

PacifiCorp 2020 All-Source Request for Proposals

Bidder's Workshop
July 9, 2020



Logistics

Two sessions

1. The morning session from 9:30 to noon Pacific will cover the 2020AS RFP structure, deliverables, schedule, requirements and energy performance analysis
2. Afternoon session is split into two segments. From 1:00 to 2:30 PM Pacific will cover bid preparation forms and instructions. From 3:00 to 4:30 PM will cover interconnection and transmission service matters including transition interconnection cluster study process.

- Dial in

- [\(503\) 813-6614](tel:5038136614) (US) English (United States)
- [\[503\] 813-5252 \[Portland, OR\]](tel:5038135252) (US) English (United States)
- [\[801\] 220-5252 \[Salt Lake City, UT\]](tel:8012205252) (US) English (United States)
- [\[855\] 499-5252 \[Toll-Free\]](tel:8554995252) (US) English (United States)
- Conference ID: 5624727

Morning Session Agenda

- Purpose of the Workshop
- 2020AS RFP Schedule
- Overview and Scope of the 2020AS RFP
- Independent Evaluators (IEs)
- Resource Types and Requirements
 - Bid Structures
 - Locational Capacity Limits
 - Interconnection Queue Reform Impact on RFP
- 2020 All-Source RFP (2020AS RFP)
 - Document Organization
 - Phase I - Initial Shortlist Selection
 - Phase II – Cluster Study and Contract Development
 - Phase III – Final Shortlist Selection
- Questions and Comments

2020AS RFP Key Points

- The 2020 all-source RFP in 2020 (2020AS RFP) seeks up to 1,823 megawatts (MW) of new proxy solar resources co-located with 595 MW of new proxy battery energy storage system (BESS) capacity and 1,920 MW of new proxy wind resources by the end of 2024.
- Accepting bids from new and existing resources that meet the December 31, 2024 on-line date.
 - Allowing pumped storage hydro (PSH) to bid as a long-lead time resource requiring additional time to develop and construct, placing completion beyond December 31, 2024.
- Minimum project size of 20 MW except for QFs
- Accepting build-transfer agreements (BTA) and power purchase agreements (PPA) for most resource types
 - PSH will be transacted through a tolling agreement while a BESS will be transacted through a battery storage agreement (BSA)
 - PPA term up to 30 years.
- Proposals must be capable of interconnecting with or delivering to PacifiCorp's transmission system in its east or west balancing authority areas (PACE and PACW, respectively).
- RFP will be consistent with PacifiCorp Transmission's transition interconnection cluster study process as defined in their OATT
- No self-build ownership proposals (benchmark resources) or PacifiCorp affiliate bids.
- Bid fee(s) of \$10,000 will be required for each base proposal and two (2) alternatives. Bidders will also be allowed to offer up to three (3) additional alternatives at a fee of \$3,000 each.
- Intent to bid form and bidder credit information will be required prior to bid submittal(s).

Independent Evaluators (IE)

Two Independent evaluators (IE) selected for Oregon and Utah

- PA Consulting has been retained by PacifiCorp on behalf of Public Utility Commission of Oregon.
- Merrimack Energy has been retained by Utah Public Service Commission.

OREGON – PA Consulting - Charles Janecek - 303.250.5060

2020AS_IE@PAConsulting.com

UTAH – Merrimack Energy -Wayne Oliver – (781) 856-0007

MerrimackIE@merrimackenergy.com

Tasks

1. Provide comments on draft RFP design
2. Facilitate and monitor communications between PacifiCorp and bidders
3. Analyze, operate and validate models, assumptions and inputs used in the RFP process, including the scoring, ranking and evaluation of bids
4. Solicit additional information on bids necessary for screening and evaluation purposes
5. Ensure that all the bids are treated in a fair and non-discriminatory manner
6. Monitor, observe, validate and offer feedback to PacifiCorp and the state regulatory commissions
7. Perform other evaluations and tasks as directed Oregon and Utah Commissions

RFP Milestones / Schedule

Phase	Milestone	Date
	RFP Issued to market	07/07/2020
	Notice of Intent to Bid due	07/20/2020
	Last day for RFP questions to IEs for Q&A	08/03/2020
	RFP bids due	08/10/2020
I	Bid eligibility screening completed	08/17/2020
	Initial Shortlist (ISL) scoring/ranking completed	09/04/2020
	IRP modeling generates ISL	10/05/2020
	IEs' review of ISL completed	10/09/2020
	PacifiCorp notifies bidders selected to ISL	10/14/2020
II	ISL bidders notify Pac Trans to enter cluster study	10/15/2020
	Capacity factor and BESS evaluation on ISL started	10/19/2020
	Begin contract review and negotiations with ISL (subject to OAR waiver)	10/19/2020
	Capacity factor and BESS evaluation on ISL completed	01/31/2021
	Complete contract negotiations on near final draft with bidders	03/31/2021
	Cluster study results posted to OASIS / bidders notified by Pac Trans	04/15/2021
	Bidders provide ISL price update including cluster study results	04/22/2021
III	Submit updated bids to IRP modeling	04/27/2021
	IRP modeling generates Final Shortlist (FSL)	05/20/2021
	Final Shortlist (FSL) selected	05/25/2021
	IEs' review of FSL Completed	06/01/2021
	Utah and Oregon Commission FSL Approval or Acknowledgement	09/09-15/2021
	Complete negotiation of T&Cs for resource agreements	10/15/2021
	Execute Agreements	11/08/2021

Resource Types

RESOURCE TYPE	BID STRUCTURE ACCEPTED		
	PPA	BSA	BTA
Renewable	X		X
Renewable Plus Battery Storage	X		X
Non-renewable	X		X
Standalone Battery Storage		X	X
Pumped Storage Hydro		TOLL	X

- Bids are accepted for existing operating facilities with certain conditions
 1. Bidder cannot terminate an existing contract to bid into the 2020AS RFP
 2. The existing contract must expire before the required on-line date as proposed in a bidder's bid but no later than December 31, 2024.
 3. Bid must meet all other requirements in the 2020AS RFP
- All renewable capacity, energy, and associated environmental attributes go to PacifiCorp.
- BTA bids MUST directly interconnect to PacifiCorp's system.
- Proposed BTA projects must be constructed to PacifiCorp's standards and specifications. BTA specifications provided for wind, solar, and BESS.
- Bids can have contract term up to 30 years.

