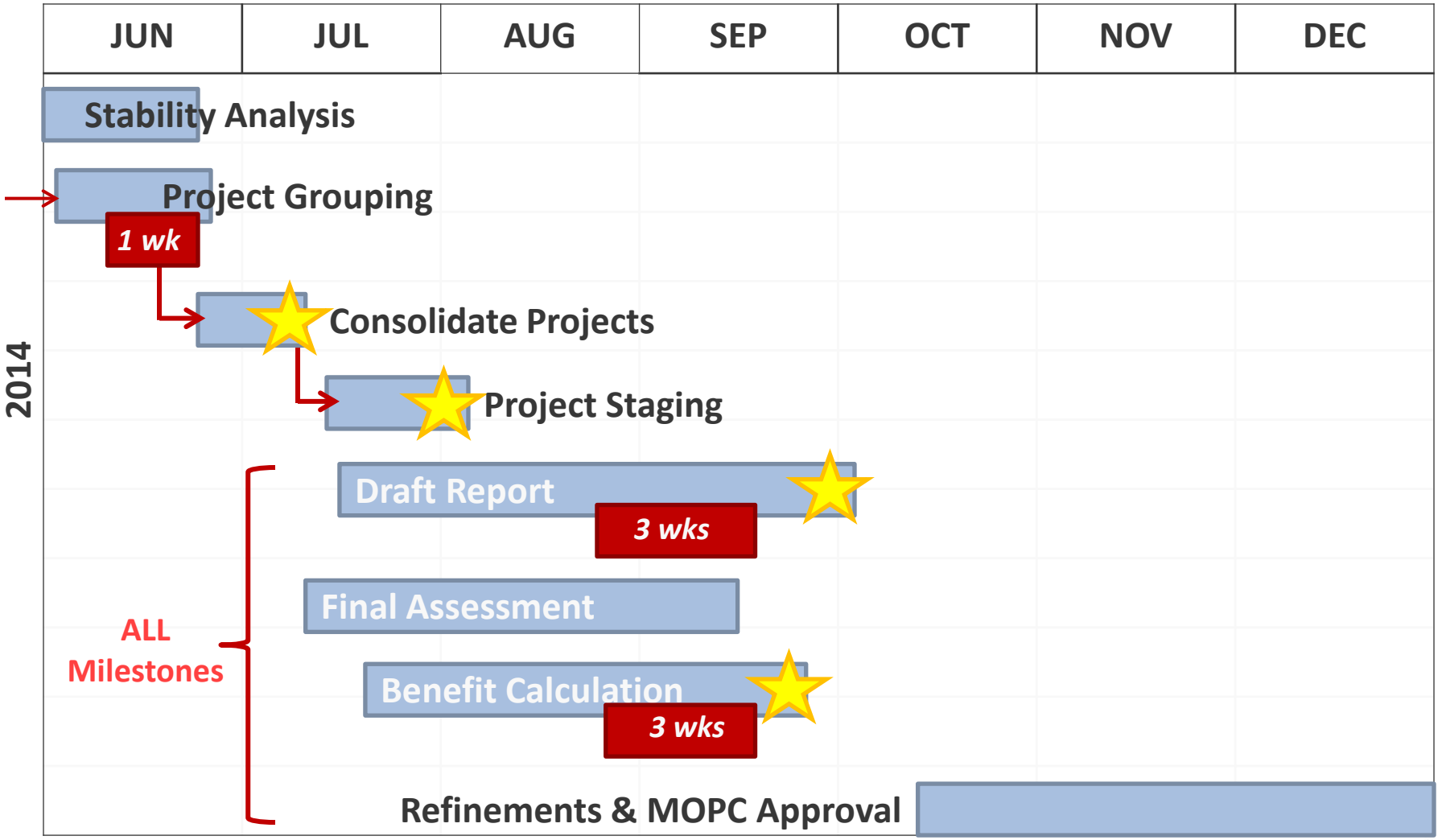


ESWG Approval

Member Review/Feedback Period

Milestone Period

ITP10 Milestone Schedule (Jun-Dec 2014)



ITP10 Milestone Schedule - Summary

Task Name	Start	Finish	Member Feedback	ESWG Approval	
Scoping	April	October	17 weeks	10/2	2013
Policy Survey	May	August	9 weeks	8/20	
Load and Generation Review	May	September	10 weeks	9/5	
Resource Plan	August	October	3 weeks	10/10	
Siting Plan	September	October	2 weeks	10/29	
Economic Model development	June	December	4 weeks	12/25 ☺	
Benchmarking	November	January '14			
Constraint assessment - TWG Approval	November	January '14	2 weeks		
DC to AC Conversion of Peak Hours	January	April	2 weeks		2014
Reliability Assessment	March	April	30 days		
Reliability Solutions	April	May			
Economic assessment	February	April	30 days		
Economic Solutions	April	May			
Policy Assessment	February	April	30 days		
Policy Solutions	April	May			
Stability Assessment	April	June			
Project Grouping	June	June	1 week		
Consolidate Projects	June	July		TBD	
Project Staging	July	August		TBD	
Draft Report	July	October	3 weeks	TBD	
Final Assessment	July	September			
Benefit Calculation	July	September	3 weeks	TBD	
Refinements and MOPC Presentation	October	January '15			

2015 ITP10 Resource Plan

Juliano Freitas

10/10/2013

Southwest Power Pool

2015 ITP10 Resource Plan

- Developed to identify additional resources needed to meet renewable policy survey requirements and serve future load
- Serves as input to the economic model used for transmission analysis
- Seeking approval today of resource plans for all 3 futures
  - 2019 and 2024
  - Siting plan is under development
  - Will present results at MOPC next week

