

2021 All-Source RFP for Renewable and Peak Capacity Resources:

Exhibit B. Proposal Requirements Forms **PSE PUGET SOUND ENERGY** 2021 All-Source RFP for Renewable and Peak Capacity Resources • Exhibit B

## PSE DRAFT - 4/01/21

# **Exhibit B. Proposal Requirement Forms**

## Instructions for Bidders

The Proposal Requirement Forms enclosed (Exhibit B) are designed to capture the minimum information necessary for PSE to perform its preliminary review of the RFP proposals. Bidders should plan to provide all relevant information necessary to assess their proposals. PSE may also send additional data requests to bidders on an as-needed basis during the RFP process.

- <sup>1</sup> To be eligible to participate in this RFP, the respondent must fully complete and include an Excel copy of the Exhibit B forms enclosed. A downloadable copy of the forms template can be found at <u>http://www.pse.com/RFP</u>.
- <sup>2</sup> Complete a separate Exhibit B for each proposal submitted. You may submit up to three (3) offers for each proposal.

For the purposes of this RFP, a proposal is defined as a bid for the same resource containing up to three (3) total offer options, one of which is the base offer. In other words, the base offer, plus up to two (2) additional offers constitute the three (3) total offer options contained within a single proposal. Proposals are not mutually exclusive, meaning that more than one proposal can be selected from the same respondent.

For the purposes of this RFP, an offer is defined as an option within a single proposal for the same resource, or combination of co-located resources. The initial resource along with the terms provided is known as the base offer. A respondent may submit up to two (2) additional offers per proposal. Those offers may vary options such as capacity (MW), term, start or end dates, pricing structure, transmission delivery point, some combination of co-located resources, or other proposal elements.

- <sup>3</sup> Respondents may not modify any part of the Exhibit B forms. PSE has designed this Excel file to be a key input to PSE's All-Source RFP proposal database and models. PSE will reject Exhibit B forms, if respondents add, remove or modify tabs in the file. Any changes to the integrity, or failure to complete the required fields, of the Exhibit B file will result in an validation error response and the web platform will not accept the proposal until the error is corrected.
- <sup>4</sup> Respondents who do not fully complete the Exhibit B forms or who return a modified Exhibit B that is no longer functional as an input to our proposal database and models will not meet the minimum requirements of this All-Source RFP. If a proposal does not meet the minimum eligibility requirements of the RFP (see Section 4 of the All-Source RFP) the bidder will be notified and will have three (3) business days to remedy the proposal.
- <sup>5</sup> Bidders are encouraged to follow file naming guidance where provided in Exhibit B to submit additional documentation as required herein or to provide additional detail to support a response. Guidance can typically be found where bidder would indicate whether additional material has been provided.

<sup>6</sup> Have questions about the form? Contact us at <u>AllSourceRFPmailbox@pse.com</u>.

1. Proposal Content Checklist Required for all RFP proposals. (Do not remove tab.)				
Proposal element	Required for	Section	Select response from drop-down list	
Required proposal contents	All proposals	Exhibit B		
Proposal Content Checklist	All proposals	Tab 1 1		
Commercial Details	All proposals	Tab 2a 2		
Offer Details	All proposals	Tab 2b 3		
Facility	All proposals	Tab 3 4		
Variable Energy	Variable energy (also DERs, if applicable)	Tab 3a 5		
Flexible Capacity	Flexible capacity (also DERs, if applicable)	Tab 3b 6		
Energy Storage	Energy storage (also DERs, if applicable)	Tab 3c 7		
DR_DER_System	DRs, DERs, system resources	Tab 3d 8		
Energy Output (8760)	Variable resource proposals	Tab 4 g		
Integration and Transmission	All proposals	Tab 5 10		
Development - Projects Detail	Development or construction project proposals	Tab 6 11		
Ownership - Capital Costs	Proposals including asset sale offers	Tab 7 12		
Ownership - Operating Costs	Proposals including asset sale offers	Tab 8 13		
Bid Certification and contacts	All proposals	Tab 9 14		
Mutual Confidentiality Agreement	All proposals	Exhibit C 15		
Prototype Term Sheet (by offer structure)	All proposals (or specify Schedule C)	Exhibit E, F and G 16		
PSE Customer Consent Letter	Proposals for projects with a pending request for or agreement for PSE transmission or integration	Exhibit J 17		
the second s	Is must be substantially complete consistent with the t provide sufficient information to substantiate a project of	•		
Minimum qualifying criteria for all proposals (as defin			Select response from dropdown list	
Does bidder acknowledge that a bid fee is required, as s		1		
Does the bidder confirm that the respondent currently o	wns or has legally binding rights to devleop or marke	et the project(s)? 2		
Does the bidder acknowledge that PSE disclaims and sh tax incentives or other programs meant to support a rele		ble federal or state		
Does the resource have a nameplate capacity greater th		4		
Has the bidder submitted a request for interconnection? If yes, provide interconnection queue number on Tab 5.		5		
Does this project provide a reasonable and achievable p system on the identified path? See Tab 5	olan and schedule for acquiring long-term, firm transi	mission to PSE's		
Has the respondent verified either through the TSR p provider's OASIS site that the identified path has suf	process or based on information publicly available on the icient available transmission capacity (ATC)?	e transmission		
Is the resource located within PSE's contiguous system	(west of Cascades)?	8		
	source has the ability to secure network integration or fir	rm, point-to-point		
transmission service? If No:			LJ	
Has the bidder specified a transmission pa See All Source RFP, Section 2 and Exhibit H.	th to PSE's system (BPAT.PSEI west of Cascades)?	10		
	he delivery points identified in Section 2 of the All-Sourc bar, unless the project interconnects at one of the delivery points spe	. ,		
PSE's system.				
contract term? See tabs 3 and 6 Gas-fired generation proposals must indicate that firm delivery transportati		12	prage projects must demonstrate the ability to charge and	
discharge as required to meet the need. See Section 2 of the All-Source R	FP for more about standalone storage project requirements.			
For wind or solar resources, does respondent have at le generation and solar irradiance observations?	ast one year of verifiable supporting data with histor	ical wind 13		
If yes, please submit.		14		
Is the project operational, under construction, or in deve	elopment?	15		
All else equal, PSE prefers operational projects/programs first, projects un PSE will not consider conceptual projects in this RFP. Market or energy tra				
If development or construction, please answer the fo	llowing:			
Did respondent include an overall project sche	edule for meeting the commercial operation date?	16		
Does the proposal demonstrate site control fo line, etc.) consistent with guidance in the non-	r the project and any other project-related infrastructure price scoring matrix in Exhibit A?	(e.g., generation tie-		
At a minimum, does the proposal include non-bindin	a letters of intent for the site?			

Has the bidder identified required permits and approvals and their status, and provided a schedule for completion as part of the overall project schedule? See Tab 6	18
Has the bidder started the permitting process?	19
Has the bidder demonstrated progress toward completion of a habitat study?	20
Does the proposal describe the respondent's labor plan (including family-level wages, benefits and opportunities for local workers and businesses)?	21
Will the project be able to deliver to PSE system (west of Cascades) on or before December 31, 2025 for renewable resources, or on or before December 31, 2026 for capacity resources?	22
If not, has bidder proposed a plan to deliver energy and/or capacity starting by the required time?	23
Has the bidder provided a project map, sketch or drawing that meets the minimum qualifying requirements specified in Section 4 of the All-Source RFP? Must identify the geographical boundaries of the overall project and depict all property ownerships within those boundaries.	24
Does the proposal include all associated environmental attributes of the project?	25
"Environmental attributes" means generally credits, benefits, reductions, offsets and other beneficial allowances with respect to fuel, emissions, air quality, or other environmental characteristics, resulting from the use of certain generation resources or other avoidance of emissions.	
Has respondent provided an equity plan consistent with the requirements of RCW 19.405.040(8)? See Tab 2a	26
If yes, bidder may also provide a separately submitted written diversity commitment, policy, or plan in addition to their responses on Tab 2a.	27
Respondent agrees to adhere to all applicable safety laws, guidelines and industry practices.	28
Does the proposal comply with all existing local, state and federal laws, regulations, and executive orders, including environmental laws?	29
(e.g., Wash. state's emissions performance standards, RCW 80.80 and rules set forth in WAC 173-407)	
Respondent has read Sections 4 and 5 of the RFP and acknowledges that the respondent will be responsible for meeting all contractual milestones as scheduled and may be required to pay liquidated damages if they are missed. PSE may also impose credit requirements based on the respondent's credit rating.	30
Respondent agrees that definitive agreements and obligations thereunder shall not be sold, transferred, assigned, or pledged as security or collateral for any obligation, without the prior written permission of PSE.	31
Additional minimum qualifying criteria for ownership proposals (as defined in Section 4)	Select response from dropdown list
In addition to the minimum qualifying criteria required for all proposals (above), PSE has identified the following additional criteria for ownership prop	posals.
Is ownership transfer proposed to occur at or after COD?	1
Respondent has read Section 4 of the All-Source RFP and acknowledges that if selected, PSE will require comprehensive engineering design documents and drawings well in advance of project construction, and that projects will be required to meet all PSE requirements and specifications.	2
Respondent attests that all proposed design engineering firms and project constructors will have proven expertise and experience in projects of similar scope and size.	3
Proposal includes details about the proposed service and maintenance plan for major turbine equipment.	4
Proposal includes descriptions of the manufacturer warranties / guarantees for major equipment and the GSU / step-up transformers	5

