

Southwest Power Pool
ECONOMIC STUDIES WORKING GROUP
January 22, 2018
Webex / Conference Call

• SUMMARY OF ACTIONS TAKEN •

1. Approved a motion for SPP to send out a data request for Load forecast for resource planning to accommodate controllable curtailable resources, without impact to the schedule.
2. Approved a motion to use a split representative of the active GI Queue of wind and solar resources for policy additions.
 - Approved the allocation of projected solar additions based on load ratio share
 - Approved implementation of the approved scope language for renewable generation accreditation, including:
 - Allocation of projected wind additions to maximize accreditation to deficient zones, up to zonal renewable cap for new resources
 - Order of accreditation
 - Existing
 - Policy wind/solar
 - Projected solar
 - Projected wind
 - Conventional
3. Approved a motion to use of 2012 NREL solar data, and the proposed methodology for the development of profiles for wind and solar sites.



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ECONOMIC STUDIES WORKING GROUP**

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• MINUTES •

Agenda Item 1 – Administrative Items

Agenda Item 1a - Call to Order, Introductions

Chair Alan Myers (ITC Great Plains) called the meeting of the Economic Studies Working Group (ESWG) to order at 1:00 p.m., welcomed those in attendance, and asked for introductions.

There were 61 web conference participants, representing 13 of 17 ESWG members. (Attachment 1 – January 22, 2018 Attendance List)

Agenda Item 1b – Receipt of Proxies

Alan Myers (ITC Great Plains) asked for any proxy statements; One proxy

- John Olsen (Westar) name Mo Awad (Westar) as his proxy.

(Attachment 2 – Proxy Statements)

Agenda Item 1c – Review of Agenda

Chair Alan Myers (ITC Great Plains) presented the agenda for review and asked for any additions or corrections. (Attachment 3 – January 22, 2018 ESWG Agenda).

Wind and Solar Profiles moved up on the agenda.

Natasha Henderson (GSEC) made a motion; seconded by Kurt Stradley (LES) to adopt the agenda as amend. The motion was approved unanimously.

Agenda Item 2 – 2019 ITP Items

Agenda Item 2a – OPPD Resource Plan

OPPD staff presented resource planning load forecast request. SPP staff informed the group of schedule impacts due to accommodating controllable curtailable resources. The discussion continued determining each TO's adjustment percentage amount. (Attachment 4 – OPPD Resource Plan)

Action Item – Discuss separate load forecasts for resource planning purposes, and how to incorporate into the ITP process

Jon Iverson (OPPD) made a motion; seconded by Leon Howell (OGE) to approve Motion that SPP send out a data request for Load forecast for resource planning to accommodate controllable curtailable resources. The motion was approved, with three no votes; Mo Awad (Westar), Bethany King (EMDE) and Al Tamimi (SUNC). A friendly amendment was made by Jody Holland (Gridliance): to approve Motion that SPP send out a data request for Load forecast for resource planning to accommodate controllable curtailable resources, *without impact the schedule*. The amendment was accepted.

Reason for “no” vote: Westar voted no because this out-of-cycle change may impact the ITP schedule and this change is not consistent with the TPITF whitepaper changes. Annual ITP studies are more responsive and any correction can be caught in the next study the following year without jeopardizing the schedule. Westar agrees that the process needs to be modified to address this issue if it were to happen again in the future. Mo Awad (Westar)”

Agenda Item 2b – Renewable Accreditation

Amber Greb (SPP) reviewed SPP staff's proposal for Renewable Accreditation. The group reviewed the Renewable Accreditation decision tree for better understanding. She also provided an example to illustrate how the proposed methodology will work to meet the desired 12% reserve margin including wind, solar and conventional resources (Attachment 5 – Renewable Accreditation)

Natasha Henderson (GSEC) made a motion; seconded by Leon Howell (OGE) to approve a motion to use a split representative of the active GI Queue of wind and solar resources for policy additions.

- **Approve the allocation of projected solar additions based on load ratio share**
- **Approve implementation of the approved scope language for renewable generation accreditation, including:**
- **Allocation of projected wind additions to maximize accreditation to deficient zones, up to zonal renewable cap for new resources**
 - **Order of accreditation**
 - **Existing**
 - **Policy wind/solar**
 - **Projected solar**
 - **Projected wind**
 - **Conventional**

The motion was approved with one No vote and one abstention.