2015 ITP10 Futures

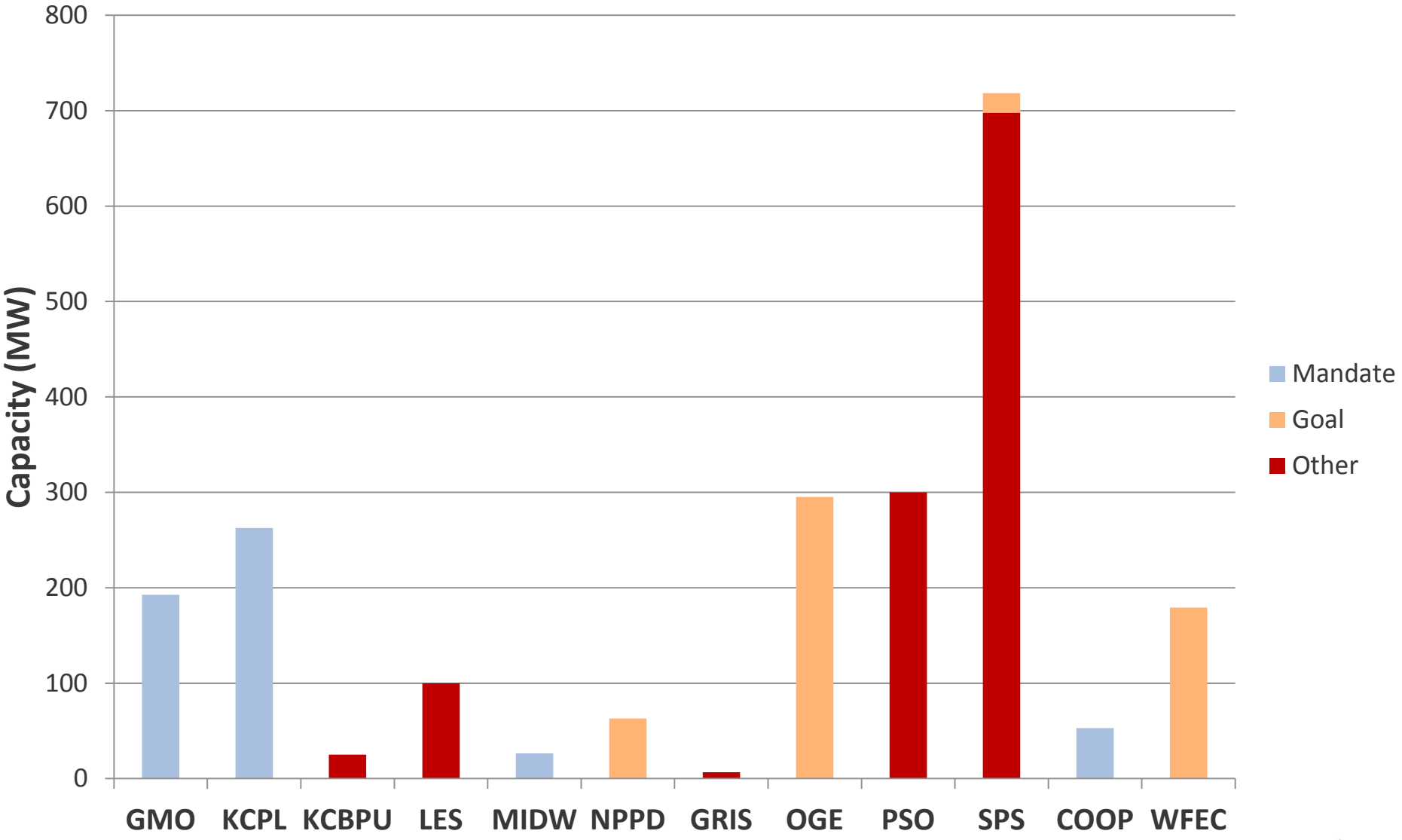
- Future 1: Business as Usual
- Future 2: Decreased Base Load Capacity
  - Up to 20% capacity reduction of conventional generation and hydro
  - Most coal units under 200 MW retired
- Future 3: Increased Input Prices
  - Natural gas prices tripled
  - Carbon tax
  - Demand Response/Energy Efficiency

RENEWABLE RESOURCE PLAN

Renewable Resource Plan

- Renewable Energy (Policy) Survey updates approved 10/2
- Renewable resource plan developed to address unmet renewable survey requirements including policy mandates and goals and other non-policy submissions
  - 2.2 GW of renewables added (2024)
  - Serves as input to conventional resource plan