Battery Energy Storage System

PacifiCorp's 2020AS RFP guidelines regarding battery installed capacity and storage duration should be used by bidders in preparing their bid and bid alternative

Battery Type	Minimum Installed Capacity (% of Collocated Renewable Resource)	Storage Duration (hours) at Guaranteed Capacity	
		Minimum	Maximum
Lithium-Ion	25%	2	6
Flow batteries	25%	2	12
All other types	25%	2	N/A

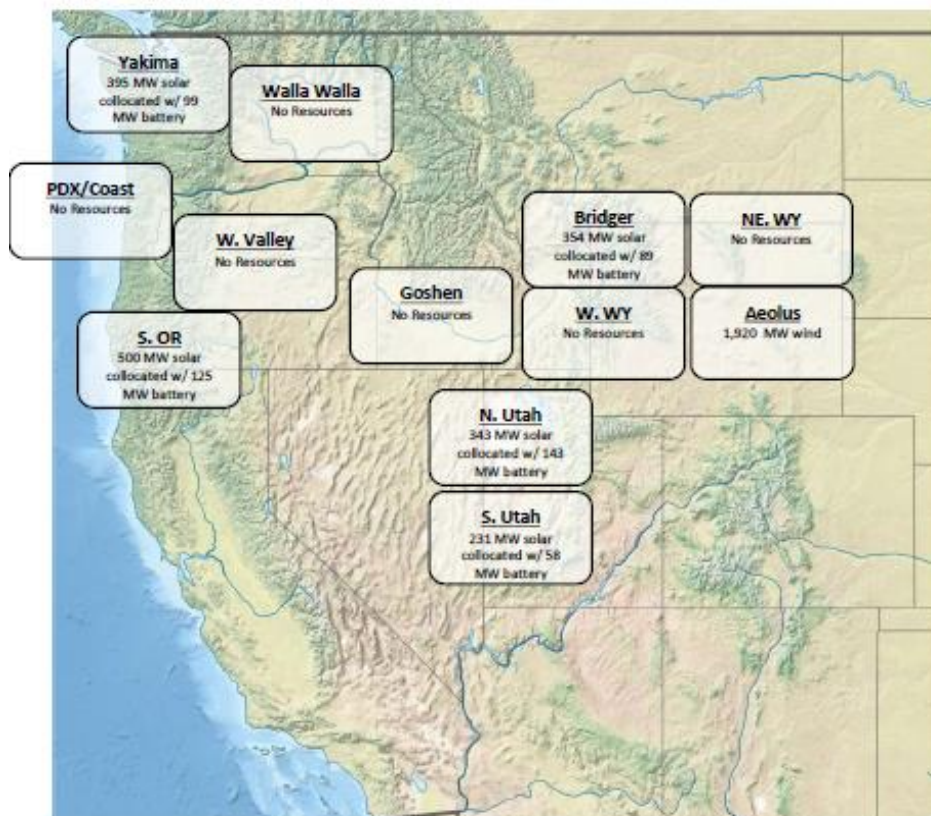
- Full dispatch control of the collocated or standalone battery (charge and discharge)
- BESS can be DC or AC grid connected
- Bids with and without battery augmentation over the term
- BESS or Standalone battery bids as a BTA must conform to the PacifiCorp's BESS technical specification in Appendix A

Bid Structures

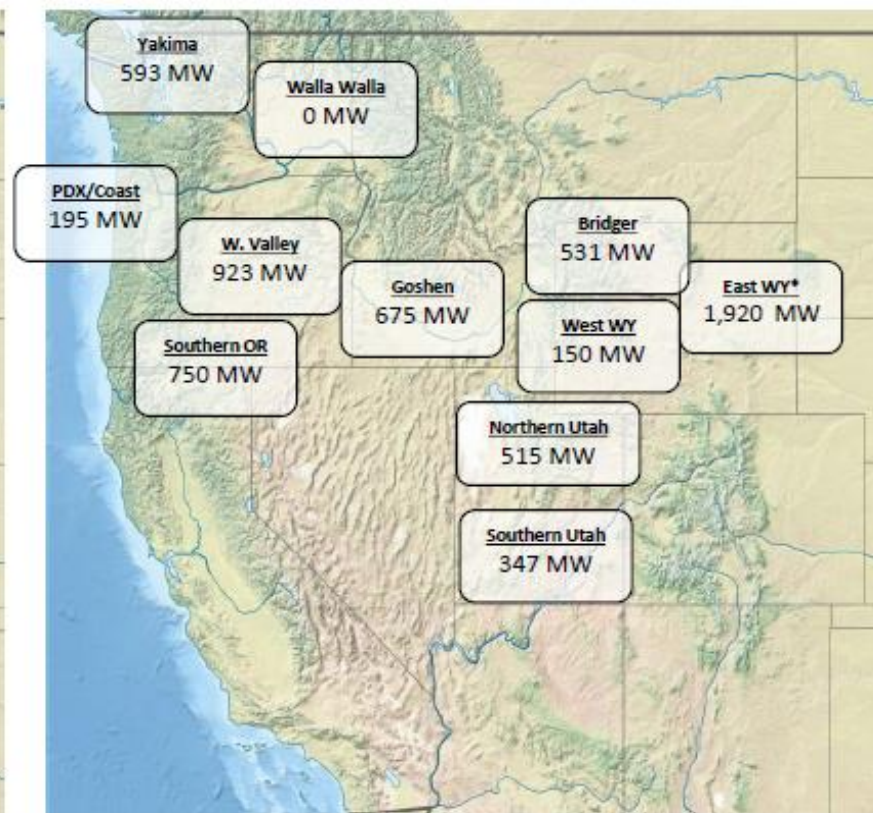
- Build-transfer transaction whereby the bidder develops the project, assumes responsibility for construction and ultimately transfers the asset to PacifiCorp in accordance with the terms of a build-transfer agreement (BTA). Under this transaction structure, the bidder will be responsible for all development, design, equipment supply, construction, commissioning, and performance testing, and will be required to design and construct the resource in conformance with PacifiCorp's BTA specifications in Appendix A
- Power-purchase agreement (PPA) with exclusive ownership by PacifiCorp of any and all capacity and environmental attributes associated with all energy generated with terms up to 30 years. PacifiCorp provides two forms of PPA; resource only and BESS collocated with a renewable resource.
- Control of the output of a BESS as a standalone BESS through a Battery Storage Agreement (BSA) with a term up to 30 years.
- Pumped storage hydro will be transacted through an individually negotiated tolling agreement with a term up to 30 years.