“NPPD abstained from the motion regarding renewable accreditation, as modified during the meeting. I disagree with the change in approach, specified in the motion, that would apply the 12% cap on accredited renewable capacity allocated to a load zone to new renewable resources only, rather than existing + new renewable resources. My concern is that this approach will result in too much speculative renewable generation, without firm transmission service, being allocated to load zones and applied to the reserve margin calculations during the resource plan development. Tim Owens (NPPD)”

“Reason for “no” vote: Westar supports parts of the recommendation, but we voted no because it was a package. We voted “no” because it seems there is no common understanding or rationale for the 12% cap and why that number is selected in addition to 12% PRM. During the meeting it was changed last minute from 12% total renewable cap to 12% new renewable cap without analysis or understanding the impact. In addition, we don't understand why existing wind would be accredited at 5% per SPP criteria, absent site data, but new wind would be accredited at 20%. Mo Awad (Westar)”

Agenda Item 2c – Wind and Solar Profiles

James Bailey (SPP) presented wind and solar profiles proposed methodology, comparing pros and cons between the proposed methodology and what was used in the 2017 ITP10 Study. (Attachment 6 – 2019 ITP Wind and Solar Profiles)

Tim Owens (NPPD) made a motion; seconded by Anita Sharma (AEP) to approve a motion to use of 2012 NREL solar data, and the proposed methodology for the development of profiles for wind and solar sites. The motion was approved unanimously.

Agenda Item 2d – Generation and Load Review

SPP staff informed the group of posting date for final Generation and Load Review, the new proposed date is January 24th 2018.

Agenda Item 2e – Renewable Pricing

SPP staff revisited ITP Renewable Pricing discussion (action Item 187). The group discussed the SPP recommendation to adopt industry standard renewable VOM modeling of \$0/MWh for the 2019 ITP until



PPA price modeling is more fully vetted. The revision request (RR) was also discussed. A straw poll was conducted to determine if the group preferred \$0 or \$8/MWh (3 votes for \$0/MWh; 5 votes for \$8/MWh; 5 votes with no preference and 1 abstention). (Attachment 7 – Renewable Pricing)

Agenda Item 2f – Siting

Liz Gephardt (SPP) provided the group of the status of the Siting Plan and upcoming stakeholder touch points. Liz discussed current tasks in progress and provided a high-level schedule. (Attachment 8 – 2019 ITP Siting Plan)

Closing Items

Chair Alan Myers (ITC Great Plains) requested other items meriting discussion.

The meeting was adjourned at 3:45 p.m.

Respectfully Submitted,

Amber Greb

ESWG Secretary

All sessions in Central Standard Time (Chicago, GMT-06:00)

Session detail for 'ESWG Net Conference':

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61 Kevin Foflygen (SPRM)	kevin.foflygen@cityutilities.net	1/22/2018

From: Olsen, John
Sent: Tuesday, January 16, 2018 8:38 AM
To: Myers, Alan <amyers@itctransco.com>; Amber Greb <agreb@spp.org>
Cc: Awad, Mo <mo.awad@westarenergy.com>
Subject: ****External Email**** Proxy for 1/22

I will be able to attend only the first hour of the call. Mo Awad will have my proxy when I depart the meeting.

Thanks,

John Olsen

Westar Energy, Inc.
Ex. Director, System Operations & Transmission Development
John.Olsen@WestarEnergy.com
O: (785) 575-8078 **C:** (785) 220-8343

If you've received this message in error, I apologize for the inconvenience. Please don't distribute it. Instead, please just delete it and respond to let me know of my error. Then, have a wonderful day.

ECONOMIC STUDIES WORKING GROUP MEETING

January 22th, 2017

Net Conference

• A G E N D A •

1. Administrative Items
 - a. Call to Order, Introductions..... Alan Myers (5 minutes)
 - b. Receipt of Proxies Amber Greb (1 minute)
 - c. Review of Agenda¹ Alan Myers (1 minute)
2. 2019 ITP Items SPP Staff (170 minutes)
 - a. OPPD Resource Plan¹..... OPPD/Staff (45 minutes)
 - b. Renewable Accreditation¹(Approval Item)..... Amber Greb (60 minutes)
 - c. Wind and Solar Profiles¹(Approval Item)..... James Bailey (15 minutes)
 - d. Generation and Load Review Nikki Roberts (10 minutes)
 - e. Renewable Pricing¹ Chris Jamieson (25 minutes)
 - f. Siting¹ Liz Gephardt (15 minutes)
3. Closing Items All (5 minutes)
 - a. Summary of Action Items (Amber Greb)
 - b. Future Meetings
 - i. February 22nd, 2018: OG&E Office, Leadership Square, North Tower 14th Floor
 - ii. March 15th, 2018: 41st Floor AEP Office, Dallas, TX
 - iii. April 25th, 2018: KCP&L office in the One Kansas City Place building