Renewable Survey Capacity Additions by Utility - 2024



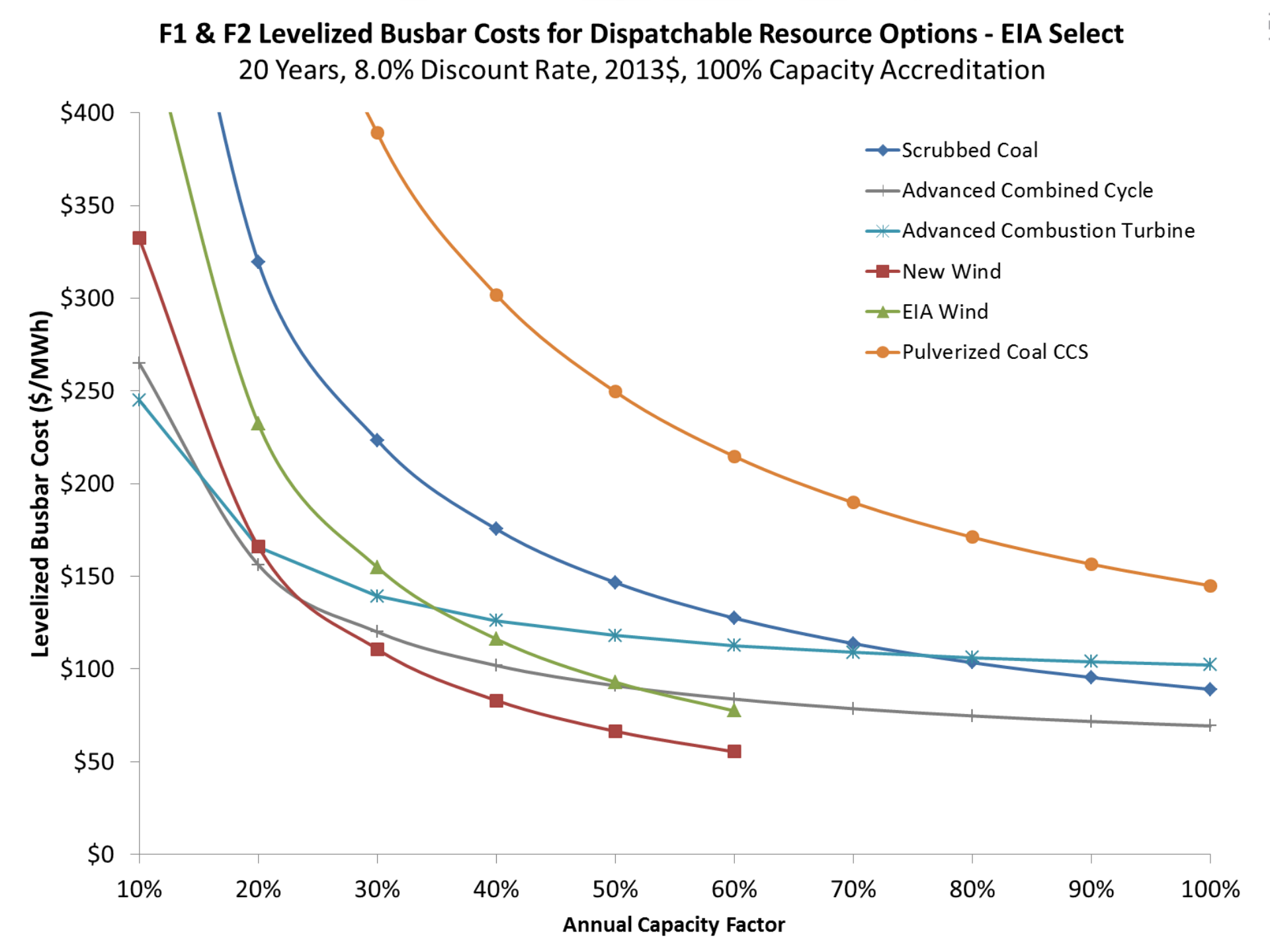
CONVENTIONAL RESOURCE PLAN

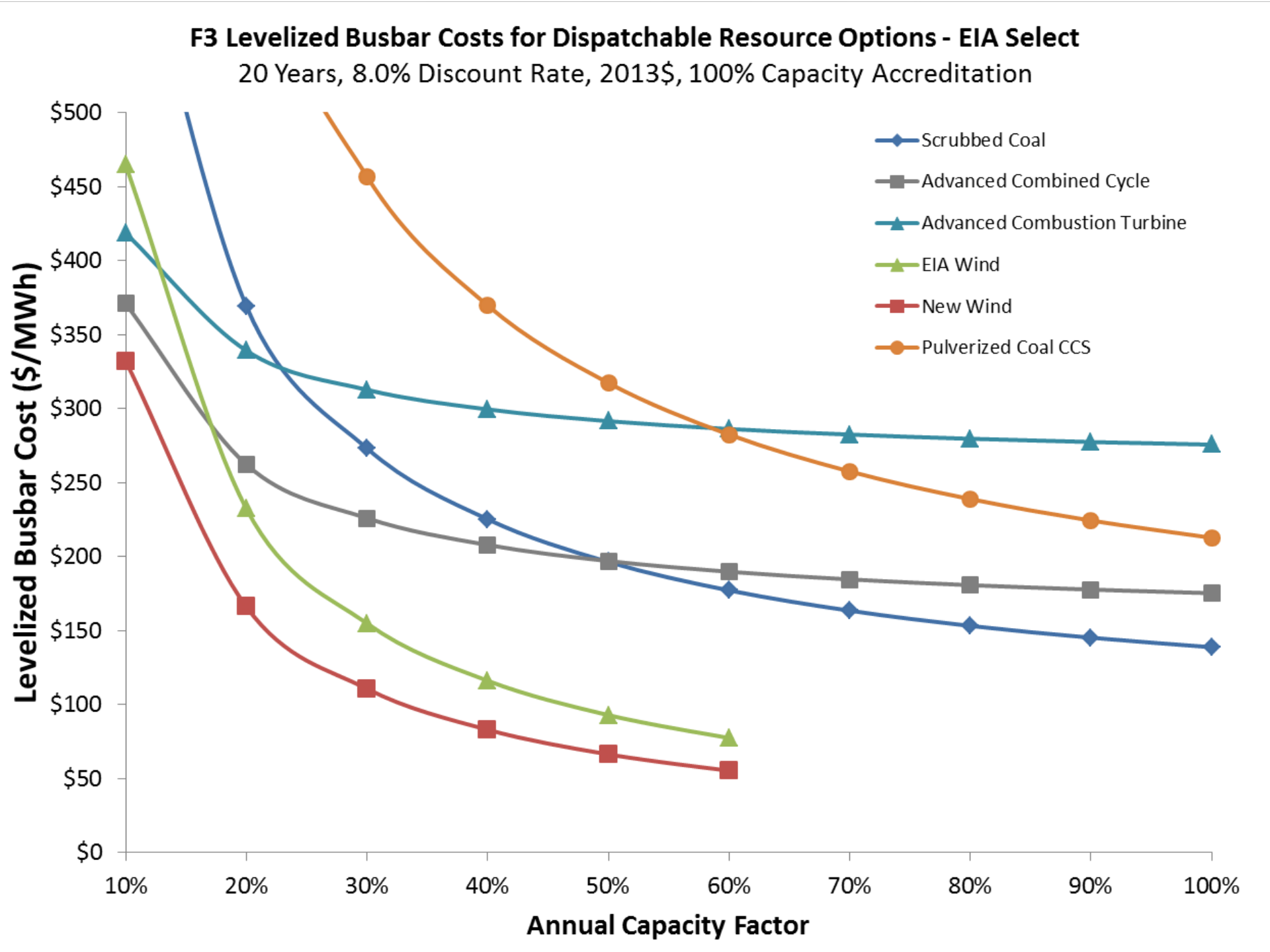
Resource planning simulations

- Generation expansion plan developed for each of 3 sub-regions
- Constraints
  - Zonal load requirements
  - Zonal generation capacity
  - Zonal capacity margin requirement (12%)
- Units allocated to zones within each sub-region based on zonal capacity needs

Model Changes Summary

- Corrected Future 3 carbon tax setup
- Corrected max capacities of some units, consistent with Generation Review
- Some wind units were adding unexpected energy onto system in Pass 1. Setup changed to correct issue
- Detailed list of changes is included in background materials workbook


F1 & F2 Levelized Busbar Costs for Dispatchable Resource Options - EIA Select
20 Years, 8.0% Discount Rate, 2013$, 100% Capacity Accreditation
Levelized Busbar Cost ($/MWh)
$400
$350
$300
$250
$200
$150
$100
$50
$0
10%
20%
30%
40%
50%
60%
70%
80%
90%
100%
Annual Capacity Factor
Scrubbed Coal
Advanced Combined Cycle
Advanced Combustion Turbine
New Wind
EIA Wind
Pulverized Coal CCS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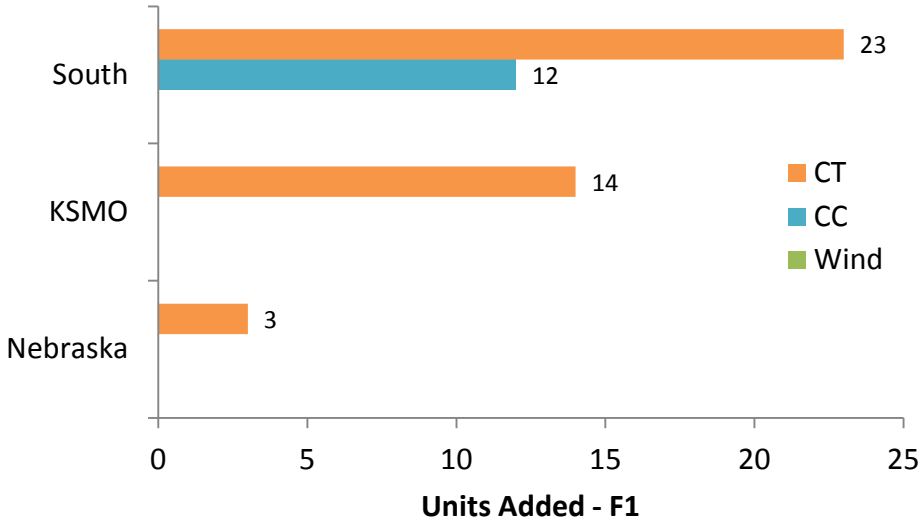
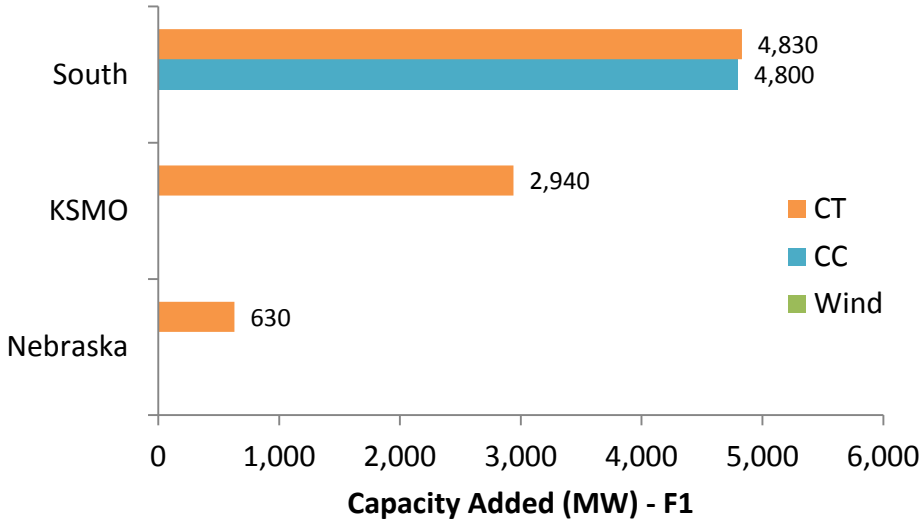
20 Years, 8.0% Discount Rate, 2013$, 100% Capacity Accreditation
Levelized Busbar Cost ($/MWh)
$500
$450
$400
$350
$300
$250
$200
$150
$100
$50
$0
10%
20%
30%
40%
50%
60%
70%
80%
90%
100%
Annual Capacity Factor
Scrubbed Coal
Advanced Combined Cycle
Advanced Combustion Turbine
EIA Wind
New Wind
Pulverized Coal CCS