2a. Commercial Details Required for all RFP proposals. (Do not remove tab.)			
Respondent Summary			
Respondent seller/owner/developer			
Is the bidder a subsidiary or affiliate of PSE? see RFP Section 4			
If yes, please specify the subsidiary or affiliate			
Examples of affiliates include, but are not limited to: PSE (aka. "self-build"), British Ontario Municipal Employees Retirement System (OMERS), Dutch pension fund manag	Columbia Investment Management Corporation (BCIMC), Alberta Investment Management Corporation (AIMCO), Canada Pension Plan Investment Board (CPPIB),		
Ontario municipal Employees Retirement System (OMERS), Dutch pension fund manag	er Polom, or any or then annuales and subsidiaries.		
Briefly describe any prior experience working with PSE e.g. prior RFPs, prior projects/contracts, existing contracts			
Experience and qualifications Is the respondent the owner of the facility?			
If not, specify owner.			
Describe owner's experience and specify other projects			
completed to date.			
Is the respondent the developer of the facility?			
If not, specify developer.			
If developer is different from owner entity above, describe experience and specify other projects completed to date.			
Please submit a summary CV for all key team members			
(include "Summary CV" in filename of submitted document)			
Legal and financial			
Submit a deal diagram attachment that shows all contractual partie	es, listed by their legal names, and their relationship with the project.		
(include "deal diagram" in filename of submitted document)			
Is the project dependent on another entity? (e.g. fuel supplier or steam ho	st)		
If yes, please describe.			
Does the project have any known legal issues?			
	pations, permitting issues, les pendens, apparent or known property boundary ambiguities, trespasses, or encroachments, and any		
other pertinent legal issues.	auons, permitung issues, les perioens, apparent or known property boundary ambiguities, trespasses, or encloadiments, and any		
In the past five years, has the bidder filed for bankruptcy, been det	termined to be insolvent or been forced into receivership?		
In the past five years, has the bidder or any of its executive officer	s been convicted of a felony?		
Please provide a description of all material litigation to which bidde current status. For purposes of this question, "material" means all	er has been a party at any point in the past five years, including a summary of its resolution or I claims in excess of \$5 million.		

Does the bidder have CPA certified or independently audited financial records for the previous 5 years?	
If yes, please submit previous 2 years of information. (include "Financial Records" in filename of submitted document)	]
Does the bidder have a corporate credit rating by a credit rating agency?	
If yes, please describe.	
If the project is a development project, how does the respondent plan to finance the project?	
Equity Plan	
Lyuty rian	
Please submit an equity plan, if available. In addition, please answer the questions in the following sections.	
(include "Equity Plan" in filename of submitted document)	
Customer Benefits from Transition to Clean Energy	
Will the proposed resource improve the equitable distribution of energy and non-energy benefits to highly impacted communities and vulnerable populations?	
Please provide summary description (1088 characters maximum)	

2b. Offer Details				
Required for all RFP proposals. (Do not remove tab.) Offer options				
To ensure that all proposals receive due consideration and to support our evaluation schedule, PSE will consider up to three (3) offer options per proposal. Please provide your best offer(s) below.				
PSE will consider hybrid offers for generation paired with storage, if the bidder includes pricing for both resources in the table below.				
Number of offers				
	Offer 1	Offer 2	Offer 3	
Offer type				
If other, fill out "Additional Offer Details" text box below				
Resource Type				
If other, describe.				
Ownership Option Included?				
If yes, ownership start year (Year)				
If yes, ownership price (\$)				
Offer capacity (MW at POI)				
Term start (mm/dd/yyyy)				
Term end (mm/dd/yyyy)				
Pricing type				
(PSE preference is fixed price and uses a 7.39% discount rate to compare	different offers)			
If fixed price (PSE preference) Capacity (\$/kW-year)	[]	[]	[]	
Energy (S/MWh)				
If escalating price 1st yr energy price (\$/MWh)				
Annual escalation (%)				
1st year capacity price (\$/kW-year)				
Annual escalation (%)				
If market index premium / discount				
Mid-C spread (\$/MWh)				
Contract heat rate (Btu/kWh)				
Other charges (explain in additional offer details field)				
Additional offer details				
Use the text field below to describe other relevant details about the three offers listed abo may include generation paired with storage. Please do not use this field to provide a men			livery point than offers 2 and 3, or one or more of the offers	
For PPAs, also include bidder's underlying fixed and variable cost of production. All else	equal, PSE prefers a pricing structure that close	ly mirrors the actual cost structure of the project. In this	way, the developer's and PSE's interests with respect to	
scheduling and dispatch, would be aligned. For temporal exchange agreements, include :				
Proposals containing one or more ownership options (e.g., existing resource, turnkey, de payment schedule dates, if included in the total capital cost (Tab 7). PSE may prefer to fi	velopment assets) must also complete Tab 7. I nance the construction.	Project Capital Costs and Tab 8. Operating Cost. Specify	y below any financing costs and the associated estimated	
Does pricing of this project assume the use of tax incentives?				
If pricing is contingent upon receiving tax credits, specify the tax				
credits.		%		
Production tax credit Investment tax credit		%		

Method of qualification for safe harbor and description of the worl	1	
If utilizing safe harbor equipment:	1	
What is the qualifying year of the equipment?		qualifying year (уууу)
When does the safe harbor provision for the equipment exxire? (i.e., date project must be online to receive them)		expiration year (уууу)
If pursuing safe harbor based on start of construction:		
Project start year to qualify for renewable tax credit		qualifying year (уууу)
I arget completion date to quality for the renewable tax credit		completion date (уууу)
Does pricing above include all current and future environmental attributes?		
Confirm that pricing above includes transmission to identified PODs		
defined as listed in Exhibit H	-	
Confirm that pricing above includes balancing and integration charges.		
Confirm that pricing above includes firm hourly scheduling		
Does pricing above include emission costs?		

3. Facility Detail				
	ot remove tab.)			
Resource information summary				
Complete this tab to provide general information about the pr Tab 3a. Variable energy resources - wind, solar, run-of-river hydro, ot Tab 3b. Flexible capacity energy resources Tab 3c. Energy storage resources Tab 3d. DR, DER, market resources	roject. Provide additional project details on the relevant tab(s) listed below. her			
Please ensure that the Tab 4. Energy Output (8760) is also complete DER proponents, please complete all individual resources tabs (3a,3)	d as noted / required. b, and 3c) as needed, as well as Tab 5. Interconnect & Transmission, if applicable.			
General facility information				
Project/Facility name (proposal name)				
Resource location City / Town County State / Province Latitude (decimal) Longitude (decimal)				
Real estate				
<ul> <li>Project size (in acreage)</li> <li>Submit a map showing the project area and neighboring parcels. (include "Project Map" in filename of submitted document)</li> <li>Show anticipated layout of all project facilities including transmission tie lines and natural g met towers for wind resources, and service buildings. Indicate the location of the transmis</li> <li>Does the project have all necessary leases, easements or other owners throughout the life of the project? PSE may request this documentation, if the p</li> <li>Describe the land area controlled relative to project facilities. Submit supporting documentation or additional detail, as needed.</li> </ul>	ship documents to operate the facility			
Provide a general description of project and project site, and describe Submit supporting documentation or additional detail, as needed.	key project components. Additional detail submitted? (include "Project Description" in filename of submitted document)			
Can the project be expanded? If yes, include a description of the potential scope and conditions for addition	nal development at the site.			