¹ Background Material Included



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ESWG

Resource Planning

Load Forecast

OPPD

January 11, 2018

ITP Load Forecasts

- In past ITP studies SPP accommodated a separate load forecast to be used only for resource planning.
- In the 2019 ITP OPPD submitted a separate resource planning load forecast.
- Upon this submittal, SPP stated they would prefer not to accommodate a separate resource planning forecast in the 2019 ITP.
- For the 2019 ITP, by default the peak load forecast used for developing the resource plan will be (one of) the MDWG load forecasts.

MDWG procedure manual

- DSM consists of controllable and non-controllable systems. Load forecasts shall not be reduced for application of controllable DSM.
- Summary of Data Submitter's load forecast data comprisal:
 - Non-coincident to the SPP region
 - 50/50 load forecast
 - Load forecast amount includes non-controllable Demand Side Management
 - Load forecast amount excludes controllable Demand Side Management
 - Load forecast amount excludes Distributed Energy Resources (recommended)

Summary

- In the 2019 ITP loads from the MDWG powerflow model (in aggregation) become the resource planning load forecast.
- Utilities in SPP may be taking efforts to reduce load by controllable load curtailment programs.
 - These efforts are driven by multiple reasons
 - One reason is to reduce peak load and therefore save the cost related to building a system to meet a higher load before curtailments.
- OPPD is appealing the decision of SPP to not accommodate a separate resource planning forecast for the 2019 ITP.
- A better resource expansion plan results from using the load forecasts for which utilities themselves are planning (which may include the benefits of controllable curtailable load).

Motion

Motion that SPP send out a data request for Load forecast for resource planning to accommodate controllable curtailable resources, without impact to the schedule