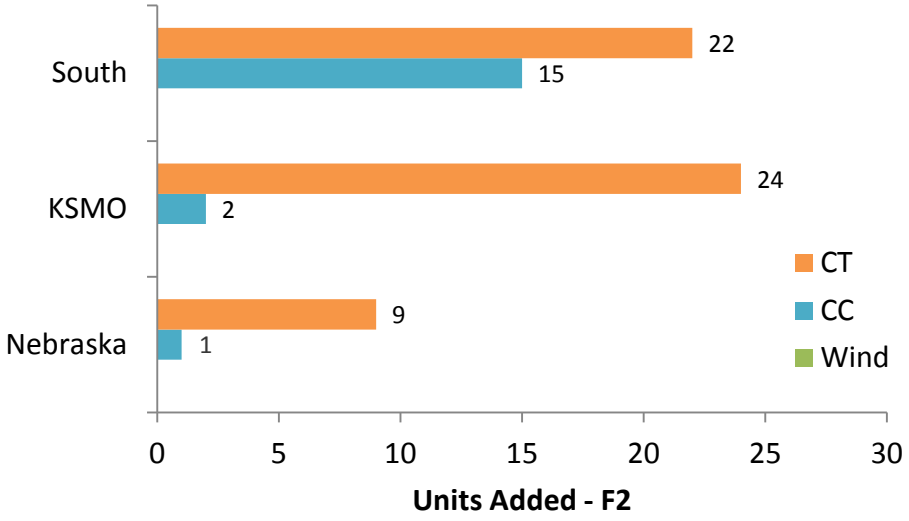
Future 1 Resource Additions through 2024

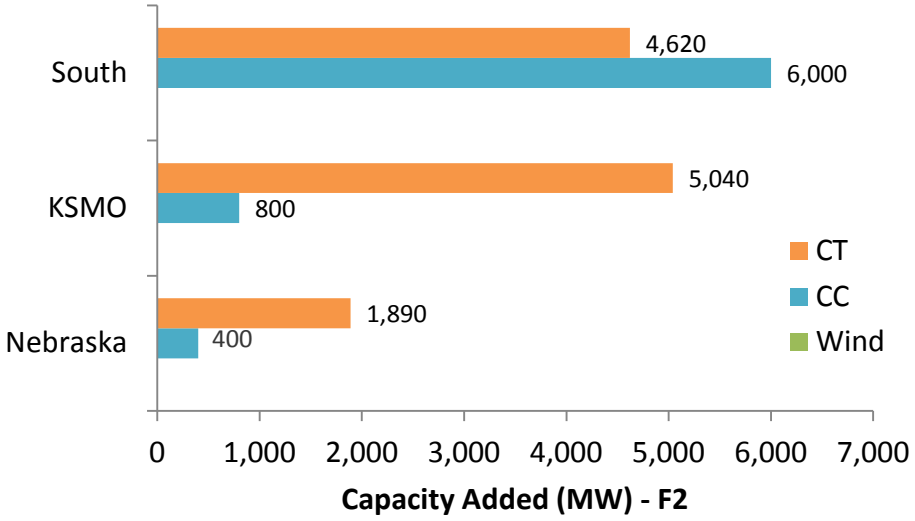




Total F1 Capacity Additions:
13.2 GW

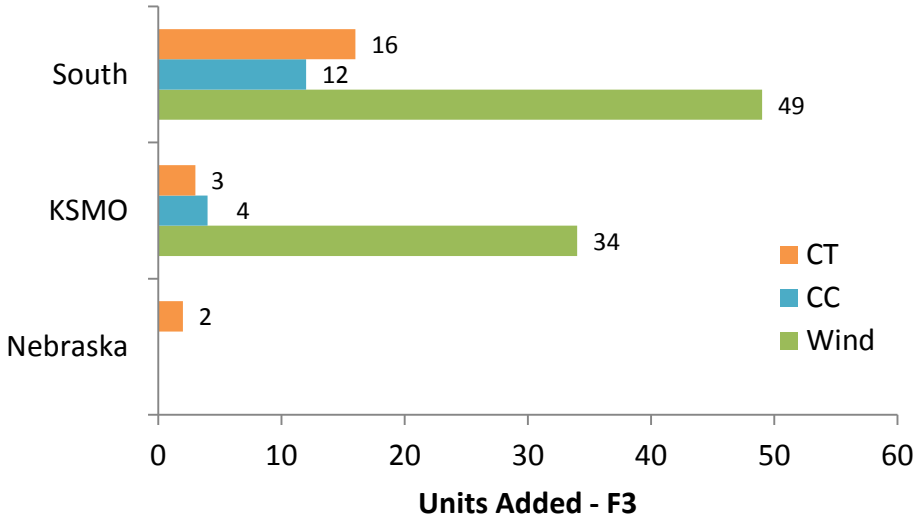
Future 2 Resource Additions through 2024

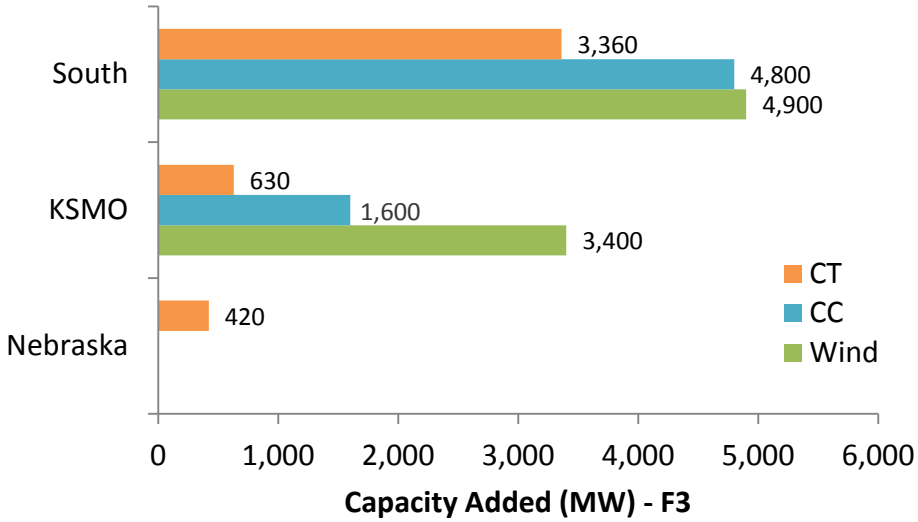




Total F2 Capacity Additions:
18.8 GW

Future 3 Resource Additions through 2024





Total F3 Capacity Additions: 19.1 GW

Total F3 Wind Additions: 8.3 GW

Future 3 Wind Additions

	KSMO - Wind MW	South - Wind MW	Total - Wind MW
New Wind Prototype (PTC gradually expires from 2015 - 2024)	3,400	4,900	**8,300**
2024 New Wind Prototype for all years (PTC is expired for all years under test)	3,000	3,500	**6,500**
EIA Wind Prototype	2,900	3,500	**6,400**