Site control		
List percentage of total site (including gen-tie lines) under executed	l land agreements.	%
PSE may request this documentation, if the project advances to the second phase of the		
Describe the type of land agreements (e.g. deeds, leases, easement documents demonstrating that the respondent has or can administ If proposal is selected for Phase 2 (due diligence) evaluation, PSE will request copies of t	ratively gain control of the inten	· · ·
Submit supporting documentation or additional detail, as needed.	Additional detail submitted?	
	(include "Land Agreements" in filena	
Permitting		
Submit a permitting checklist for all permits and authorizations req	uired to build and operate the pr	roject
and, if applicable, the associated generation tie-line. (include "Permit Checklist" in filename of submitted document)		
Include all project permits and any other local, state or federal governme		
generation tie-line. Place special emphasis on key discretionary permits status and agency with jurisdiction for each permit or authorization require	· · · ·	
completion dates.		
Does respondent have all discretionary permits required to begin or	onstruction on the facility?	
If the project requires a generation tie-line to interconnect to the hig the respondent have all discretionary permits required to construct		does
Discuss the current status of applications and proceedings, and the		ain the necessary permits and approvals
Submit supporting documentation or additional detail, as needed.	Additional detail submitted?	
	(include "Permit Status" in filename o	
Is the project located in an area that is ceded land, may have been h	historically used by a Native Ame	erican
	historically used by a Native Ame	erican
	historically used by a Native Ame	erican
Tribe, and/or that may impact tribal interests? If yes, has the Tribe been consulted about the project?		
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I

invironmental siting		
re there any known environmental issues relative to the developm	ent and construction of the project?	
If yes, briefly explain below and describe mitigations to be employed	d Include impacts to air water flora an	d fauna energy and natural resources
environmental health, shoreline use, housing, aesthetics, recreation measures that will be taken to mitigate all impacts of the project.		
Submit supporting documentation or additional detail, as needed.	Additional detail submitted?	
	(include "Environmental Issues" in filename	of submitted document)
lave any environmental studies or assessments been performed re	lated to the site and project?	
lave any environmental studies or assessments been performed re	lated to the site and project?	
If yes, are the studies available, if requested?		
If yes, are the studies available, if requested?	\$\$?	
If yes, are the studies available, if requested? are any additional environmental studies or assessments in progress submit a list of environmental studies completed, in progress and p	\$\$?	
If yes, are the studies available, if requested? are any additional environmental studies or assessments in progress submit a list of environmental studies completed, in progress and p (include "Environmental Studies" in filename of submitted document)	ss? blanned.	
If yes, are the studies available, if requested? are any additional environmental studies or assessments in progress submit a list of environmental studies completed, in progress and p	ss? planned. mental assessments, environmental im	
If yes, are the studies available, if requested? The any additional environmental studies or assessments in progress submit a list of environmental studies completed, in progress and p (include "Environmental Studies" in filename of submitted document) Include wildlife monitoring reports, biological assessments, environmental studies (include wildlife monitoring reports)	ss? planned. mental assessments, environmental im sk mitigations identified at the site, and esponsible for conducting and completin	any other relevant studies.
If yes, are the studies available, if requested? are any additional environmental studies or assessments in progress submit a list of environmental studies completed, in progress and pro- (include "Environmental Studies" in filename of submitted document) Include wildlife monitoring reports, biological assessments, environming reports (air, soil or groundwater), flood control measures or other rise Include in the list the status of each study, the person(s) or firm(s) re- planned or in progress, describe the scope and schedule for completing and the status of each study is a status of each study is a status of each study.	ess? Danned. mental assessments, environmental im sk mitigations identified at the site, and esponsible for conducting and completing etion.	any other relevant studies.
If yes, are the studies available, if requested? are any additional environmental studies or assessments in progress submit a list of environmental studies completed, in progress and p (include "Environmental Studies" in filename of submitted document) Include wildlife monitoring reports, biological assessments, environmentary reports (air, soil or groundwater), flood control measures or other riss Include in the list the status of each study, the person(s) or firm(s) re	ess? Danned. mental assessments, environmental im sk mitigations identified at the site, and esponsible for conducting and completing etion.	any other relevant studies.
If yes, are the studies available, if requested? are any additional environmental studies or assessments in progress submit a list of environmental studies completed, in progress and pro- (include "Environmental Studies" in filename of submitted document) Include wildlife monitoring reports, biological assessments, environni reports (air, soil or groundwater), flood control measures or other rise Include in the list the status of each study, the person(s) or firm(s) re planned or in progress, describe the scope and schedule for completion to be respondent have a plan to engage the community and environments	ss? blanned. mental assessments, environmental im sk mitigations identified at the site, and esponsible for conducting and completi etion. mental stakeholders to support the	any other relevant studies.
If yes, are the studies available, if requested? Are any additional environmental studies or assessments in progress student a list of environmental studies completed, in progress and p (include "Environmental Studies" in filename of submitted document) Include wildlife monitoring reports, biological assessments, environ reports (air, soil or groundwater), flood control measures or other rise Include in the list the status of each study, the person(s) or firm(s) re planned or in progress, describe the scope and schedule for comple topoes respondent have a plan to engage the community and environ roposed project?	ss? blanned. mental assessments, environmental im sk mitigations identified at the site, and esponsible for conducting and completi etion. mental stakeholders to support the	any other relevant studies.

Describe how the underlying facility or contract meets the obligation	ons of Washington's Emissions Performance	Standards (WAC 173-407).
Public engagement		
la reasonations aware of any community or any ironmental stakehold	or concerns accepted with the facility?	
Is respondent aware of any community or environmental stakehold	er concerns associated with the facility?	
Is respondent aware of any community or environmental stakehold Discuss ongoing community relations and environmental stakehold		ort for the project.
Discuss ongoing community relations and environmental stakehole		ort for the project.
	der relations. Include any known public supp	
Discuss ongoing community relations and environmental stakehole	der relations. Include any known public support	
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Discuss ongoing community relations and environmental stakehole	der relations. Include any known public support	

3a . Facility Detail for Variable Energy Resources Not required for non-unit contingent System PPAs. Required for all other RFP proposals. (Do not remove tab.)					
Variable energy resource summary	/				
		Offer 1		Offer 2	Offer 3
Number of resources					
Resource 1					
Resource status					
If operating, remaining useful life.	(vears)				
	(years)				
Resource 2					
Resource status					
If operating, remaining useful life.	(years)				
Resource 3					
Resource status					
If operating, remaining useful life.	(vears)				
in operating, remaining userar inc.	(years)				
Solar				0//	
		Offer 1	-	Offer 2	Offer 3
Describ	be design.				
Solar panels					
Manufacturer					
Plant DC capacity	(MW)				
Annual degradation	%				
Panel orientation (from facing south)	degrees				
Inverter	Ū				
Manufacturer					
<b>Efficiency</b>	0/				
Efficiency Plant AC nameplate capacity	%				
Maximum	(MW)				
Maximum	(MVA)				
Minimum	(MW)				
Ramping control					
Ramp up					
Ramp down	MW/min				
	Describe				
	Describe				
Energy output					
Estimated net annual capacity factor	%				
Nov to Feb capacity factor	%				
Is resource shaped?					
Include	8760 data. (If	more than one resource, use the com	bined outp	out. If shaped, use shaped outpu	ut.)
8760 data source					
Independent resource assessment of	completed				
If so, pleas	se submit.				
(include "Solar Independent Resource Assessment")		mitted document)			
O&M Costs	¢ /A ALA /L				
Variable O&M Costs					
Escalation rate to be used with above	%				
Wind					