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Renewable Accreditation

Amber Greb

January 22nd, 2018

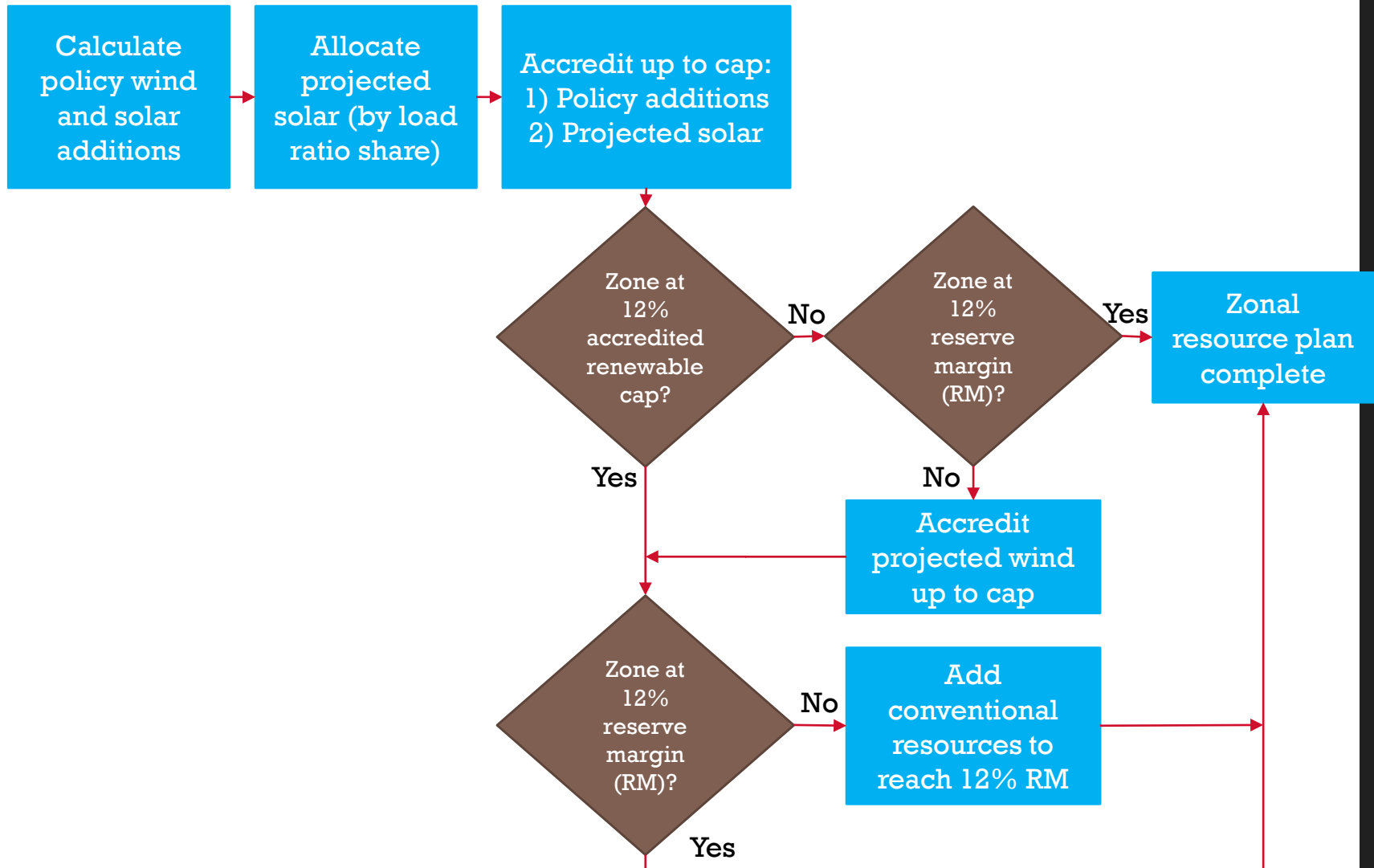
Objective

- Approve policy addition resource mix
- Approve allocation of projected solar
- Approve a methodology to implement the approved accreditation criteria

Overview

- **ITP Scope Language**
 - Accreditation of existing renewable units will follow SPP Planning Criteria 7.1.5.3.7.
 - A new resource that is assigned ownership to a load serving entity within the modeled SPP footprint is eligible for capacity credit.
 - New wind resources will have a 20 percent capacity accreditation.
 - New utility scale solar will have a 70 percent capacity accreditation.
 - Accredited renewable capacity will be capped at 12 percent of a load serving entity's total load.

Renewable Accreditation Decision Tree



SPP Staff Recommendation

- Approve a split representative of the active GI Queue of wind and solar resources for policy additions
- Approve the allocation of projected solar additions based on load ratio share
- Approve implementation of the approved scope language for renewable generation accreditation, including:
 - Allocation of projected wind additions to maximize accreditation to deficient zones, up to zonal renewable cap for new resources
 - Order of accreditation
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Wind and Solar Profiles

2019 ITP

James Bailey

Objective

- Wind
 - Discuss available data source for wind profiles
 - Approve proposed methodology for developing wind profiles
- Solar
 - Approve updated data source for solar profiles
 - Approve proposed methodology for developing solar profiles

Study Requirements

- **Scope Requirement**
 - Future Driver – Increased capacity factor for new/re-powered renewables
- **Milestone Requirements**
 - RP1 and Siting
 - Capacity factors per site
 - RP2
 - Hourly energy profiles per geographic area
 - Economic Model
 - Hourly energy profiles per site

Renewable Data Source Assumptions

- NREL Wind Integration National Dataset
 - Representative of 2012 weather conditions
 - Energy profiles assume 100 meter hub heights
 - Used in 2017 ITP10 study

Renewable Data Source Assumptions

- **NREL Solar Integration National Dataset**
 - Representative of 2012 weather conditions
 - Higher temporal and spatial resolution than 2006 data
 - To be utilized by MISO in MTEP
 - Proposed for use in 2019 ITP study
- **NREL Solar Power Data for Integration Studies**
 - Representative of 2006 weather conditions
 - Used in 2017 ITP10 study

Proposed Methodology

New and existing sites

- Develop automation to retrieve energy profiles from raw 2012 NREL wind and solar data
- Develop automation to create energy profile per site by performing data analysis on multiple profiles in proximity to site

Pros:

- Time saving once automation is in place
- Reduced risk of human error
- Profiles based on more diverse data

Cons:

- Automation development ongoing

2017 ITP10 Methodology

Existing sites

- Utilize 2012 NREL wind profiles already developed for 2017 ITP10
- Utilize 2006 NREL solar profiles already developed for 2017 ITP10