- **Wind selection is:**
  - **Less dependent on PTC and wind prototype assumptions,**
  - **More dependent on carbon tax and tripling of natural gas prices**

Significant Changes in Results

- F1 KSMO
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  - Pass 2: 14 CTs, no CCs
  - Pass 1 simulations had setup error limiting the number of CTs that could be added
- F3 KSMO and South
  - Minor decrease in CTs
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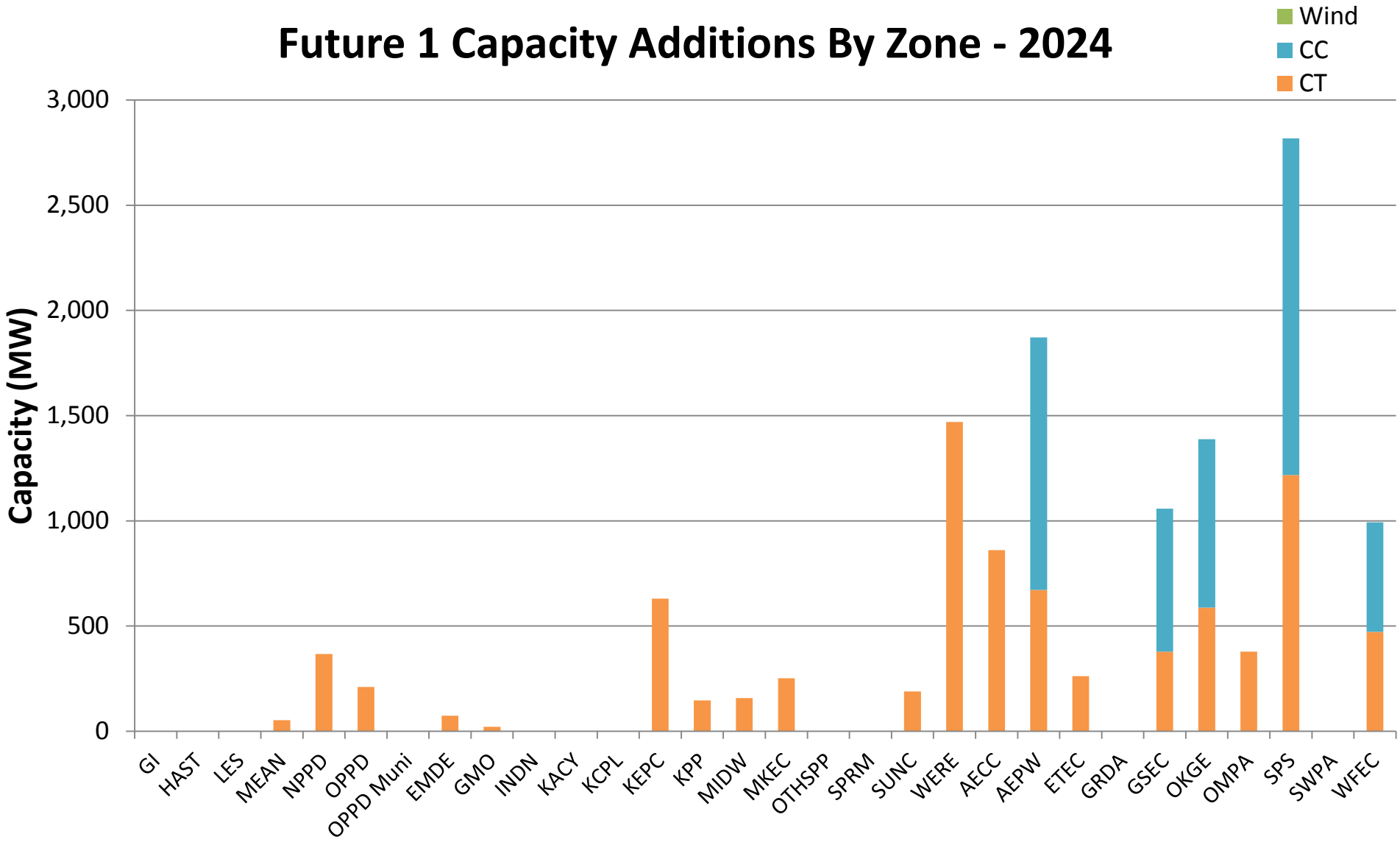
  - Driven by correct implementation of carbon tax