	Offer 1	Offer 2	Offer 3	
Describe design.				
Describe any site suitability studies completed.				
Does proposal include avian risk plan?				
Does plant comply with FERC order 661-A?				
Wind turbine				
Manufacturer				
Model				
Describe any expected upgrades / revisions in				
proposed model from current / historical models.				
Describe certifier and date of third-party certification				
of proposed turbine model(s).				
Hub height (ft)	[]		[]	
Number of turbines				
Plant AC nameplate capacity		· · · · · · · · · · · · · · · · · · ·		
Maximum <i>(MW)</i>				
Maximum <i>(MVA)</i>				
Minimum <i>(MW)</i>				
Ramping control				
Ramp up MW/min				
Ramp down MW/min				
Describe				
Energy output				
Estimated net annual capacity factor %				
Nov to Feb capacity factor %	· · · · · · · · · · · · · · · · · · ·			
Is resource shaped?				
Include 8760 data. (	If more than one resource, use the com	bined output. If shaped, use shaped out	put.)	
8760 data source				
Independent resource assessment completed				
If so, please submit.	[]			
(include "Wind Independent Resource Assessment" in filename of s	ubmitted document)		<u> </u>	
O&M costs				
Variable O&M costs \$/MWh				
Escalation rate to be used with above %				
Run-of-river hydro				
	Offer 1	Offer 2	Offer 3	
Describe design.				
Facility				
Head (ft)				
Number of units				
Plant AC nameplate capacity				

	Maximum	(MW)			
	Maximum	(MVA)			
	Minimum	(MW)			
Ramping control		()	ļJ		
	Ramp up	MW/min			
	Ramp down	MW/min			
	Describe				
Energy output					
Estimated net annual ca	apacity factor	%			
Nov to Feb ca	apacity factor	%			
ls resou	urce shaped?				
	Include	8760 data. (If	more than one resource, use the com	pined output. If shaped, use shaped outp	put.)
	8760 d	ata source			
	0/00 4				
Independent resource	assessment	completed			
	lf so, plea	se submit.			
(include "Hydro Independent Resou	rce Assessment	in filename of sub	mitted document)	<u> </u>	·
Operations Force	d outage rate	%	[]	]	[]
	time to repair			 	
O&M costs	unio to ropun		IJ		
List variable O&M c	osts	\$/MWh			
List escalation rate to be use	ed with above	%			
Annual planned main					
Expected average of	days per year				I
Expected	d timing mont	h / season			
Estimated	d annual unit a	availability			
Estimated	d annual unit a	availability			
	d annual unit a	availability	Offer 1	Offer 2	Offer 3
	d annual unit a	availability	Offer 1	Offer 2	Offer 3
		availability	Offer 1	Offer 2	Offer 3
			Offer 1	Offer 2	Offer 3
Other	Descril		Offer 1	Offer 2	Offer 3
	Descril	be design.	Offer 1	Offer 2	Offer 3
Other	Descril	be design. (MW)	Offer 1	Offer 2	Offer 3
Other	Descril <b>apacity</b> Maximum	be design. (MW) (MVA)	Offer 1	Offer 2	Offer 3
Other Plant AC nameplate c	Descril <b>apacity</b> Maximum Maximum	be design. (MW) (MVA)	Offer 1	Offer 2	Offer 3
Other	Descril <b>apacity</b> Maximum Maximum	be design. (MW) (MVA) (MW)	Offer 1	Offer 2	Offer 3
Other Plant AC nameplate c	Descril <b>apacity</b> Maximum Maximum Minimum	be design. (MW) (MVA) (MW) MW/min	Offer 1	Offer 2	Offer 3
Other Plant AC nameplate c	Descril <b>apacity</b> Maximum Maximum Minimum Ramp up	be design. (MW) (MVA) (MW) MW/min MW/min	Offer 1	Offer 2	Offer 3
Other Plant AC nameplate c	Descril <b>apacity</b> Maximum Maximum Minimum Ramp up	be design. (MW) (MVA) (MW) MW/min	Offer 1	Offer 2	Offer 3
Other Plant AC nameplate c Ramping control	Descril <b>apacity</b> Maximum Maximum Minimum Ramp up	be design. (MW) (MVA) (MW) MW/min MW/min	Offer 1	Offer 2	Offer 3
Other Plant AC nameplate c	Descril <b>apacity</b> Maximum Maximum Minimum Ramp up Ramp down	be design. (MW) (MVA) (MW) MW/min MW/min Describe	Offer 1	Offer 2	Offer 3
Other Plant AC nameplate c Ramping control Energy output	Descril apacity Maximum Maximum Minimum Ramp up Ramp down	be design. (MW) (MVA) (MW) MW/min MW/min Describe	Offer 1	Offer 2	Offer 3
Other Plant AC nameplate c Ramping control Energy output Estimated net annual ca Nov to Feb ca	Descril apacity Maximum Maximum Minimum Ramp up Ramp down	be design. (MW) (MVA) (MW) MW/min MW/min Describe % %	Offer 1	Offer 2	Offer 3
Other Plant AC nameplate c Ramping control Energy output Estimated net annual ca Nov to Feb ca	Descril apacity Maximum Maximum Minimum Ramp up Ramp down apacity factor apacity factor apacity factor	be design. (MW) (MVA) (MW) MW/min MW/min Describe % %		Offer 2	
Other Plant AC nameplate c Ramping control Energy output Estimated net annual ca Nov to Feb ca	Descril apacity Maximum Maximum Minimum Ramp up Ramp down apacity factor apacity factor apacity factor urce shaped? Include	be design. (MW) (MVA) (MW/ MW/min MW/min Describe % % %			
Other Plant AC nameplate c Ramping control Energy output Estimated net annual ca Nov to Feb ca	Descril apacity Maximum Maximum Minimum Ramp up Ramp down apacity factor apacity factor apacity factor urce shaped? Include	be design. (MW) (MVA) (MW) MW/min MW/min Describe % %			
Other Plant AC nameplate c Ramping control Energy output Estimated net annual ca Nov to Feb ca	Descril apacity Maximum Maximum Minimum Ramp up Ramp down apacity factor apacity factor apacity factor urce shaped? Include 8760 da	be design. (MW) (MVA) (MW) MW/min MW/min Describe % % 8760 data. (If ata source			
Other Plant AC nameplate c Ramping control Energy output Estimated net annual ca Nov to Feb ca Is resou	Descril apacity Maximum Maximum Minimum Ramp up Ramp down apacity factor apacity factor apacity factor urce shaped? Include 8760 da assessment o	be design. (MW) (MVA) (MW) MW/min MW/min Describe % % 8760 data. (If ata source			
Other Plant AC nameplate c Ramping control Energy output Estimated net annual ca Nov to Feb ca Is resou	Descril apacity Maximum Maximum Minimum Ramp up Ramp down apacity factor apacity factor apacity factor apacity factor apacity factor apacity factor apacity factor apacity factor apacity factor afactor apacity factor apacity factor	be design. (MW) (MVA) (MW/ MW/min MW/min Describe % % 8760 data. (If ata source completed se submit.			

List variable O&M costs.	\$/MWh			
List escalation rate to be used with above.	%	ĺ		

	Not required for						<b>Resources</b> FP proposals. (Do no	t remove tab )	
Variable energy	resource summary		igeni oysi		acquireu 10	i ali otnei Ki		(Tentove tab.)	
				Offer 1			Offer 2		Offer 3
	Resource type								
	Resource status								
If operating, provide re		() (2 2 2 2 2							
	emaining useful life.	(years)							
Capacity									
Plant AC Name ISO cond	ditions								
	Maximum capacity	(MW)							
	Minimum capacity	(MW)							
Winter (0 deg F, 1	000 ft elevation) Maximum capacity	(MW)							
	Minimum capacity	(MW)							
Summer (90 deg F,		. ,							
	Maximum capacity	(MW)							
	Minimum capacity	(MW)							
Capacity	limited by permits?								
	If you	s, describe.							
	ii yes	s, describe.							
No	v to Feb availability	%							
Capability						-			
Facility start-up	time		Hot	Warm	Cold	Hot	Warm Cold	Hot	Warm Cold
	Start-up cost	(\$)							
	Start-up fuel	(MMBtu)							
	irt-up cooling state / istered cooling time	(hours)							
	Start-up ramp rate								
Applied when	running the resource from	zero to min capacity	'						
Ten-r	ninute start capable								
	Maximum starts	(per day)							
	Describe cycling	limitations.							
Dama antas									
Ramp rates	Ramp up	MW/min							
	Ramp down	MW/min							
		Describe							
			Load		Average	Load	Average	Load	Average
Heat rate			point		heat rate	point	heat rate	point	heat rate
			(MW)		(BTU/	(MW)	(BTU/	(MW)	(BTU/
	Load point 1		()	וו	kWh)	()	kWh)	()	kWh)
	Load point 2								
	Load point 2								
	Load point 3			]					
	Load point 5								
	Load point 6								
							4 L		