Locational Capacity Limits

2019 IRP Preferred Portfolio Resources Online by Year-End 2023
(Excludes Customer Preference Resources)



Locational Initial Shortlist Capacity Limits
(1.5x Pref. Port. or 1.5x Assumed Interconnection Limit)



*Note, eastern Wyoming includes Aeolus and NE Wyoming, which combined, will be limited to 1,920 MW.

Major Substations associated with Locational Capacity Limits

Matrix identifies the major substations that are associated with the Locational Capacity Limits in Appendix H.

WYOMING		UTAH		OREGON	WASHINGTON
Bridger	East WY	Northern Utah	Southern Utah	Southern Oregon	Walla Walla
Jim Bridger	Aeolus	Ben Lomond	Abajo	Captain Jack	Talbot
	Amasa	Black Rock	Emery	PacifiCorp's Malin 500 kV	Walla Walla
West WY	Bar Nunn	Chappel Creek	Enterprise	Baldwin Road (2)	
Rock Springs	Casper	Chimney Butte	Enterprise Valley	Corral(2)	Yakima
Lima	Dave Johnston	Clover	McFadden	Houston Lake (2)	Sunnyside
Raven	Foote Creek	Craner Flat	Moore	Ponderosa (2)	
West Vaco	Freezeout	Homestead Knoll	Parowan	Stearns Butte (2)	IDAHO
	Heward	Horseshoe	Pavant		Goshen
	Latigo	Lampo	Sigurd	Portland/Coast	Antelope
	Shirley Basin	Limber	Salina	None identified	Goshen
	Standpipe	Mathington	South Milford		Kettle
	Windstar	Mona	Three Peaks	Willamette Valley	
	Yellowtail	Oquirrh	West Cedar	None identified	Borah (1)
		Sage			Populus
		Summit Creek			
		Terminal			MONTANA (3)
		Tooele Depot			Broadview
					Colstrip
					Gordon Butte

Interconnection Queue Reform Impact on RFP

- PacifiCorp Transmission has received approval from the Federal Energy Regulatory Commission (FERC) reforming its interconnection study process set forth in its Open Access Transmission Tariff (OATT). PacifiCorp Transmission has replaced its long standing “serial queue” interconnection study process with a “first-ready, first-served, cluster” interconnection study approach.
- PacifiCorp’s process for bid evaluation, scoring, modeling, and selection reflects PacifiCorp Transmission’s proposed interconnection queue reform process as described in OATT.
- In the event that FERC issues an order on reconsideration in Docket ER20-924-000 before August 10, 2020 that changes the current transition interconnection cluster study cut-off date of January 31, 2020, PacifiCorp will modify the eligibility cut-off date in the 2020AS RFP to align with the new cut-off date.
- The bid due date remains at August 10, 2020 and will not be extended for the condition above. Any bidders who have an interconnection request after the current cut-off date January 31, 2020 should have their bid prepared in anticipation of filing the bid on the August 10th bid due date, in the event that FERC issues an order on rehearing that changes the cut-off date.
- Costs for any direct assigned and transmission network upgrades associated with the interconnection of a proposed project to PacifiCorp’s transmission system will not be a bid requirement or included in the initial shortlist price evaluation.
- PacifiCorp will review the bidder’s interconnection documentation to confirm it aligns with the bid submittal.
- Bidders should be aware of and clearly understand the specific steps, criteria, milestones and schedule of PacifiCorp Transmission queue reform and transition cluster study process.
- Bidders selected to the initial shortlist who are rejected by PacifiCorp Transmission for not meeting all of PacifiCorp Transmission’s non-commercial readiness criteria necessary to be included in the transition cluster study will be removed by PacifiCorp from the initial shortlist and deemed a non-conforming bid.

RFP Document

Main

Section 1. Introduction

Section 2. Procedural items

Section 3. General information and logistics

Section 4. RFP content and submittal instructions

Section 5. Resource information

Section 6. Bid evaluation and selection

Section 7. Awarding of contracts

Appendices

APPENDIX A 2020AS RFP Project Technical Specification for BTAs

APPENDIX B-1 Notice of Intent to Bid

APPENDIX B-2 Instructions and Information Required in Bid Proposals

APPENDIX C-1 Bid Summary and Pricing Input Sheet (Instructions)

APPENDIX C-2 Bid Summary and Pricing Input Sheet

APPENDIX C-3 Third Party Energy Performance Report

APPENDIX D Bidder's Credit Information

APPENDIX E-1 PPA and BSA Instructions to Bidders

Appendix E-2 Power Purchase Agreement (PPA) Documents

Appendix E-3 Battery Storage Agreement (BSA) Documents

Appendix E-4 Pumped Storage Hydro (PSH) Toll Documents

APPENDIX F-1 BTA Instructions to Bidders

APPENDIX F-2 Build Transfer Agreement (BTA) Documents

APPENDIX G-1 Confidentiality Agreement

APPENDIX G-2 Non-Reliance Letter

APPENDIX H 2020AS RFP Locational Capacity Limits

APPENDIX H-1 Major Substations associated with Locational Capacity Limits

APPENDIX I FERC's Standards of Conduct

APPENDIX J PacifiCorp Transmission Waiver

APPENDIX K General Services Contract-Operations & Maintenance Services for Project