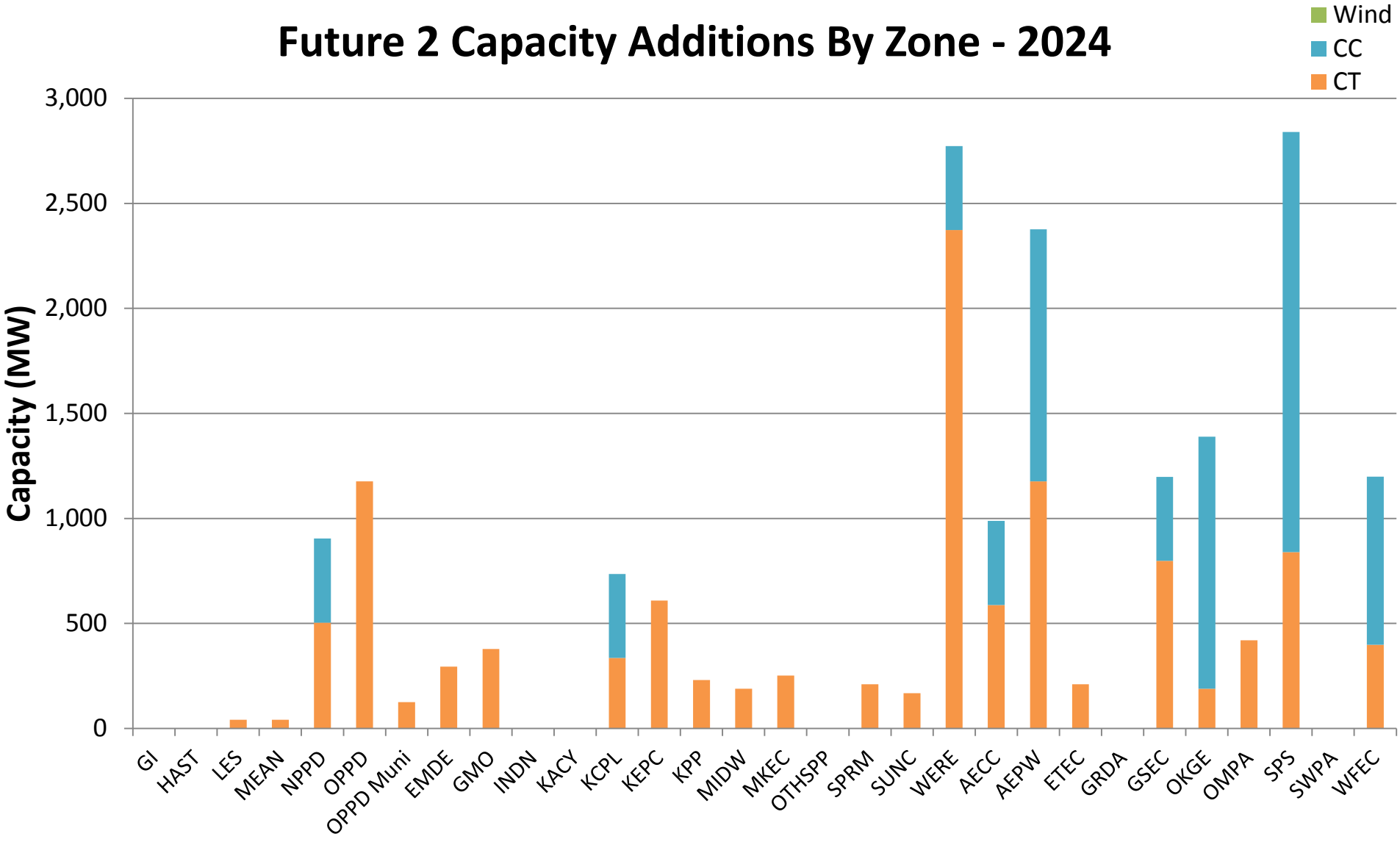
Changes from Members

- KCPL (Pat McCool): Substituted 1 CC for 2 CTs in F2
- NPPD (Tim Owens): Substituted 1 CC for 2 CTs in F2

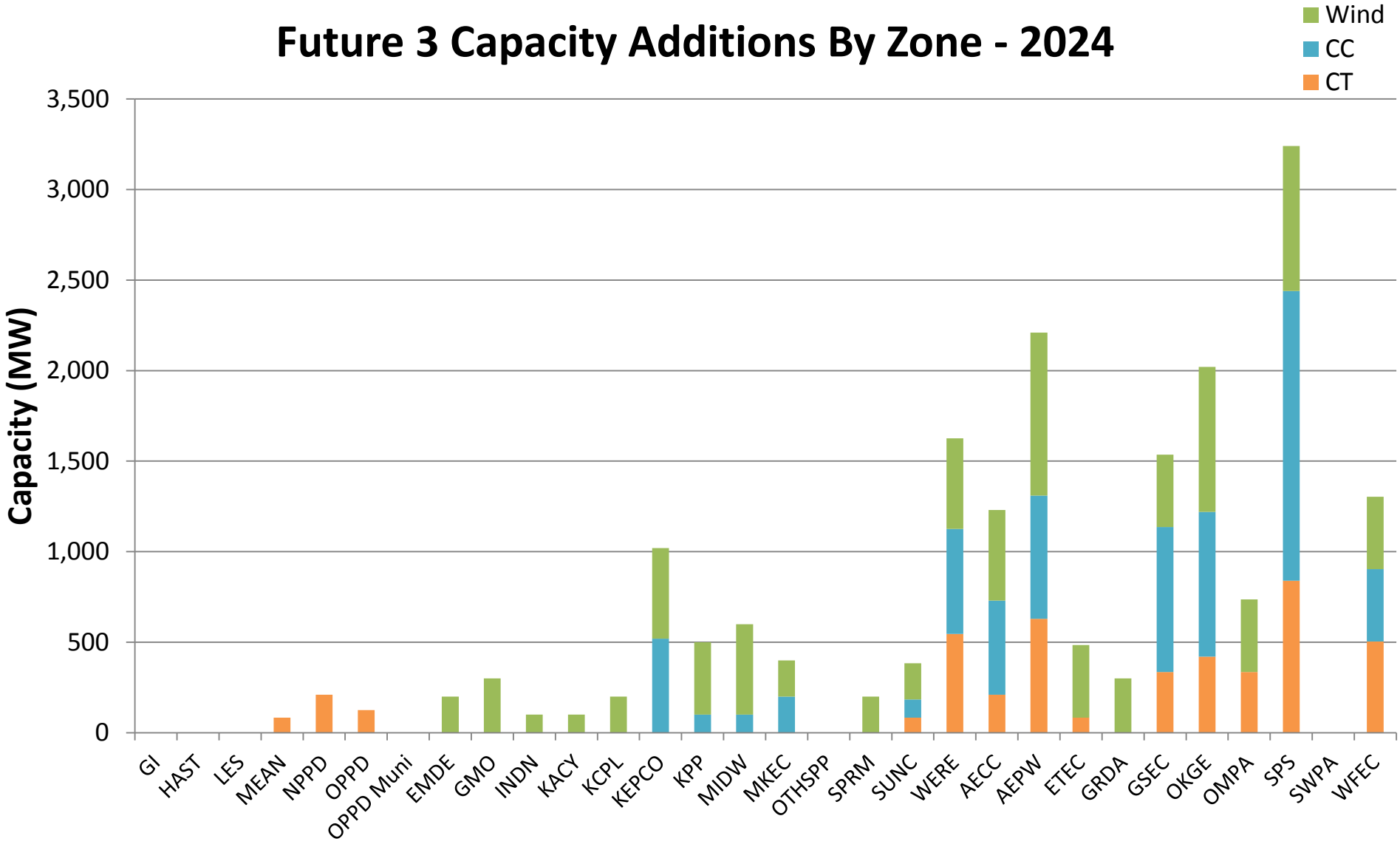
Future 1 Capacity Additions By Zone - 2024



Future 2 Capacity Additions By Zone - 2024



Future 3 Capacity Additions By Zone - 2024

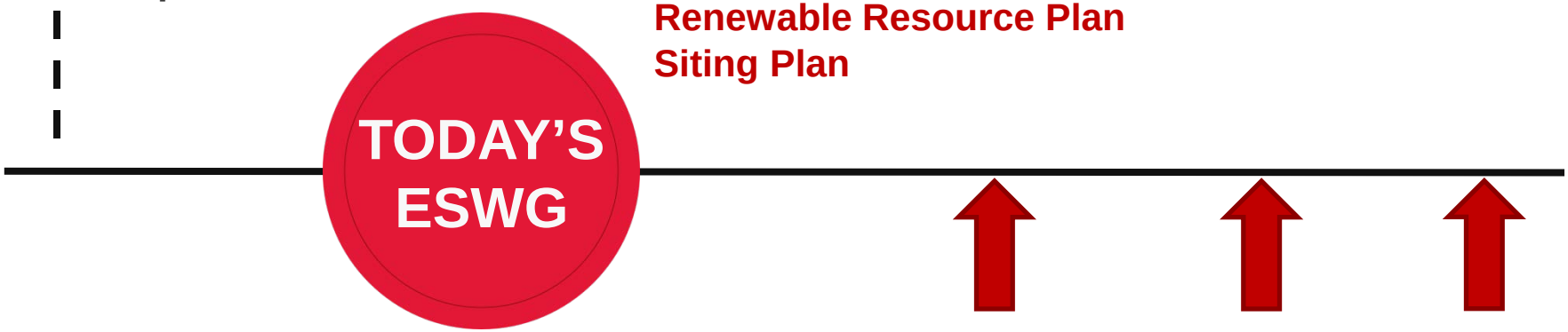


Approval

- SPP Staff recommends the ESWG approve the 2015 ITP10 generation resource plans for Futures 1-3