New sites

- Manually retrieve energy profiles for single point in proximity to new site

Pros

- Time saving for existing sites
- Does not require new automation

Cons

- Time consuming for new sites
- Challenges in mapping existing sites from 2017 ITP10 model to sites in ABB model
- Risk of human error
- Profiles based on less diverse data

Recommendation

- Recommend approving use of 2012 NREL solar data ~~with 2006 NREL solar data as a fallback~~
- Recommend approving proposed methodology for development of profiles for wind sites
- Recommend approving proposed methodology for development of profiles for solar sites



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ITP Renewable Pricing

SPP Staff

January 11th, 2018

Overview

- Action Item 187: Address the objections raised to the approved renewable VOM modeling detailed in the ITP manual
- Today's Goals
 - Discuss SPP recommendation to adopt industry standard renewable VOM modeling of \$0 for the 2019 ITP until PPA price modeling is more fully vetted and Revision Request Process
 - Discuss ITP Manual curtailment price methodology implementation and preliminary implementation
 - Review ESWG member requests from October meeting in Appendix as needed

SPP Staff Recommendation

- SPP staff recommends adopting a \$0/MWh solar and wind VOM for the 2019 ITP until PPA price modeling is more fully vetted
 - ITP Manual methodology misrepresents what is believed to be a prevalent PPA type
 - Recommendation consistent with industry standard

Revision Request Process

- Targeting April MOPC approval
- RR drafting to incorporate recommendation
- Internal and External vetting of draft
- 10 day posting requirement for stakeholder comments no later than February 23rd
- Incorporate stakeholder comments (2 days)
- 7 day posting requirement for ESWG approval on March 15th

Renewable Curtailment Price

ITP Manual Language

2.2.1.10 Renewable Pricing

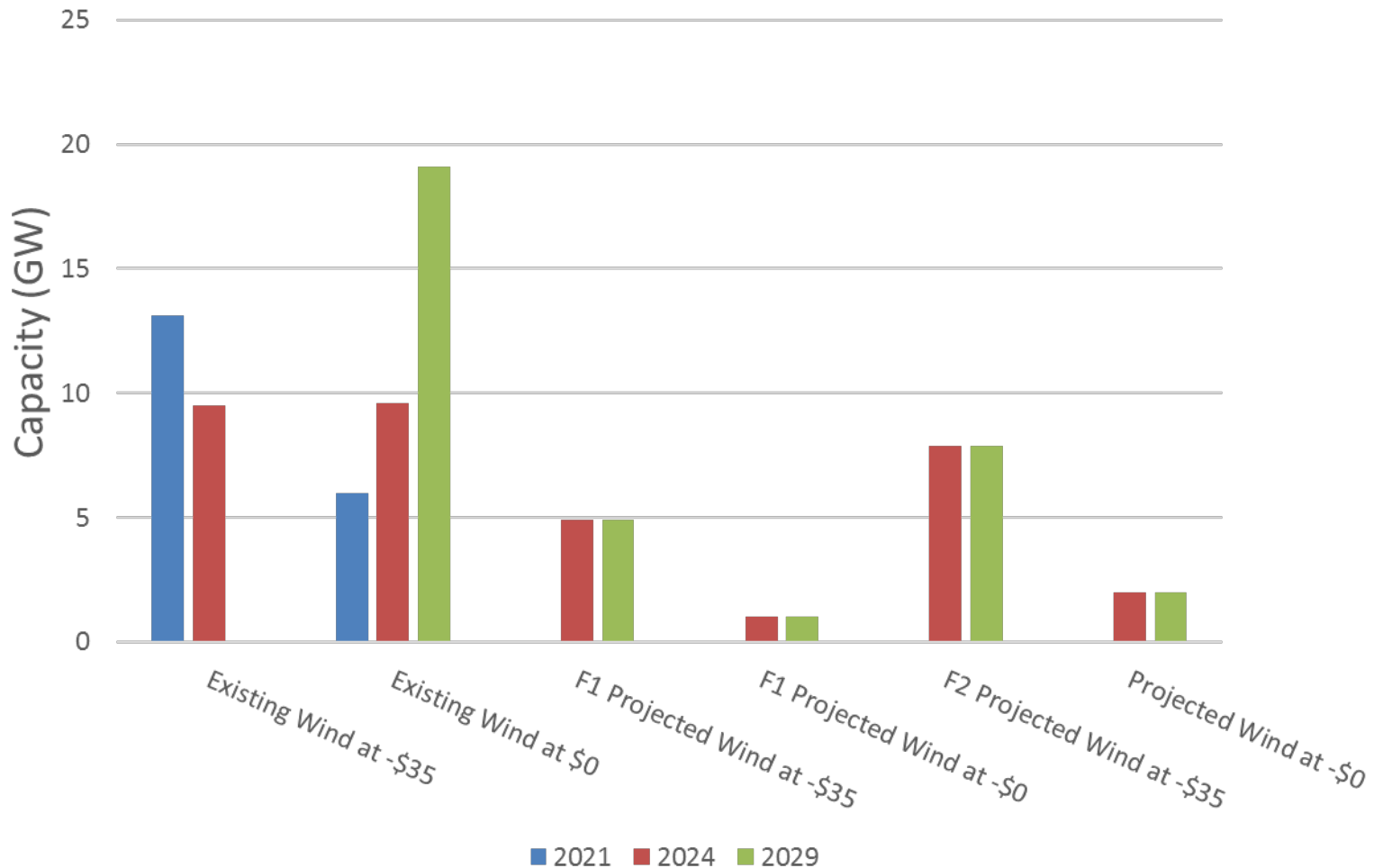
- Curtailment price (Bid Price) – Either Negative \$35/MWh or \$0/MWh
 - Defines LMP price at which the resource will be curtailed
 - Impacts LMPs, curtailment, and dispatch
 - Including range is intended to improve market operation modeling