APPENDIX L Non-Price Scoring Matrix

APPENDIX M Role of the Independent Evaluator

APPENDIX N PacifiCorp's Organization for RFP Process



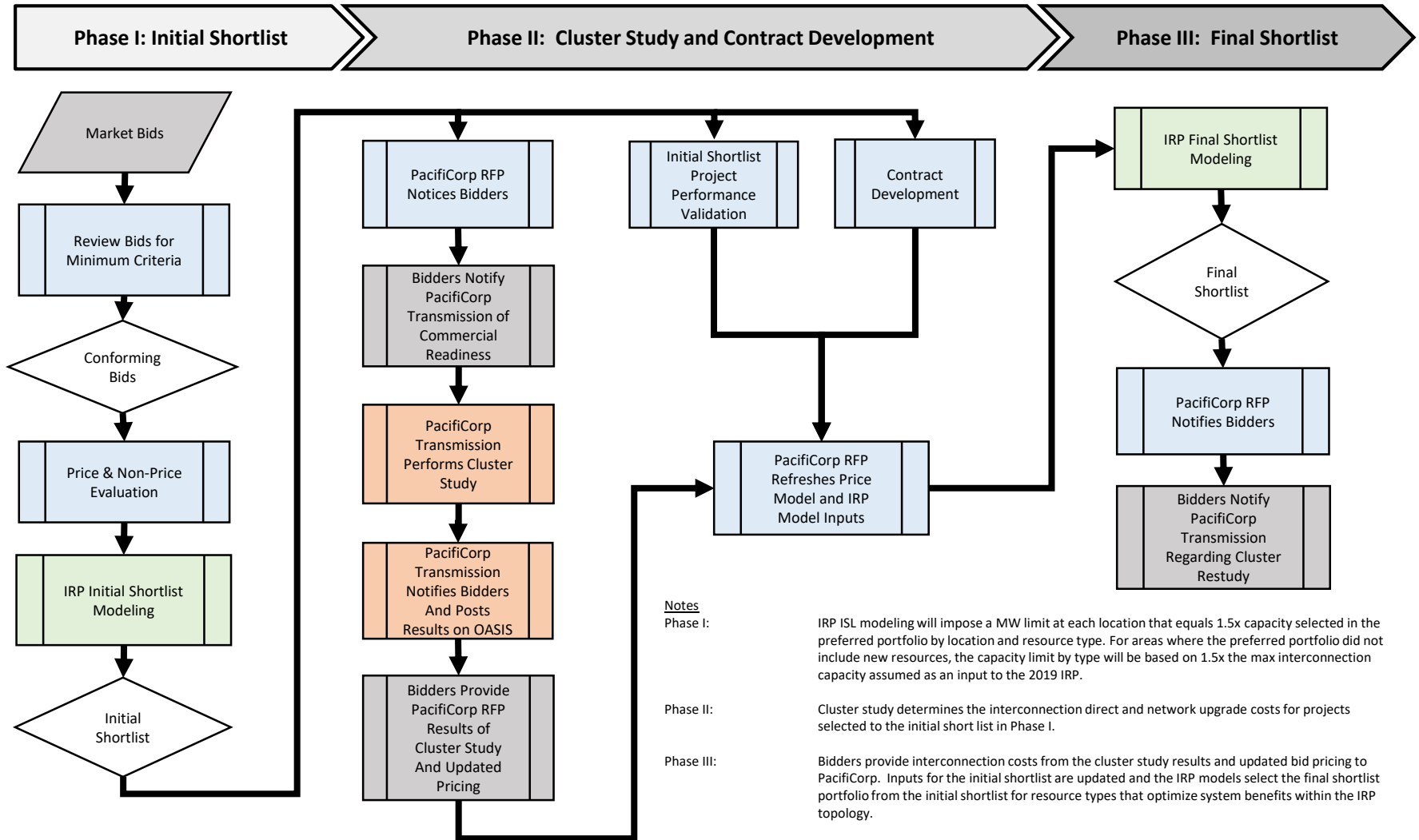
RFP EVALUATION AND SELECTION PROCESS

Evaluation and Selection Criteria

PacifiCorp will evaluate proposals based on the following:

- The total net costs, including capacity and energy (and storage, if applicable). The total net costs are compared on a \$/kW basis, after application of the capacity contribution.
- Deliverability of the proposal, including site control, development maturity and status, developer's experience, and demonstration that the project's commercial operation date will be achieved by December 31, 2024
- Interconnection request aligned with bid and meets RFP requirements
- Compliance with and verification of major equipment availability defined in the RFP specifications
- Ability to provide acceptable credit security as determined by bidder's credit information
- Conformance with the terms and conditions in the pro forma contracts including the power purchase agreement, build-transfer agreement and battery storage agreement, as applicable to the individual bid

Evaluation Process



Evaluation Models

Screening Model:

- Used to assess price score as part of the initial shortlist selection process; spreadsheet based
- Calculates delivered revenue requirement cost
- Costs netted against customer benefits (*i.e.*, energy, operating reserves, terminal value)
- Location-specific energy and operating reserve benefits calculated within the PaR model
- For proposals with storage, energy and operating reserve value is evaluated by applying StorageVET and PaR model inputs
 - StorageVET, an open-source Python-based storage value estimation tool developed by the Electric Power Research Institute (EPRI) that implements dispatch optimization with sensitivity analysis to assist in planning and evaluating energy projects
- Price score ranking is based on a proposal's net cost per kW of system capacity contribution, calculated by dividing a proposal's levelized net cost by its estimated contribution to system capacity

System Optimizer (SO model):

- Used to establish the final shortlist
- Dynamically develops resource portfolios, (*i.e.*, operating reserves, unit commitment) in both initial and final short list processes

Planning and Risk (PaR):

- Used to develop energy and operating reserve benefits for the initial shortlist
- Run deterministic reliability assessments to inform additional bid resources in SO necessary to achieve reliability. (in both the initial and final short list run)

Phase I : Initial Shortlist

STEPS

1. Conformance to minimum requirements in RFP
2. Price and non-price scoring and ranking
 - Price score (75%) / non-price score (25%)
 - Conforming bids will be evaluated and ranked with PacifiCorp's screening models by resource type within each IRP topology location. PacifiCorp will limit the capacity in a given location and by resource type to 150% of the capacity included in the company's 2019 IRP preferred portfolio with the exception of eastern Wyoming which will be 100%.
3. IRP modeling and selection of the initial shortlist
4. Initial shortlist notification by PacifiCorp
5. Bidder notification to PacifiCorp Transmission of selection to initial shortlist, thereby meeting PacifiCorp Transmission's "commercial readiness" criteria
 - Bidders selected to the initial shortlist who are rejected by PacifiCorp Transmission for not meeting all of PacifiCorp Transmission's non-commercial readiness criteria necessary to be included in the transition cluster study will be removed by PacifiCorp from the initial shortlist and deemed a non-conforming bid.