Policy Survey
Load and Gen Review
Futures Development
Scope

Conventional Resource Plan
Renewable Resource Plan
Siting Plan



Oct 15 2013
MOPC Approval

Oct 29 2013
Siting Plan
ESWG Approval

Economic
Model Build

2015 ITP10 Draft Siting Plan

Juliano Freitas

10/10/2013

Southwest Power Pool

DRAFT 2015 ITP10 Siting Plan

- Developed to identify sites for resource additions resulting from the Conventional and Renewable Resource Plans
- Serves as input to the economic model used for transmission analysis
- All three futures

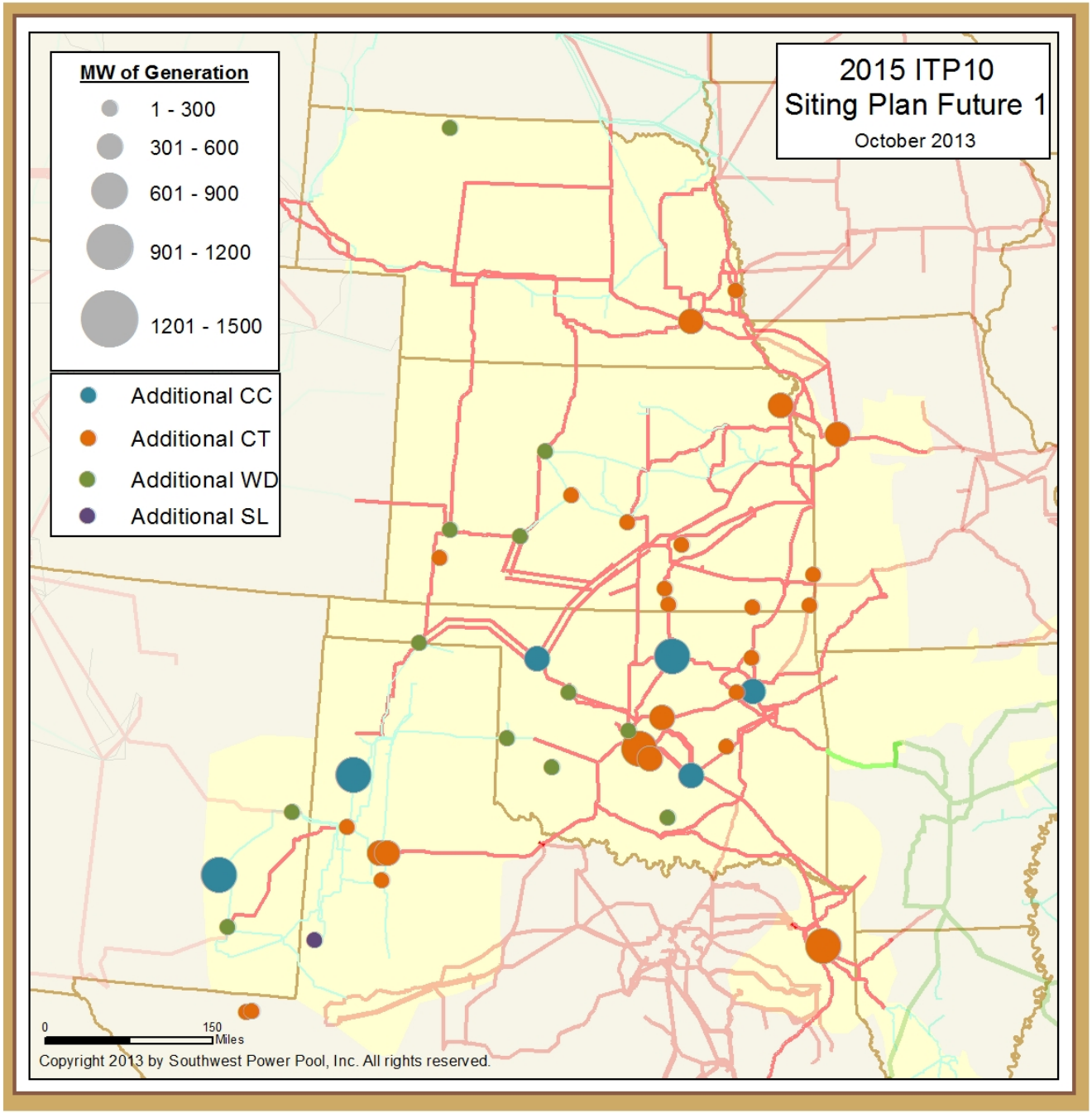
Methodology

- Utilized siting plans from the following studies:
  - HPILS
  - 2013 ITP20
- Resource additions matched to the aforementioned siting plans by:
  - Technology
  - Zone
  - Capacity
- If capacity was the binding factor, ITP20 capacities were increased

Methodology

- If no matches, resource additions were sited with an available site from a geographically adjacent zone
- HPILS Resources sited below 100kV were stepped up to the higher kV bus
- Future 3 wind siting based on ITP20 Future 2 wind sites