2019 ITP Curtailment Price Implementation

- Curtailment Price for Wind
 - \$0/MWhr
 - In-service over 10 years prior to study years
 - Construction on the unit has not started prior to January 1, 2020
 - ITC applies (Only 80 MW identified via Gen Review)
 - Otherwise \$-35/MWhr
- For purposes of applying manual language
 - Instead of using per year additions
 - For, F1 Projection: 24 GW by 1/1/2021* and F2 Projection: 27 GW by 1/1/2021*
 - Assume incremental amounts above the 18+GW to have a 1/1/2021 in-service date and assume construction was started prior to 1/1/2020
 - For, F1 and F2 Projections by 1/1/2024 and 1/1/2029
 - Assume incremental amounts above 1/1/2021* projections to have a 1/1/2024 and 1/1/2029 in-service date and assume construction was not started prior to 1/1/2020

*Only 18+GW of Wind included in Year 2 based on intent of the ITP manual not to forecast additional resource expansion and/or retirement forecasts above and beyond what is identified in the gen review

Existing and Projected Wind Capacity Totals by Curtailment Price (Preliminary)



Other Considerations

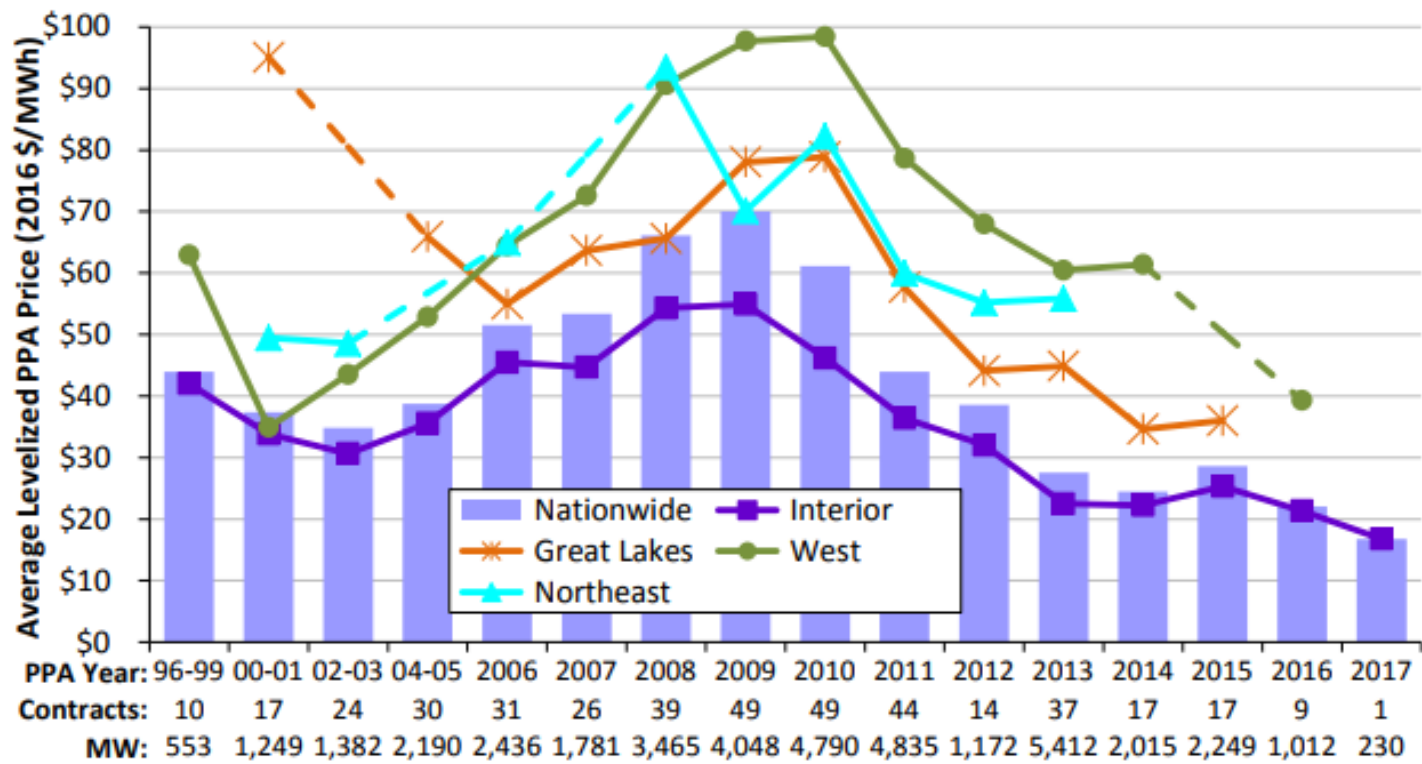
- What do we do with the curtailment and price for external wind resources for modeling consistency?
- SPP staff recommends applying ITP Manual curtailment price methodology to external regions