Non-Price Scoring

Non-Price Factor	Max Score
1. Bid Submittal Completeness	5%
Bids provided all required RFP information pursuant to RFP instructions for PPA and BTA, including accuracy of such information including the specific Appendices listed below;	Multiple RFP bid submittal documents missing requested information = 1% One or two RFP bid submittal documents missing requested information = 2% All documents complete = 3%
• Appendix B-2 Information required in Proposal	
• Appendix C-2 Bid Summary and Pricing Input Sheet	
• Appendix C-3 3rd Party Performance Report including site data	
• Appendix D Bidder's Credit Information	
Bid in compliance with technical or operating specifications as outlined in Appendix A as applicable to resource type and bid structure	Major components out of compliance = 0% Some major components in compliance = 1% All major components in compliance = 2%
2. Contracting Progression and Viability	5%
Bidder provided Appendix E-2 PPA document redline and comments Bidder provided Appendix E-3 battery storage document redline and comments Bidder provided Appendix F-2 BTA termsheet redline and comments	No written comments or redlines provided, or bid states that redline and comments will be provided upon selection = 0% Completed task of providing either written comments or redlines, but not both = 3% Both written comments and redlines provided = 5%
3. Project Readiness and Deliverability	15%
Bidder's development and construction experience related to large energy and/or storage projects including O&M plan and financing plan.	No operating projects = 0% < 300 MW operating projects = 1% > = 300 MW operating projects = 2%
Bids demonstrated site control consistent with PacifiCorp Transmission's Site Control definition.	< 50% under lease or purchase option = 0% Lease option on full site = 2% Lease or purchase for full site = 3%
Bid provided sufficient detail, including schedule(s) and documentation, to demonstrate the ability of meeting all of the project's environmental compliance, studies, permits such that the December 31, 2024 COD is met (or a potential later date in the case of PSH resources)	Major studies & permits not started = 0% 50% of major studies & permits complete = 3% 100% of major studies & permits complete = 6%
Bid provided sufficient detail, including schedule(s) and documentation, to demonstrate the ability of meeting equipment procurement needs and managing supply chain risks such that the December 31, 2024 COD is met (or a potential later date in the case of pump storage hydro and nuclear resources)	No documentation provided = 0% Detail provided without addressing management of supply chain risks = 1% Detail provided including addressing management of supply chain risks = 2%
Bid included documentation that projects qualify for and would receive the full or partial value of the federal tax credit as interpreted by applicable guidelines and rules of the Internal Revenue Service at commercial operation.	No documentation = 0% Qualification through construction = 1% Documentation of safe harbor equipment = 2%
TOTAL	25%

Phase II: Interconnection Cluster Study / Contract Development

1. Interconnection transition cluster study report
 - Expected to take approximately six (6) months
2. Resource capacity factor verification and storage performance
 - Done in parallel with interconnection transition cluster study
 - Third-party expert verification of capacity factor for variable resources (i.e., wind and solar)
 - Third-party expert assistance in evaluation of battery storage performance
3. Contract development
 - PacifiCorp proposes to work through terms and conditions of applicable contracts with initial shortlist in parallel with the interconnection transition cluster study.
 - Reach near final version of contract
 - Provides final shortlist developers with additional time to reach critical commercial operation prior to sunset of federal tax credits
 - Requires waiver from Public Utility Commission of Oregon
4. Bid update
 - Initial shortlist updates bid pricing and provides direct interconnection costs and network upgrade costs associated with the interconnection.

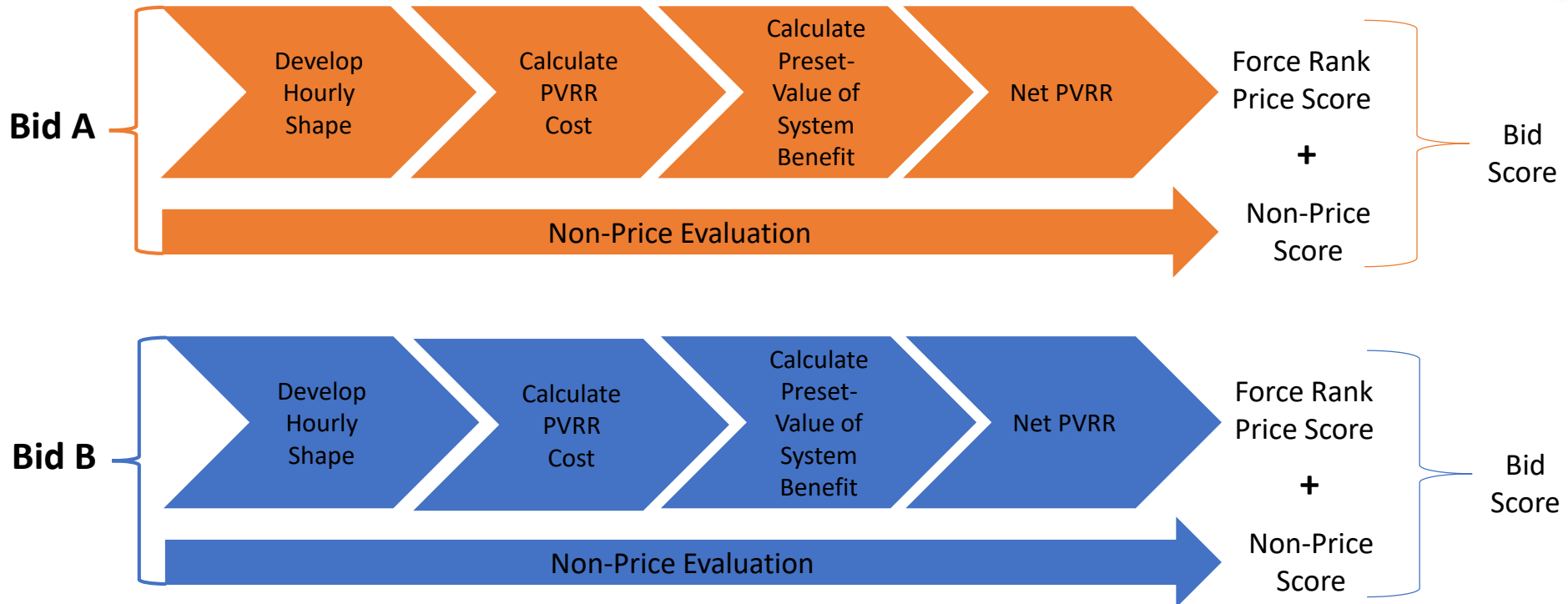
Phase III: Final Shortlist Selection

1. Processing of best and final bids
 - Updating of screening model to prepare inputs for IRP modeling
2. Bid Resource Portfolio Development
 - Portfolio selection targets set at 2019 IRP Preferred Portfolio levels shown
3. Stochastic scenario risk analysis
4. Other factors: Applicable law and statutory requirements
5. Restudy of interconnection cluster if needed
6. Final 2020AS RFP shortlist selection