Load point 7				
Load point 8				
Load point 9				
Load point 10				
Load point 11				
Operations				
Forced outage rate	%			
Mean time to repair	(hours)			
Annual planned maintenance Expected average da	iys per year			
Expected timing mo	onth/season			
Estimated annual unit	t availability			
Costs	, aranabing			
Variable O&M costs	\$/MWh			
Fixed O&M if not included in price	\$/kW-yr			
Escalation rate to be used with above	%			
Fuel				
Fuel requirements				
Hourly fuel requirements At rated capacity		·		
With duct firing, if applicable	lb/MMBtu			
Daily fuel requirements At rated capacity	lb/MMBtu	[]	[]	
With duct firing, if applicable	lb/MMBtu			
		Fuel source	Fuel source	Fuel source
Average emissions rate data		Primary Secondary	Primary Secondary	Primary Secondary
-	lb/MMBtu	Primary Secondary	Primary Secondary	Primary Secondary
CO2	lb/MMBtu lb/MMBtu	Primary Secondary	Primary Secondary	Primary Secondary
CO2 NOX		Primary Secondary	Primary Secondary	Primary     Secondary
CO2 NOX	lb/MMBtu lb/MMBtu	Primary Secondary	Primary     Secondary	Primary     Secondary
CO2 NOX SOX	lb/MMBtu lb/MMBtu	Primary         Secondary	Primary         Secondary	Primary     Secondary
CO2 NOx SOx Particulate matter Provide additional detail as needed.	lb/MMBtu lb/MMBtu	Primary         Secondary	Primary         Secondary	Primary     Secondary       Image: Secondary     Image: Secondary       Image: Secondary
CO2 NOx SOx Particulate matter Provide additional detail as needed. Fuel supply Fuel source	lb/MMBtu lb/MMBtu	Primary         Secondary	Primary Secondary	Primary     Secondary       Image: Secondary     Image: Secondary       Image: Secondary
CO2 NOx SOx Particulate matter Provide additional detail as needed. Fuel supply <u>Fuel source</u> Primary fuel	lb/MMBtu lb/MMBtu	Primary       Secondary	Primary       Secondary	Primary       Secondary
CO2 NOx SOx Particulate matter Provide additional detail as needed. Fuel supply Fuel source	lb/MMBtu lb/MMBtu	Primary       Secondary	Primary       Secondary	Primary       Secondary
CO2 NOx SOx Particulate matter Provide additional detail as needed. Fuel supply <u>Fuel source</u> Primary fuel	lb/MMBtu lb/MMBtu	Primary       Secondary	Primary       Secondary	Primary       Secondary
CO2 NOx SOx Particulate matter Provide additional detail as needed. Fuel supply <u>Fuel source</u> Primary fuel Secondary fuel, if applicable	lb/MMBtu lb/MMBtu	Primary       Secondary	Primary       Secondary	Primary       Secondary
CO2 NOx SOx Particulate matter Provide additional detail as needed. Fuel supply Fuel source Primary fuel Secondary fuel, if applicable Storage on site?	lb/MMBtu lb/MMBtu lb/MMBtu	Primary       Secondary	Primary       Secondary	Primary       Secondary
CO2 NOx SOx Particulate matter Provide additional detail as needed. Fuel supply Fuel source Primary fuel Secondary fuel, if applicable Storage on site? If yes, for how long at rated capacity?	lb/MMBtu lb/MMBtu lb/MMBtu	Primary       Secondary	Primary       Secondary	Primary       Secondary
CO2 NOx SOx Particulate matter Provide additional detail as needed. Fuel supply <u>Fuel source</u> Primary fuel Secondary fuel, if applicable Storage on site? If yes, for how long at rated capacity? Has fuel supply been secured?	lb/MMBtu lb/MMBtu lb/MMBtu	Primary       Secondary	Primary       Secondary	
CO2 NOx SOX Particulate matter Provide additional detail as needed. Fuel supply <u>Fuel source</u> Primary fuel Secondary fuel, if applicable Storage on site? If yes, for how long at rated capacity? Has fuel supply been secured? If no, please describe. <u>Fuel transportation</u>	lb/MMBtu lb/MMBtu lb/MMBtu	Primary       Secondary		
CO2 NOx SOX Particulate matter Provide additional detail as needed. Fuel supply <u>Fuel source</u> Primary fuel Secondary fuel, if applicable Storage on site? If yes, for how long at rated capacity? Has fuel supply been secured? If no, please describe. <u>Fuel transportation</u> Is fuel transportation included in price?	lb/MMBtu lb/MMBtu lb/MMBtu	Primary       Secondary	Primary       Secondary	Primary       Secondary
CO2 NOx SOX Particulate matter Provide additional detail as needed. Fuel supply <u>Fuel source</u> Primary fuel Secondary fuel, if applicable Storage on site? If yes, for how long at rated capacity? Has fuel supply been secured? If no, please describe. <u>Fuel transportation</u> Is fuel transportation included in price? If not, describe.	lb/MMBtu lb/MMBtu lb/MMBtu	Primary       Secondary	Primary       Secondary	
CO2 NOx SOx Particulate matter Provide additional detail as needed. Fuel supply <u>Fuel source</u> Primary fuel Secondary fuel, if applicable Storage on site? If yes, for how long at rated capacity? Has fuel supply been secured? If no, please describe. <u>Fuel transportation</u> Is fuel transportation included in price? If not, describe. Has fuel transportation been secured?	lb/MMBtu lb/MMBtu lb/MMBtu	Primary       Secondary		
CO2 NOx SOX Particulate matter Provide additional detail as needed. Fuel supply <u>Fuel source</u> Primary fuel Secondary fuel, if applicable Storage on site? If yes, for how long at rated capacity? Has fuel supply been secured? If no, please describe. <u>Fuel transportation</u> Is fuel transportation included in price? If not, describe. Has fuel transportation been secured? Describe fuel transportation method.	Ib/MMBtu Ib/MMBtu Ib/MMBtu (days)			

		Detail for Energy Storage System PPAs. Required for all other	e <b>Resources</b> : RFP proposals. (Do not remove tab.)	
Energy storage resource summary		Offer 1	Offer 2	Offer 3
Resource type				
If other, describe.				
Resource status				
If operating, provide remaining useful life.	(years)			
Source for charging storage system				
If offsite, describe.				
System design				
Storage medium Technology				[]
Manufacturer				
State of charge units				
Max state of charge				
Min state of charge				
Capacity (power / energy) degradation impact on cycles				
Define cycles and any additional information on states of				
charge assumptions.				
Inverter (if applicable)				
Manufacturer				
Model				
Integration				
Name of Integrator				
Describe relevant experience of integrator.				
Cooling System				
Provide summary description of proposed cooling system.				
Fire Protection System System addresses fire and explosive gas detection,				
prevention, and mitigation?				
Provide summary description of fire protection system.				
Capacity				
Plant AC nameplate capacity				
Maximum discharge power	(MW)			
Maximum discharge power	(MVA)			
Minimum discharge power	(MW)			
Maximum charge power	(MW)			
Maximum charge power	(MVA)			
Minimum charge power	(MW)			
Power capacity degradation	% per cycles			
Energy maximum	(MWh)			