2024 CONVENTIONAL AND RENEWABLE SITING PLANS


MW of Generation
1 - 300
301 - 600
601 - 900
901 - 1200
1201 - 1500
Additional CC
Additional CT
Additional WD
Additional SL
2015 ITP10
Siting Plan Future 1
October 2013
0
150
Miles
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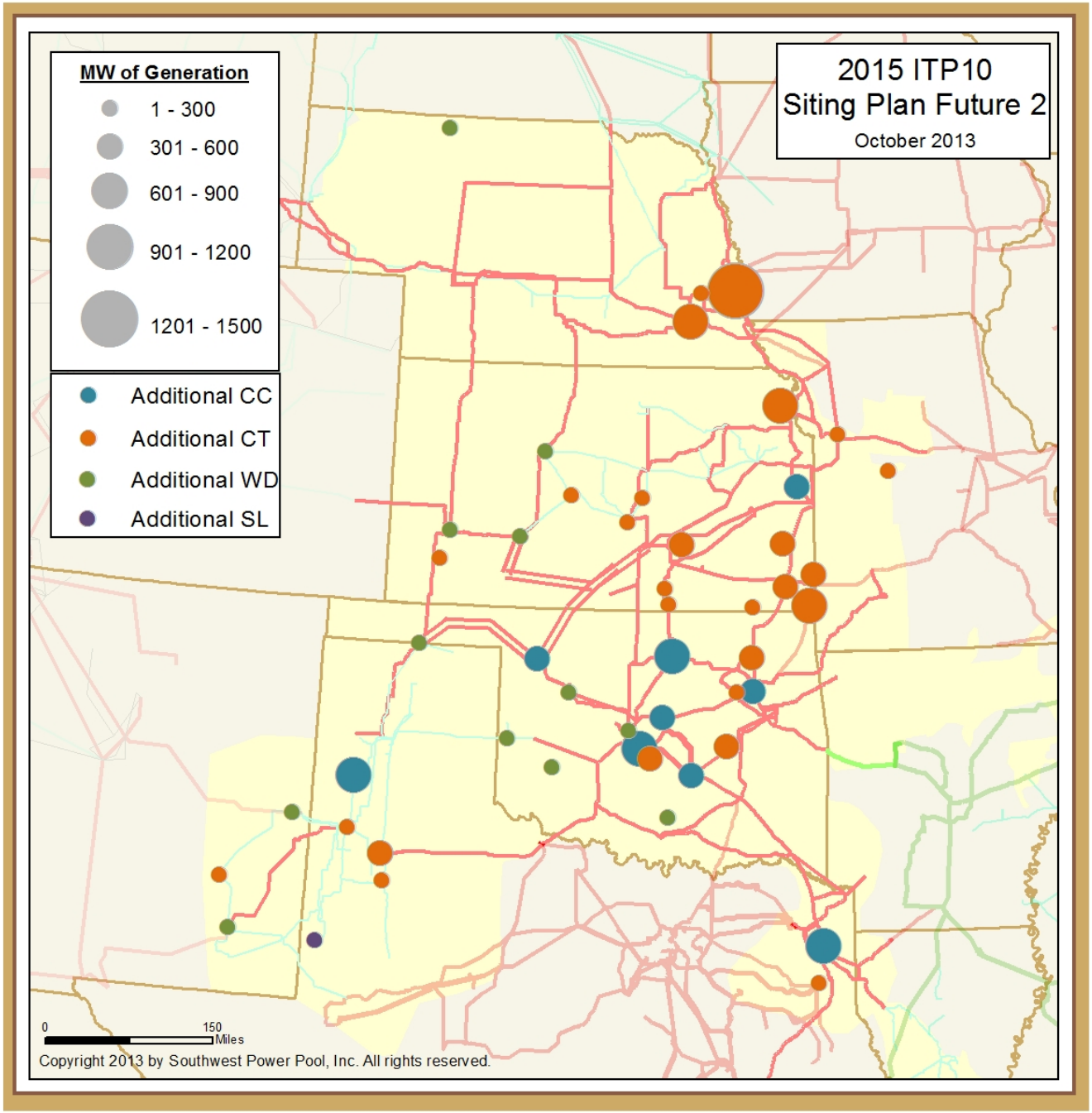
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901 - 1200
1201 - 1500
Additional CC
Additional CT
Additional WD
Additional SL
2015 ITP10
Siting Plan Future 2
October 2013
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150
Miles
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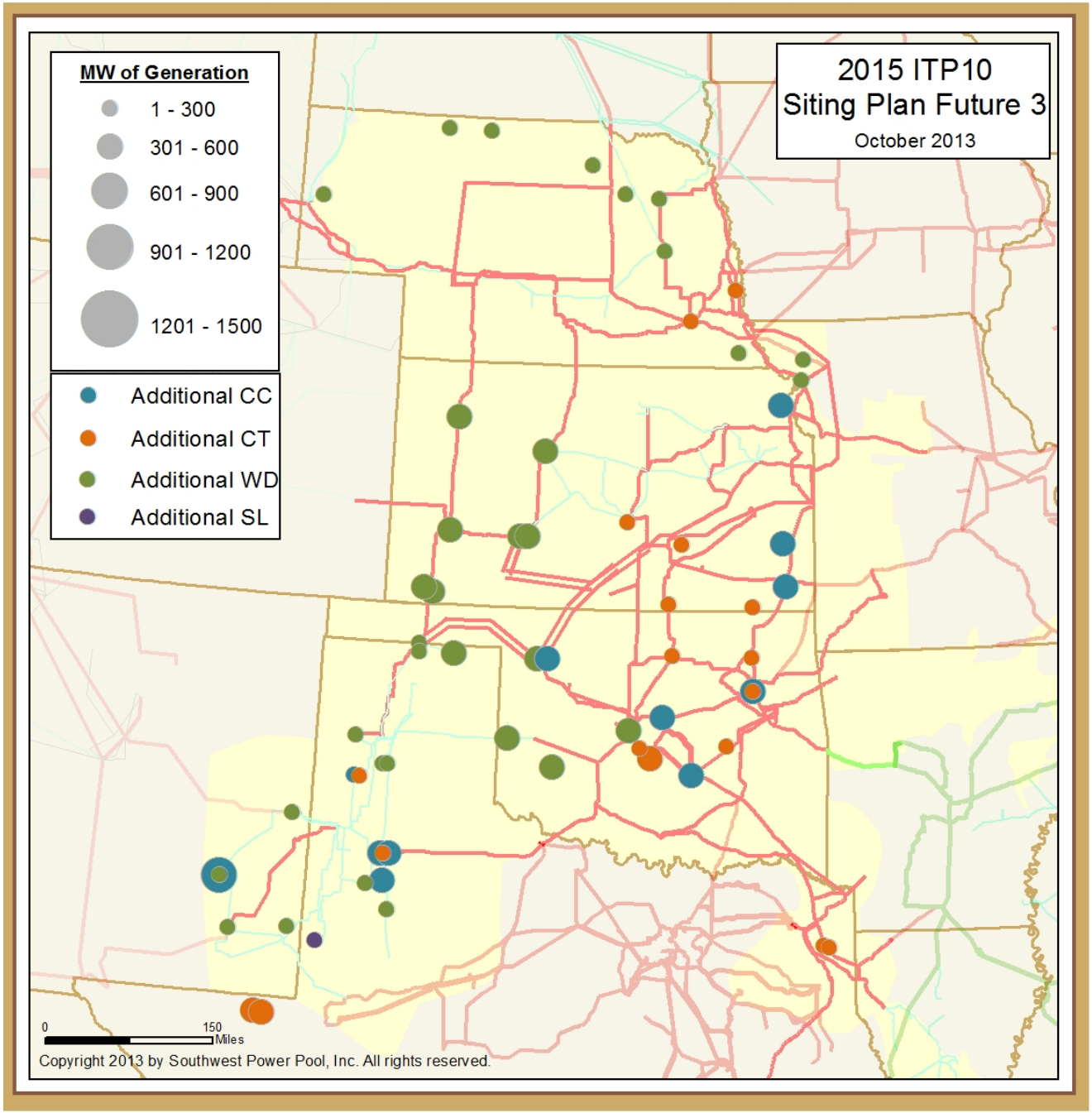
MW of Generation
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301 - 600
601 - 900
901 - 1200
1201 - 1500
Additional CC
Additional CT
Additional WD
Additional SL
2015 ITP10
Siting Plan Future 3
October 2013
0
150
Miles
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Schedule

Task	Deadline
ESWG Posting –First Draft	**4 Oct**
ESWG Meeting –Present Siting Plan	**10 Oct**
ESWG Member Feedback ends	**17 Oct**
ESWG Posting –Member Feedback incorporated	**22 Oct TBD**
ESWG Meeting –Seeking Final Approval	**29 Oct TBD**

Coincident Demand for LOLE studies

October 10, 2013

Michael Odom
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SPP Southwest Power Pool

Helping our members work together to keep the lights on... today and in the future

Purpose

- Move from SPP Non-Coincident (BA peak) to an SPP Coincident peak demand forecast for the Loss-Of-Load Expectation (LOLE) studies
  - Capacity Margin LOLE study
  - NERC Probabilistic Assessment

Reasons

- Moving to a Consolidated Balancing Authority in 2014
  - Look at demand from an SPP CBA perspective
- Capacity Margin will be based on demand level at SPP peak
  - Could lower the amount of capacity necessary to meet the Capacity Margin requirement in the SPP Criteria
- NERC prefers Coincident peak forecasts for assessments

Questions