Appendix

Stakeholder Concerns with PPA based Variable O&M

- Methodology may cause data gathering issues and inconsistency
- Methodology may not be representative of operating cost by definition
- Methodology may not be representative of real-time operations and settlements
- Methodology may be inconsistent
 - Utility owned versus merchant owned
 - Conventional versus renewable
- Reflecting PPA pricing in a renewable unit's cost may reduce the APC benefit of transmission investment to deliver existing and forecasted renewables

Historic Wind PPA Trends



Source: Berkeley Lab

Figure 49. Generation-weighted average levelized wind PPA prices by PPA execution date and region

Source: <https://energy.gov/eere/wind/downloads/2016-wind-technologies-market-report> pages 57-64



Historic Solar PPA Trends

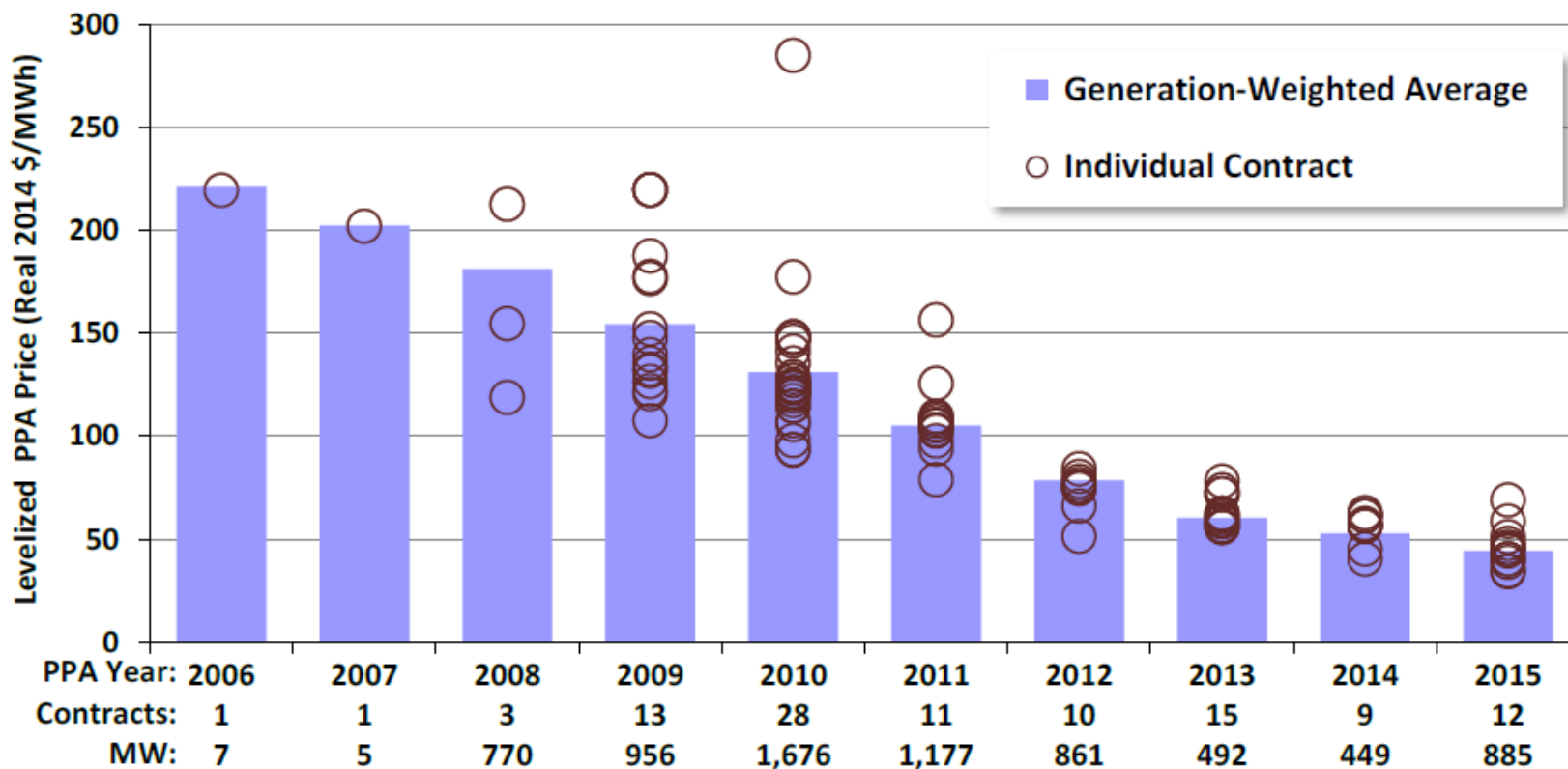


Figure 19. Levelized PV PPA Prices by Contract Vintage

Source: <https://emp.lbl.gov/sites/all/files/lbnl-1000917.pdf>
pages 29-37

2017 ITP10 Portfolio APC Benefit Impact of Modeling \$0 Curtailment and VOM for Wind

2017 ITP10 Economic Model	2017 ITP10 Project Portfolio 1-year SPP Main APC Benefit for 2025 study year (\$M)
Future 1 with \$8/MW hr Curtailment and VOM	45.7
Future 1 with \$0 /MW hr Curtailment and VOM	46.6
Future 3 with \$8/MW hr Curtailment and VOM	61.1
Future 3 with \$0/MW hr Curtailment and VOM	60.9

- Consistent Impacts of Adjusting Curtailment Price and Variable O&M Price on RCAR 2 Results presented February 2017



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2019 ITP Siting Plan