	Energy minimum	(MWh)			
	Energy capacity degradation	% per cycles			
	Augmentation required				
	Describe augmentation schedule				
Energy output					
	Estimated net annual capacity factor	%, year 1			
	Nov to Feb capacity factor	%, year 1			
	Estimated net average energy output				
	Nov to Feb average energy output				
Control and ope	erations				
Ramping contro		N/\//			
	Ramp up	MW/min			
	Ramp down	MW/min			
	Describe				
	2000.120				
Charging / Disc					
	Charge efficiency	%			
	Discharge efficiency	%			
	Total Round Trip efficiency	%			
Hybrid plant co	ntrol				
	bes owner control the energy storage?				
Does the plant	t need a schedule for state of charge?				
Is the resource inter	ided to time-shift for peak capacity?				
	If yes, describe control.				
Can the energy	storage provide operational flexibility?				
If ye	s, describe control, impact of lifespan.				
Can the facility be cur	tailed via PSE's Energy Management.				
Operations	Forced outage rate	%			
	Mean time to repair	(hours)			
O&M costs	Variable O&M costs	\$/MWh			
	Fixed O&M	\$/kW-yr			
Annual planned		included in price			
	Expected average days per year				
	Expected timing month/season				
	<b>F</b> . <b>M</b>				
Querra his Querra	Estimated annual unit availability				
Ownership Opt	ions e ownership options please include t	he following:			
		_			
Expected life s	pan for energy storage system	(years)			
	ditional augmentation and recycling of es that are included at end of life span				
Describe dosign ongi	neering firms and project constructors				
	experience in projects of similar scope				
	and size				
Proposals should	d include documentation including syste	em and equipmer	nt compliance with appropriate govern	ning agencies and standards including	Federal Energy Regulatory

Proposals should include documentation including system and equipment compliance with appropriate governing agencies and standards including Federal Energy Regulatory Commission ("FERC"), North American Electric Reliability Corporation ("NERC"), Western Electric Coordinating Council ("WECC"), Underwriters Laboratories ("UL"), Institute of Electrical and Electronics Engineers ("IEEE"), National Electrical Code ("NEC"), Industry Foundation Classes ("IFC"), etc., as applicable

Compliance documentation submitted (include "Compliance Documentation" in filename of submitted document)	
provide one-line diagrams, three-line schematics, communication plans an	ing design documents and drawings well in advance of project construction. If available, bidders should also ad protocols used, and a list of tags and alarms used in the battery management system ("BMS"). If uring the evaluation or negotiation process. Projects will be required to meet all PSE requirements and
Engineering documentation submitted (include "Engineering Documentation" in filename of submitted document)	

3d . Facility Detail fo			
Not required for non-unit contingent System PI Demand response, distributed energy resources, or system		er RFP proposals. (Do not rei	move tab.)
	Offer 1	Offer 2	Offer 3
Resource 1			
Resource 2			
Resource 3			
Demand response ("DR")			
The Base DR offer (Offer 1) can be up to a maximum of 5 years (Offer 2 and Offer 3), which may extend through year 2032.	in duration (ending year 2	027). Bidder may also include	e two alternate offers
System design Program specifics			
Describe design.			
Types of loads			
i ypes of loads			
Types of customers			
Marketing plan	ļI		
Submit detailed marketing plan if available.			
(include "DR Marketing Plan" in filename of submitted document)			
Provide summary marketing plan / demonstrate ability to enroll customers.			
Measurement & evaluation plan			
Submit detailed measurement and evaluation plan if available.			
(include "DR Measure and Eval Plan" in filename of submitted document)			
Provide summary of measurement and evaluation plan, consistent with Exhibit K.			
Integration			
Describe design.			
Describe interface.			
Describe communications protocols.			
Capacity	Time ahead	Time ahead	Time ahead
Winter power capacity by year (AC)	Day 1 Hour	Day 1 Hour	Day 1 Hour
assumed to be 30 deg F 2023 (MW)			
2024 (MW)			
2025 (MW)			
2026 (MW)			
2027 (MW) 2028 (MW)			
2028 (MW) 2029 (MW)			
2029 (NWV) 2030 (MW)			
2031 (MW)			
2032 (MW)			

Summer power capacity by year (AC)				
assumed to be 85 deg F	<i>(</i> <b>- - - -</b> )	r	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
2023	(MW)			
2024	(MW)			
2025 2026	(MW) (MW)			
2020	(MW)			
2027	(MW)			
2020	(MW)			
2030	(MW)			
2031	(MW)			
2032	(MW)			
If additional availability can be provided				
Pricing				
Capacity charge 2023	(¢///)// // ()	l1	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
	(\$/kW-year)			
2024	(\$/kW-year)			
2025	(\$/kW-year)			
2026	(\$/kW-year)			
2027	(\$/kW-year)			
2028	(\$/kW-year)			
2029	(\$/kW-year)			
2030	(\$/kW-year)			
2031	(\$/kW-year)			
2032	(\$/kW-year)			
Customer benefit sharing				
Offer include cu	ustomer benefit sharing?			
	If you describe			
	If yes, describe.			
Per participant annual in	acentive			
2023	(\$/participant)			
2024	(\$/participant)			
2025	(\$/participant)			
2026				
	(\$/participant)			
2027	(\$/participant)			
2028	(\$/participant)			
2029	(\$/participant)			
2030	(\$/participant)			
2031	(\$/participant)			
2032	(\$/participant)			
Normalized incentive based on de	elivered capacity			
2023	(\$/kW-yr)			
2024	(\$/kW-yr)			
2025	(\$/kW-yr)			
2026	(\$/kW-yr)			
2027	(\$/kW-yr)			
2028	(\$/kW-yr)			
2029	(\$/kW-yr)			
2030	(\$/kW-yr)			
2031	(\$/kW-yr)			
2032	(\$/kW-yr)			
Total costs				

to include capacity charges, customer	incentives			
and any other pricing elemen	ts			
2023	(\$k's)			
2024	(\$k's)			
2025	(\$k's)			
2026	(\$k's)			
2027	(\$k's)			
2028	(\$k's)			
2029	(\$k's)			
2030	(\$k's)			
2031	(\$k's)			
2032	(\$k's)			
Costs breakdown				
Program startup costs	% of total			
Software licensing	% of total			
Marketing / Recruitment	% of total			
Equipment capital	% of total			
Equipment installation	% of total			
Equipment maintenance	% of total			
Participant incentives	% of total			
Customer service	% of total			
Tracking and reporting, M&V	% of total			
Other (please specify)	% of total			
Total	% of total			
Distributed energy resource ("DER"	1			
Program specifics	1			
Describe design				
Types of customers/Site				
Assessment and acquisition plan				
Submit assessment and acquisition p				
(include "DER Assessment and Acauisition Plan" in file	ename of submitted document)			
Provide summary of assessment and	acquisition plan.			
Integration				
Describe design.				
, i i i i i i i i i i i i i i i i i i i				
Describe interface.				
Describe communications protocols.				
Note: Use facilit	ty tabs (3a,3b,3c) for the specifi	c resources used for the DER, in a	addition to the main required tabs.	
Pricing				
Describe pricing.				
	¢//////			
Provide any energy charges.	\$/kWh			
Provide any capacity charges.	\$/kW			
Customer benefit sharing				
	omer benefit sharing?			
14	yes, please describe.			
System Resources				

Describe design.				
<u>System</u>				
Specified?				
If yes, describe.				
Plant AC capacity				_
Maximum	(MW)			
Maximum	(MVA)			
Minimum	(MW)			
	()			
Dispatchable?				
If yes				
Ramping control				
Ramp up	%			
Ramp down	%			
Nump down	70			
Describe				
Describe				
Evente		J		L
<u>Events</u> Number of events - winter	integer	[]		
duration	(hrs)			
Number of events - summer	integer			
duration	(hrs)			
Description of measu	rement and verification			
Energy output	0/	·	·	· · · · · · · · · · · · · · · · · · ·
Estimated net annual capacity factor	%, year 1			
Nov to Feb capacity factor	%, year 1			
	*Include 8760 data			
8760 data source				
	ant completed			
Independent resource assessme	ent completed			
If so, please submit				
(include "Market Independent Resource Assessment	t" in filename of submitted docum	nent)		