EXAMPLE: Mock-up of RFP Process – Hypothetical Bids

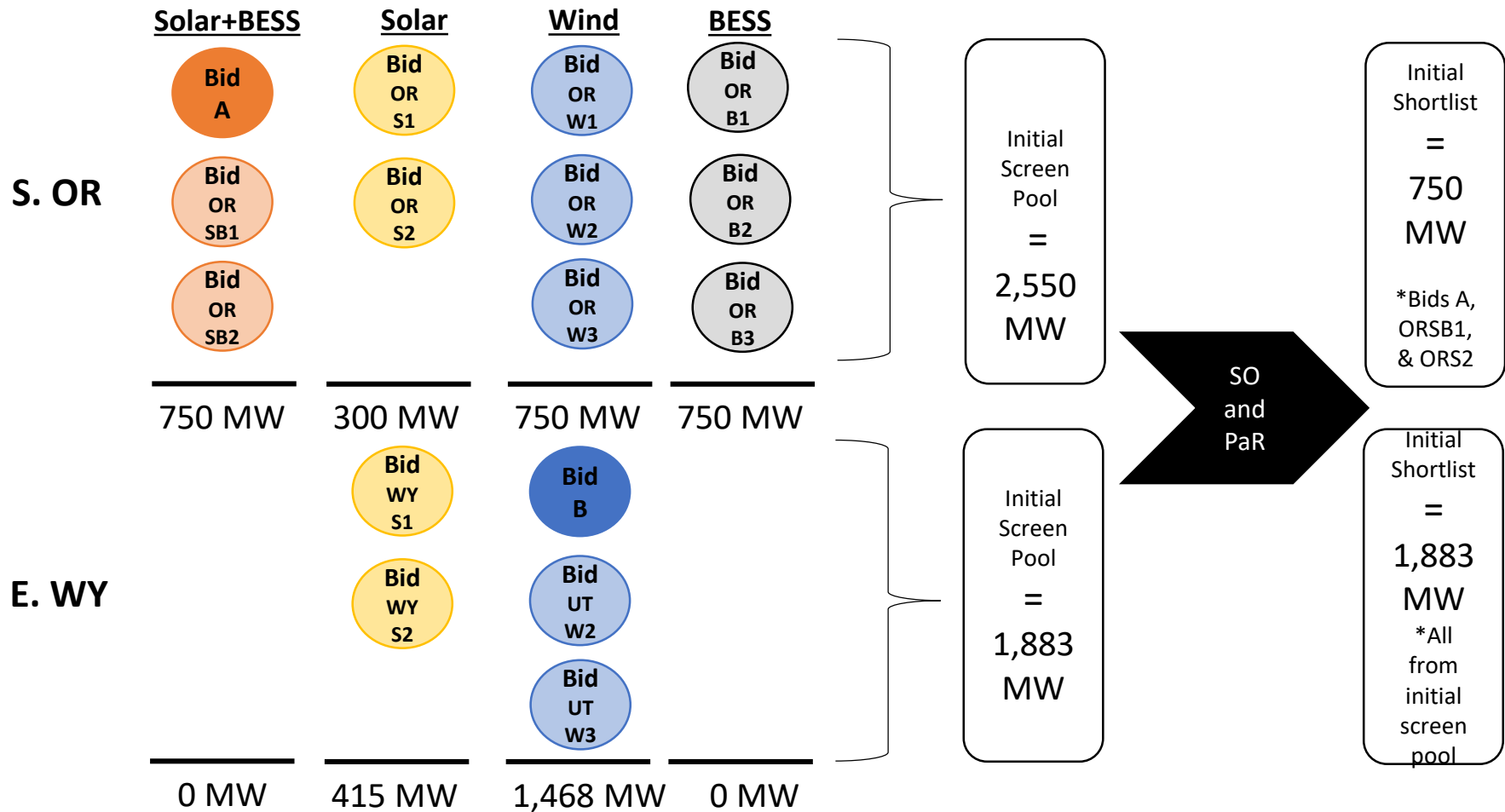
	Bid A	Bid B
Type	Solar with 4-Hour BESS	60% PTC Wind
Location	Southern Oregon	Eastern Wyoming
COD	12/31/2023	12/31/2024
Term/Life	20 years	30 years
Size	250 MW	200 MW
New and Clean Capacity Factor	31%	44%
PPA Price	\$25/MWh	n/a
Structure	PPA with BESS	BTA
Capital	n/a	\$300 million (progress payments)
O&M (OEM Period)	n/a	\$4.8 million/year (fixed)
Owner's O&M	n/a	\$4.3 million/year (escalating)

EXAMPLE: Initial Screening



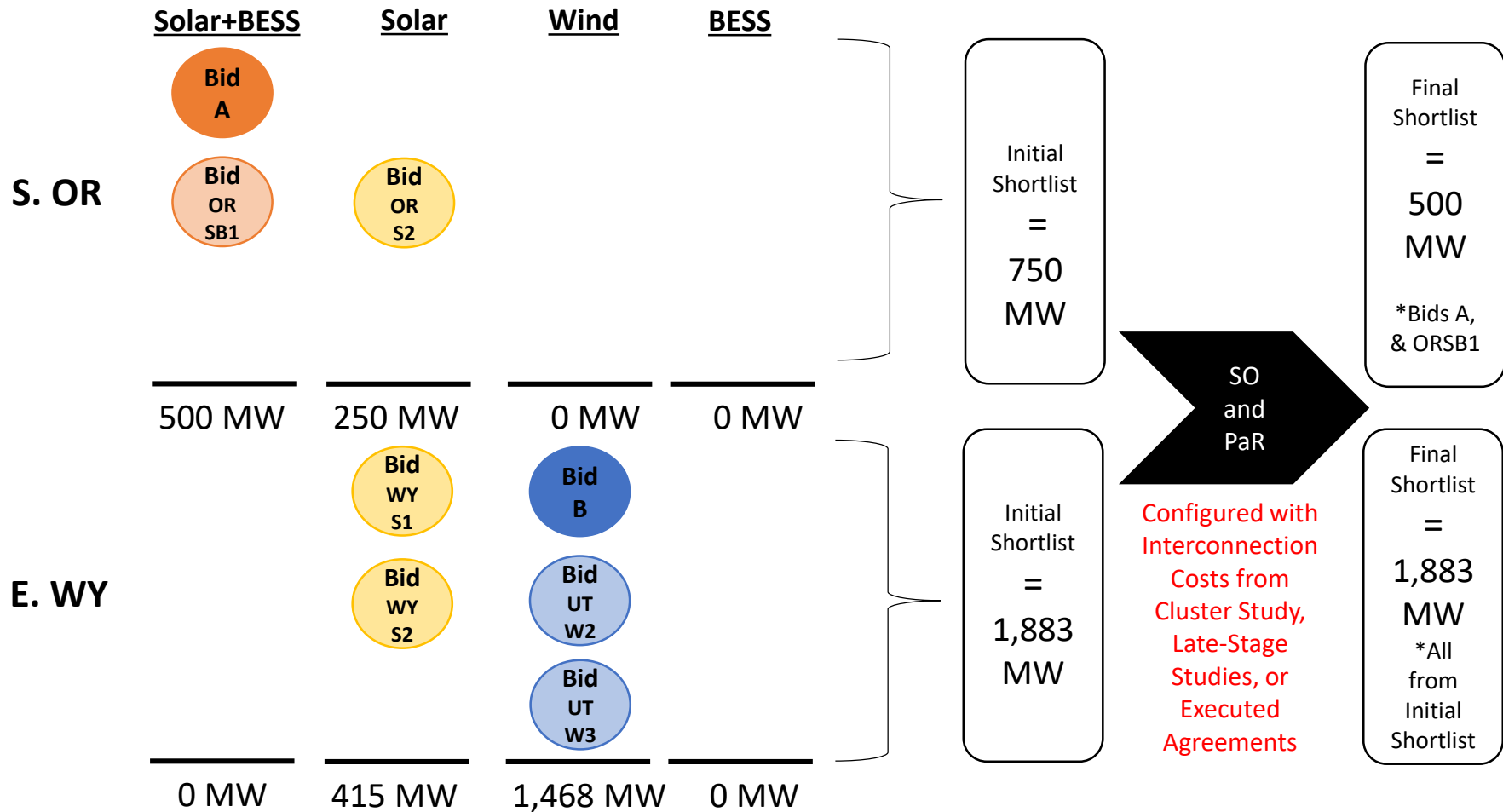
- This step filters out the least competitive bids on price and non-price factors, while maintaining a sizeable pool of resource options available for further and more detailed system modeling (in accordance with the location-specific MW limits by bubble and technology identified in the draft RFP).
- The basic steps above will be completed for all conforming bids.
- Costs will reflect bids costs (i.e., PPA price, capital revenue requirement net of PTCs, run-rate costs, wheeling costs, etc., as applicable to the bid) and system costs (i.e., integration, incremental reserves) net of terminal value (as applicable)—interconnection network upgrades are not assessed at this stage.
- System benefits will be calculated by multiplying hourly benefit curves, derived from Planning and Risk model simulations in advance of receiving bids, expressed in \$/MWh by the hourly shape of the bid—these curves will be specific to each bubble.