Liz Gephardt

January 11, 2018

Objective

- Inform the group of the status of the Siting Plan and upcoming stakeholder touch points

Resource Siting Manual

- ITP Manual references Resource Siting Manual for documentation of siting guidelines
- The Resource Siting Manual discusses at a high-level:
 - Load pocket analysis
 - Maintaining balance of renewables across footprint
 - Site prioritization and ranking
- Resource Siting Manual
 - Draft approved 6/29/17
 - ESWG Action Item to complete manual
 - Use the 2019 ITP as a proof of concept to detail items above

Tasks in Progress

- **Load Pocket Analysis**
 - Identify top load pockets based on load density, historical congestion, and SPP Annual State of the Market Report
 - Identify any appropriate resource and siting plan changes for top load pocket(s)
- **Maintaining balance of renewables across footprint**
 - Build out renewable repository
 - Assess GI queue
 - Supplement GI queue with additional sites
 - Update remaining state technical potential to account for existing generation
- **Site Prioritization and Ranking**
 - Develop methodology

High-level Schedule

December 2017-March 2018

- Load pocket analysis
- Repository development

January 2018

- Stakeholder feedback on load pocket analysis

February 2018

- Stakeholder review and feedback on repositories

April 2018

- Site prioritization (ESWG review and approval)

May 2018

- Renewable siting plan (ESWG review and approval)

June 2018

- Conventional siting plan (ESWG review and approval)