4. Variable Energy Output Profile for Intermittent Resources (8760) Not required for baseload or dispatchable resources. Required for all other RFP resources. (Do not remove tab.)				
	Offer 1	Offer 2	Offer 3	
Project capacity at POI (MW)				
Project annual output at POI (MWh)				
* Note the 8760 data should be based on h * Offers that include multiple resources (wir			nit the combined 8760 output.	
	Offer 1 Offer 2 Offer 3			
Hour ending	POI MW	POI MW	POI MW	
1				
2				
3 4				
4 5		1		
6				
7		1		
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
<u>19</u> 20				
20				
21				
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<u>32</u> 33				
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37 38				
38 39				
38 39 40				
38 39 40 41				
38 39 40 41 42				
38 39 40 41 42 43				
38 39 40 41 42 43 44				
38 39 40 41 42 43 43 44 45				
$     38 \\     39 \\     40 \\     41 \\     42 \\     43 \\     44 \\     45 \\     46 $				
$ \begin{array}{r}     38 \\     39 \\     40 \\     41 \\     42 \\     43 \\     44 \\     45 \\     46 \\     47 \\ \end{array} $				
$     38 \\     39 \\     40 \\     41 \\     42 \\     43 \\     44 \\     45 \\     46 $				

			nection and Transmiss RFP proposals. (Do not remov		
Delivery pa	ath	*			
If project is	a DR or DER, please use the f	ollowing text box to clarify	any information with respect	to interconnection and transi	nission.
For all othe	rs (non-DER), please specify t	he information below.			
Point	of interconnection ("POI")				
Point	of receipt ("POR") if different from	the POI			
Point	of delivery ("POD")				
Interconne	ection				
Interconnec	ction provider				
Type of inte	erconnection request				
Has interco	nnection been <u>secured</u> for the	project?			
	nnection been <u>requested</u> for t	he project?			
	provide LGIA queue number.				
	A signing or expected signing				
State any n	eeded interconnection upgrad	les and associated costs.			
Expected c	ompletion date for interconne	ction upgrades.			
List in table	below all available or in prog	ress interconnection studie	es and status.		
	Study type	Study number	Status	Received/ Estimated completion date	Study performed by
	Does the project req	uire construction of a tie-li	ne to the POI?		
	If yes:				
		How long is the tie-line?			
Attach a ma	p showing the tie-line route re			nt, design and construction w	ork as part of the attached
Describe th	pject development schedule de e location of the tie-line relativ	ve to the project and the PC	)I. Include the development/co	onstruction status of the tie-li	ne. Describe relevant permitting and
and rights matt	ers associated with the tie-line on Tab 6.	Development Projects Detail IN INE :	and control and permitting sections.		
Are there a	ny other construction plans fo	r any interconnection facili	ties?		
lf yes,	describe below.				

Transmission :	servi	се
----------------	-------	----

#### Transmission provider(s).

Does the project request to use PSE's transmission as identified in Exhibit H?

Is project interconnected on PSE System, west of Cascades?

Has transmission been secured for the project?

If yes, what type of transmission service has been secured?

Has transmission been requested for the project?

If yes, what type of transmission service has been requested?

If yes, provide TSR queue number.

When does respondent expect to have long-term firm transmission for the project?

If no, complete table below as it pertains to each wheel required to deliver energy to PSE's contiguous system (west of Cascades).

Number of transmission wheels in developer transmission plan.			
	C	Complete a column below for each whee	I.
Transmission wheels specified above	1	2	3
Transmission provider for each wheel			
POR			
POD			
Sink			
Cost for each wheel (\$/kW-month)			
Has transmission been secured for this wheel?			
Has transmission been requested for this wheel?			
If yes, provide TSR queue number.			
When does respondent expect to have long-term firm transmission for the project?			

List in table below all available or in progress transmission studies and status.

Study type	Study number	Status	Received/ Estimated completion date	Study performed by

		<u> </u>	LT	<u> </u> 	د۲ ۲
	thing else PSE needs to know a mover the term of the proposal		lan? For example, are there a	ny alternate solution(s) to firr	n the delivery of energy to
i					
Energy Sto	orage - load request				
Does energ	y storage project require a sepa	arate transmission service	to charge the device?		
0000 000 000	y storage project - q		to ond go the define		
lf	yes, please describe transmission	n status to required for char	ging.		
Ancillary se	ervices				
Project bala	incing authority				
-	s outside PSE's balancing autho	ority area (BAA), provide ti	he following:		
I OI PIOJESS		Jilly alou (Broy, procession	le ionowing.		
			-		
	Servic		Party res	ponsible	,
	Servic Operating reserves		-	ponsible	Į
		:e	-	ponsible	I [
	Operating reserves	:e	-	ponsible	[ [
	Operating reserves Resource integration (interr	:e	-	ponsible	
	Operating reserves Resource integration (intern Scheduling	:e	-	ponsible	     
	Operating reserves Resource integration (interr Scheduling Regulating reserves	mittent resources)	-	ponsible	
	Operating reserves Resource integration (intern Scheduling Regulating reserves Generation imbalance	mittent resources)	-	ponsible	
PURPA qua	Operating reserves Resource integration (intern Scheduling Regulating reserves Generation imbalance Other required ancillary ser	mittent resources)	-	ponsible	
ls responde	Operating reserves         Resource integration (intern         Scheduling         Regulating reserves         Generation imbalance         Other required ancillary ser         Specify other         alifying facilities         nt proposing a QF resource loc	rvice(s)	Party res	ponsible	
ls responde BPA in Secti	Operating reserves Resource integration (interr Scheduling Regulating reserves Generation imbalance Other required ancillary ser Specify other alifying facilities nt proposing a QF resource loc ion 3 of the Pacific Northwest E	rvice(s)	Party res	ponsible	
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ls responder BPA in Secti (94 Stat. 269	Operating reserves         Resource integration (intern         Scheduling         Regulating reserves         Generation imbalance         Other required ancillary ser         Specify other         alifying facilities         nt proposing a QF resource loction 3 of the Pacific Northwest E         08; 16 U.S.C. Sec 839a)?	rvice(s)	Party res		integration services.
Is responde BPA in Secti (94 Stat. 269 If yes, c	Operating reserves         Resource integration (intern         Scheduling         Regulating reserves         Generation imbalance         Other required ancillary ser         Specify other         alifying facilities         nt proposing a QF resource loction 3 of the Pacific Northwest E         08; 16 U.S.C. Sec 839a)?	rvice(s) Cated outside the Pacific N Cated outside the Pac	Party res		r integration services.

		-	pment - Details	
Required for develop Schedule	oment and construction p	rojects. Not required	for operating projects or non-unit	-contingent offers. (Do not remove tab.)
Submit a detailed project d through the project's propo			om the initiation of development	activities
Include the most accurate es	timates available for each	of the following:		
Project development	Construction I	nclude any additional	timelines applicable to the project t	hat will demonstrate its status and plans
Permitting	Startup I	nclude any actions ta	ken to ensure the schedule is met (	e.g., long-lead equipment orders)
Interconnection	Testing	nclude any potential o	opportunities to improve the schedu	le
Engineering	Commissioning			
Construction				
Have any arrangements or (e.g., contracts, LOIs, MOUs)	commitments been mad	le for the construction	on of the project?	
		• • •	· · · ·	arrangements or commitments for project
Submit supporting documentatio	on or additional detail, as neede	d to fully respond.	Additional detail submitted?	
			(include "Development contractual structure	" in filename of submitted document)
Describe any arrangements	s or commitments that h	nave been made for (	either safe harbored and/or major	equipment.
Submit supporting documentatio			Additional detail submitted?	
			(include "Development safe harbor and main	
Submit information about t			(include Development sale harbor and may	or equipment" in filename of submitted document)
this phase.	the organization and ind		for project management during	or equipment" in tilename of submitted document)
(include "Development project ma	-			or equipment" in filename of submitted document)
(include "Development project main Has the respondent establic	nagement" in filename of submi			or equipment" in tilename of submitted document)
	nagement" in filename of submi			or equipment" in filename of submitted document)
Has the respondent establi	anagement" in filename of submi			cr equipment" in tilename of submitted document)
Has the respondent establi	- anagement" in filename of submi ished a labor plan?			cr equipment" in tilename of submitted document)
Has the respondent establi If yes, does it include: High labor standard:	- anagement" in filename of submi ished a labor plan?			crequipment" in tilename of submitted document)
Has the respondent establi If yes, does it include: High labor standard: Family-level wages? Benefits?	- anagement" in filename of submi ished a labor plan?	itted document)		
Has the respondent establing If yes, does it include: High labor standards Family-level wages? Benefits? Opportunities for loc Will the project utilize a Pro- construction activities asso	unagement" in filename of submi ished a labor plan? Is? ? cal workers and businesse oject Labor Agreement c ociated with the constru	itted document) es? or Community Workf iction of the project?	for project management during force Agreement for major	
Has the respondent establi If yes, does it include: High labor standard: Family-level wages? Benefits? Opportunities for loc Will the project utilize a Pro construction activities asso Does the respondent ag Agreement or Commun	nagement" in filename of submi ished a labor plan? Is? Cal workers and businesse oject Labor Agreement o ociated with the constru gree to make commerciall nity Workforce Agreement	itted document) es? or Community Workf iction of the project? ly reasonable efforts to is eligible to be certifi	for project management during force Agreement for major	