EXAMPLE: Initial Shortlist



- The initial shortlist relies on IRP modeling tools—System Optimizer (SO) and Planning and Risk (PaR)—to select bids from the initial screening pool.
- As in the initial screening step of the process, the initial shortlist step of the process will not include interconnection network upgrade costs.

EXAMPLE: Final Shortlist



- The final shortlist also relies on IRP modeling tools—System Optimizer (SO) and Planning and Risk (PaR)—to select bids from the initial shortlist.
- Having passed through the cluster study process, the SO and PaR models are configured to reflect interconnection costs to ensure that selection of the final shortlist captures these cost impacts from across the system.

Next Steps

- Questions or comments regarding this workshop should be sent to the RFP mailbox or to the IEs at their mailboxes shown early, even if an answer was provided verbally in today's meeting, to ensure all Bidders receive responses:


RFPAllsource@pacificorp.com

- Bidders are encouraged to review the current questions and answers on the RFP webpage under Documents labeled 2020AS RFP Questions through “Date”.
- 2020AS RFP information, including any updates or upcoming workshops will be provided at www.pacificorp.com, as information is developed. From website main page, go to Suppliers, then RFPs, then 2020AS RFP.

<https://www.pacificorp.com/suppliers/rfps/all-source-rfp.html>



QUESTIONS ON GENERAL RFP?



**INTENT TO BID
AND
BID PREPARATION
(1:00 to 2:30 PM Pacific)**

Intent to Bid Requirements

- Bidders must return the following completed documents in an electronic copy to PacifiCorp and IE's email addresses, no later than **5:00 p.m. Pacific Prevailing Time on Monday July 20, 2020**, to be accepted as a bidder in the 2020AS RFP:

Appendix B-1 – Notice of Intent to Bid Form

Appendix D - Bidder's Credit Information

Appendix G-1 - Confidentiality Agreement

Email: RFPallsource@pacificorp.com
 2020AS_IE@PAConsulting.com
 MerrimackIE@merrimackenergy.com

- Upon receipt of Intent to Bid form, PacifiCorp will provide an acknowledgment of receipt and directions for bid fee submittals.
- Documents not completed may be grounds for disqualification of a bid.

Intent to Bid Form

	Base Bid	Bid Alternative
Bidder Company (legal entity of intended signatory to a contract)		
Company Ownership (direct and indirect owners of Company; include organizational chart)		
Contact Person		
Mailing Address		
Phone(s)		
Email		
Project / Facility Name		
Resource type		
Storage type, if included		
Structure: BTA, PPA, BSA		
If a PPA or PPA with BESS, indicate term in years		
Size of each bid asset in MW capacity (nominal)		
Location (County, State)		
GPS coordinates		
Proposed point of interconnection to PacifiCorp's system or if off-system, proposed point of delivery		
PacifiCorp interconnection queue #		
Estimated Commercial Operation Date (month/year)		

Bid Submission Requirements

CHANGE TO BID SUBMISSION

Two forms of bid submittal are required:

1. Electronic copy of the bid on USB flash drives accompanied by a cover letter signed by an officer of the bidding company;
2. Electronic copy via email. Submitted to PacifiCorp and IE's mailboxes.

The USB flash drives should be delivered by FedEx, UPS, express, certified or registered mail to the following address:

PacifiCorp 2020AS RFP

Attention: Resource & Commercial Strategy

825 NE Multnomah, Suite 600

Portland, Oregon 97232

Bids will be accepted until 5:00 p.m. Pacific Prevailing Time on Monday August 10, 2020. PacifiCorp will not accept any late proposals. Any bids received after this time will be returned to the bidder unopened.

All bid proposals shall have a bid validity date through 5:00 pm PPT, Thursday April 22, 2021.