If the project is a renewable project that qualifies for a one and two-tenths (1.2) multiplier of the environmental attributes generated from the project, will the additional renewable attributes resulting from the use of apprenticeship labor accrue to PSE throughout the term of the PPA at the offer price specified in the proposal?	
Briefly describe the labor plan.	
If construction is completed, are there any open warranty issues?	
If yes, submit a list of open warranty issues.	
(include "Development warranty issues" in filename of submitted document)	

	Are costs in	n nominal do	llars or real?			4	Assumed esc	calation rate?	?																								
А	B D	E	F G	Н	I	J	K	L	M I	N C	D P	Q	R	S	Т	U	V	W	X	Y 2	Z AA	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	A
Project buildout capital costs (as applicable)	2025	2026	<u>2027 2</u>	028 2	2030	2031	2032	2033	2034	2035	2036 2	2037 <u>2</u>	038 20	39 2040	2041	2042	2043	2044	2045	2046	2047 2	048 20	49 205	<u>i0 2051</u>	2052	2053	2054	2055	2056	2057	2058	2059	Additio
Land acquisition	\$																																
Engineering	\$																																
Permitting	\$																																
Development fees	\$																																
Other development costs	\$																																
Generation facility	\$																																
O&M building	\$																																
Project substation	\$																																
Generation equipment:																																	
Wind turbines	\$																																
Solar array(s)	\$																																
Combustion turbine / generator	\$																																
Batteries	\$																																
Power control systems / inverters	\$																																
Steam turbine	\$																																
Spare parts	\$																																
Pipeline build-out	\$																																
Environmental management / containment	\$																																
Remaining balance of plant construction	\$																																
Other (taxes, insurance, etc.) Contingency	<b>Э</b>																																
Contingency Initial working capital	ф Ф																																
Start up power credit: sales of test power	э с																																
Start up power credit, sales of test power	φ																																
Ongoing capital costs during project operation (as applicable)	2025	2026	<u>2027</u> <u>2</u>	028 2	<u>2030</u>	2031	2032	2033	2034	2035	2036 2	<u>2037</u> <u>2</u>	2038 20	<u>39</u> <u>2040</u>	2041	2042	2043	2044	2045	2046	2047 2	<u>048</u> <u>20</u>	<u>49</u> <u>205</u>	<u>2051</u>	2052	2053	2054	2055	2056	2057	2058	2059	Addition
Incremental capital needs (please list)	\$																																
Major maintenance	\$																																
Combustion inspection	\$																																
Hot gas path	\$																																
Turbine refurbishments	\$																																
Plant upgrades	S																																

		Are costs in	n nominal	dollars or re	eal?					,	Assumed e	scalation ra	ite?														
А	В	С	D	E	F	G	Н	I	J	K	L	М	Ν	0	P	Q	R	S	Т	U	V	W	X	Y	Z	AA	
Generation statistics (as applicable per resource type)		2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Net capacity	MW																										
Forced outage rate																											
Planned outage rate																											
Annual availability factor																											
Net capacity factor																											
Net annual generation (AC)	GWh																										
Fixed operating expenses (as applicable per resource type)		2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
O&M - general	\$/kW-yr																										
Transmission - electric to point of delivery (POD)	\$/kW-yr																										
Insurance																											
Property tax																											
Asset management fee																											
Environmental monitoring																											
Outside services																											
Other	\$																										
Fuel:																											
Primary fuel source	\$/kW-yr																										
Secondary fuel source	\$/kW-yr \$/kW-yr																										
Primary fuel transportation																											
Secondary fuel transportation	\$/kW-yr																										
Service agreements: Turbine / Generator O&M - service agreement	\$/kW-yr																										
Remaining plant O&M - service agreement	\$/kW-yr																										
Capacity payment	\$/kW-yr																										
Water / Wastewater treatment	\$/kW-yr																										
Spare parts	\$/kW-yr																										
Parasitic power	MWh / yr																										
Permit requirements	\$																										
O&M service agreement - wind	Total \$																										
Development fee																											
Land leases	\$																										
Variable operating expense (as applicable per resource type)		2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	<u>2040</u>	<u>2041</u>	2042	2043	<u>2044</u>	2045	2046	2047	2048	2049	2050
O&M - general	\$ / MWh																										
Running cost - Additional cost (over and above fuel and VO&M cost) incurred for each hour that the unit is online.	\$/h																										
Transmission - electric to point of delivery (POD) Fuel:	\$ / MWh																										
Primary fuel transportation	\$ / MMBtu																										
Secondary fuel transportation	\$ / MMBtu																										
Service agreements:																											
	\$ / MWh or \$/FFH																										
	\$ / MWh or \$/FFH																										
Chemicals	\$ / MWh																										
Production payments to developer	\$ / MWh																										
Landowner royalties	\$ / MWh																										
Fuel cost per unit	\$ / Bone Dry Ton																										

<u>2052</u>	<u>2053</u>	<u>2054</u>	<u>2055</u>	<u>2056</u>	<u>2057</u>	<u>2058</u>	<u>2059</u>	AB Additional Info.
<u>2052</u>	<u>2053</u>	<u>2054</u>	<u>2055</u>		<u>2057</u>	<u>2058</u>	<u>2059</u>	Additional Info.
		2054						Additional Info.

## 9. Bid Certification and Contacts

## Required for all RFP proposals. (Do not remove tab.)

## **Bid certification**

The respondent hereby certifies that this proposal is genuine; not made in the interest of, or on behalf of, any undisclosed person, firm or corporation; and is submitted in conformity with any anti-competitive agreement or rules. The respondent has not directly or indirectly induced or solicited any other bidder to submit a false or sham proposal. The respondent has not solicited or induced any other person, firm or corporation to refrain from proposing. The respondent has not sought by collusion to obtain for itself any advantage over any other respondent. False certification will result in disqualification of bid and forfeiture of the bid fee.

*Note* In addition to providing a fully intact copy of the live Exhibit B forms (in Excel format), bidder must provide a
signed copy of Tab 9. A PDF scan of the signed tab must be submitted electronically along with Exhibit B and all other
attachments. Please include "Bid Certification Signature" in filename of submitted document.

Proposal name	
locked field populates from proposal Tab 2	
Submitted by full legal name of entity	
Name of respondent entity if different from above	
Signature of an Officer of respondent entity or other duly authorized agent	
(include "Bid Certification Signature" in filename of sub	mitted document)
Name of signatory	
Title of signatory	
Date signed	
Please provide a signed copy of Ta	ab 9 (scanned PDF file), along with the complete live Excel proposal form. ove Tab 9 (or any other tab) from the Exhibit B proposal file.
Please provide a signed copy of Ta	
Please provide a signed copy of Ta Do not rem	
Please provide a signed copy of Ta Do not rem <b>Primary contact</b>	
Please provide a signed copy of Ta Do not rem Primary contact Contact name	
Please provide a signed copy of Ta Do not rem Primary contact Contact name Contact title	
Please provide a signed copy of Ta Do not rem Primary contact Contact name Contact title Name of company	
Please provide a signed copy of Ta Do not rem Primary contact Contact name Contact title Name of company Mailing address	

Primary phone	
Email	
Alternate contact	
Contact name	
Contact title	
Name of company	
Mailing address	
City	
State/Province	
Zip code	
Primary phone	
Email	