Bid Fee Guidelines

Resource	Base Bid	Bid Alternatives
Wind	PPA, BTA, or PPA/BTA combinations are separate base bids. BTA bids only accepted for projects directly interconnecting with PacifiCorp's system.	Limited to different contract terms, in-service dates, and/or pricing.
Solar	PPA or BTA are separate base bids. BTA bids only accepted for projects directly interconnecting with PacifiCorp's system.	Limited to different contract terms, in-service dates, and/or pricing
Collocated BESS	PPA or BTA collocated with BESS. PPA or BTA would be separate bid.	Collocated bids that include a BESS must submit a base bid that includes battery augmentation and non-augmentation. Non-augmentation does not constitute a bid alternative. Other alternatives limited to different contract terms, in-service dates, and/or pricing.
Standalone BESS	BSA or BTA would be separate bid.	Standalone BESS bids must submit a base bid that includes battery augmentation and non-augmentation. Non-augmentation does not constitute a bid alternative. Other alternatives limited to different contract terms, in-service dates, and/or pricing.
Other renewables	PPA or BTA would be separate bid.	Limited to different contract terms, in-service dates, and/or pricing
Non-renewables	PPA or BTA would be separate bid.	Limited to different contract terms, in-service dates, and/or pricing

- Bid Fee of \$10,000 for each base proposal and two (2) alternatives submitted.
- Bidders will also be allowed to offer up to three (3) additional alternatives to the base proposal at a fee of \$3,000 per alternative.

Bid Submission Checklist

A	B	C	D	E
	2020AS RFP Bid Applicability	Bid must include completed Appendix	Applicable to	
Appendix			PPA/BSA/PSH	BTA
<i>Appendix A</i>	<i>Resource Technical Specifications (Wind, Solar, BESS)</i>			X
<i>Appendix A-2</i>	<i>Interconnection Agreement, if available</i>	X	X	X
<i>Appendix A-3</i>	<i>Permit-Matrix</i>	X	X	X
<i>Appendix A-5</i>	<i>Project One-Line Drawing and Layout</i>	X	X	X
<i>Appendix A-6</i>	<i>Division of Responsibility</i>	X		X
<i>Appendix A-7</i>	<i>Owner Standards and Specification</i>			X
<i>Appendix A-9</i>	<i>Product Data- Equipment Supply Matrix</i>	X	X	X
<i>Appendix A-10</i>	<i>Plant Performance Guarantee/Warranties</i>	X		X
Appendix B-1	Intent to Bid Form as submitted	X	X	X
Appendix B-2	Information Required in Bid Proposal		X	X
Appendix C-1	Bid Summary and Pricing Input Sheet Instructions		X	X
Appendix C-2	Bid Summary and Pricing Input Sheet	X	X	X
Appendix C-3	Energy Performance Report	X	X	X
Appendix E-1	PPA Instructions to Bidders		X	
Appendix E-2	Redline to PPA and exhibits (PPA or PPA w/ BESS)	X	X	
Appendix E-3	Redline to BSA and exhibits	X	X	
Appendix E-4	Redline to PSH Toll Termsheet	X		
Appendix F-1	BTA Instructions to bidders			X
Appendix F-2	Redline to BTA Term Sheet	X		X
Appendix G-1	Confidentiality Agreement	X	X	X
Appendix J	PacifiCorp Transmission Waiver	X	X	X
Appendix K	General Services Contract-O&M Services	X		X

Appendix C-2 Bid Summary and Pricing Input Sheet

Tab	Description	Resource Category				Structure		
		Renewable	Renewable plus storage	Standalone Storage	Non-Renewables	PPA	BTA	BSA
1	Data Inputs	Project detail	X	X	X	X	X	X
2	8760 First Year Generation Profile	First contract year - Expected 8760 Net Energy delivered to PacifiCorp at P50 Production - Applies to renewables	X	X			X	X
3	PPA Pricing	PPA Pricing structure	X	X	X	X	X	
4	Battery Pricing & Ops	BESS pricing and Operations		X	X			X
5	Non-Renewable Price Schedule	Pricing schedule for Tolling Agreements, CCCT, SCCT, Pumped Storage, or Methane Bids Only				X	X	
6	BTA Pricing	BTA pricing structure	X	X		X		X
7	Non-Renewable Site Info	Site Conditions for CCCT and SCCT				X	X	X
8	Startup Parameters	Startup parameters for CCCT and SCCT				X	X	X
9	Expected Performance	Expected performance for CCCT and SCCT				X	X	X
10	Additional Data	Blank tab to add data	X	X	X	X	X	X



QUESTIONS ON BID PREPARATION?



**INTERCONNECTION AND
TRANSITION CLUSTER
DISCUSSION
(3:00 to 4:30 PM Pacific)**

Interconnection Queue Reform Impact on RFP

Milestones (may be subject to change):

- Transition Cluster Study cut-off date is January 31, 2020
 - In the event that FERC issues an order on reconsideration in Docket ER20-924-000 before August 10, 2020 that changes the current transition interconnection cluster study cut-off date of January 31, 2020, PacifiCorp will modify the eligibility cut-off date in the 2020AS RFP to align with the new cut-off date.
- The bid due date remains at August 10, 2020.
 - Bid due date will not be extended for the condition above.
 - Any bidders who have an interconnection request after the current cut-off date January 31, 2020 should have their bid prepared in anticipation of filing the bid on the August 10th bid due date, in the event that FERC issues an order on rehearing that changes the cut-off date.
- Bidders selected to the Initial Shortlist will be notified by PacifiCorp October 14, 2020 in order for bidders to notify PacifiCorp Transmission to enter the transition cluster study.
- Transition cluster study results posted to OASIS and bidders notified by PacifiCorp Transmission by April 15, 2021
- Bidders update their bid pricing including interconnection costs from cluster study, late stage serial interconnection studies, or interconnection agreements by April 22, 2021.

Interconnection Queue Reform Impact on RFP (2)

Initial Shortlist Evaluation

- Bidders should be aware of and clearly understand the specific steps, criteria, milestones and schedule of PacifiCorp Transmission queue reform and transition cluster study process.
- Costs for any direct assigned and transmission network upgrades associated with the interconnection of a proposed project to PacifiCorp's transmission system will not be a bid requirement or included in the initial shortlist price evaluation.
- PacifiCorp will review the bidder's interconnection documentation to confirm it aligns with the bid submittal.
- Bidders selected to the initial shortlist who are rejected by PacifiCorp Transmission for not meeting all of PacifiCorp Transmission's non-commercial readiness criteria necessary to be included in the transition cluster study will be removed by PacifiCorp from the initial shortlist and deemed a non-conforming bid.

Final Shortlist Evaluation

- Initial shortlist bidders will update their bid pricing including interconnection costs from cluster study, late stage serial interconnection studies, or interconnection agreements
- Final Shortlist selection may require a restudy by PacifiCorp Transmission depending on selected projects and locations.



QUESTIONS ON INTERCONNECTION OR TRANSITION CLUSTER STUDY PROCESS?