

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

Exhibit B. Proposal Requirements Forms (Excel Forms)



PSE DRAFT - 5/05/21

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.

- 1 **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 <http://www.pse.com/RFP>.
- 2 **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.
- 3 **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 a validation error response and the web platform will not accept the proposal until the error is corrected.
- 4 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.
- 5 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.
- 6 **Have questions about the form?** Contact us at AllSourceRFPmailbox@pse.com.

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	<input type="text"/>
Commercial Details	All proposals	Tab 2a	<input type="text"/>
Offer Details	All proposals	Tab 2b	<input type="text"/>
Facility	All proposals	Tab 3	<input type="text"/>
Variable Energy	Variable energy (also DERs, if applicable)	Tab 3a	<input type="text"/>
Flexible Capacity	Flexible capacity (also DERs, if applicable)	Tab 3b	<input type="text"/>
Energy Storage	Energy storage (also DERs, if applicable)	Tab 3c	<input type="text"/>
DR_DER_System	DRs, DERs, system resources	Tab 3d	<input type="text"/>
Energy Output (8760)	Variable resource proposals	Tab 4	<input type="text"/>
Integration and Transmission	All proposals	Tab 5	<input type="text"/>
Development - Projects Detail	Development or construction project proposals	Tab 6	<input type="text"/>
Ownership - Capital Costs	Proposals including asset sale offers	Tab 7	<input type="text"/>
Ownership - Operating Costs	Proposals including asset sale offers	Tab 8	<input type="text"/>
Bid Certification and contacts	All proposals	Tab 9	<input type="text"/>
Mutual Confidentiality Agreement	All proposals	Exhibit C	<input type="text"/>
Prototype Term Sheet (by offer structure)	All proposals (or specify Schedule C)	Exhibit E, F and G	<input type="text"/>
PSE Customer Consent Letter	Proposals for projects with a pending request for or agreement for PSE transmission or integration	Exhibit J	<input type="text"/>

Proposals must be substantially complete consistent with the requirements of this RFP.

Proposals that do not provide sufficient information to substantiate a project or offer will not be considered in this RFP.

Minimum qualifying criteria for all proposals (as defined in RFP Section 4)	Select response from dropdown list
Does bidder acknowledge that a bid fee is required, as specified in Section 6 of the All-Source RFP?	<input type="text"/>
Does the bidder confirm that the respondent currently owns or has legally binding rights to develop or market the project(s)?	<input type="text"/>
Does the bidder acknowledge that PSE disclaims and shall not assume any risk associated with any applicable federal or state tax incentives or other programs meant to support a relevant resource?	<input type="text"/>
Does the resource have a nameplate capacity greater than 5 MW?	<input type="text"/>
Has the bidder submitted a request for interconnection? <small>If yes, provide interconnection queue number on Tab 5.</small>	<input type="text"/>
Does this project provide a reasonable and achievable plan and schedule for acquiring long-term, firm transmission to PSE's system on the identified path? <small>See Tab 5</small>	<input type="text"/>
Has the respondent verified either through the TSR process or based on information publicly available on the transmission provider's OASIS site that the identified path has sufficient available transmission capacity (ATC)?	<input type="text"/>
Is the resource located within PSE's contiguous system (west of Cascades)?	<input type="text"/>
If Yes: Does the proposal demonstrate that the resource has the ability to secure network integration or firm, point-to-point transmission service?	<input type="text"/>
If No: Has the bidder specified a transmission path to PSE's system (BPAT.PSEI west of Cascades)? <small>See All Source RFP, Section 2 and Exhibit H.</small>	<input type="text"/>
Is the bidder planning to deliver to one of the delivery points identified in Section 2 of the All-Source RFP (Table 4)? <small>PSE will not accept deliveries at the project's busbar, unless the project interconnects at one of the delivery points specified in Table 3 or on PSE's system.</small>	<input type="text"/>
If the resource is a generation facility requiring fuel, does the proposal include firm fuel arrangements for the duration of the contract term? <small>See tabs 3 and 6</small>	<input type="text"/>
<small>Gas-fired generation proposals must indicate that firm delivery transportation has been arranged. Biomass proposals must demonstrate a fuel supply plan. Standalone energy storage projects must demonstrate the ability to charge and discharge as required to meet the need. See Section 2 of the All-Source RFP for more about standalone storage project requirements.</small>	
For wind or solar resources, does respondent have at least one year of verifiable supporting data with historical wind generation and solar irradiance observations?	<input type="text"/>
If yes, please submit.	<input type="text"/>
Is the project operational, under construction, or in development?	<input type="text"/>
<small>All else equal, PSE prefers operational projects/programs first, projects under construction second, and projects/programs in development third. PSE will not consider conceptual projects in this RFP. Market or energy transfer projects, etc., should select "operational".</small>	
If development or construction, please answer the following:	
Did respondent include an overall project schedule for meeting the commercial operation date?	<input type="text"/>
Does the proposal demonstrate site control for the project and any other project-related infrastructure (e.g., generation tie-line, etc.) consistent with guidance in the non-price scoring matrix in Exhibit A? <small>At a minimum, does the proposal include non-binding letters of intent for the site?</small>	<input type="text"/>
Has the bidder identified required permits and approvals and their status, and provided a schedule for completion as part of the overall project schedule? <small>See Tab 6</small>	<input type="text"/>
Has the bidder started the permitting process?	<input type="text"/>

Has the bidder demonstrated progress toward completion of a habitat study?	20	<input type="text"/>
Does the proposal describe the respondent's labor plan (including family-level wages, benefits and opportunities for local workers and businesses)?	21	<input type="text"/>
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	<input type="text"/>
If not, has bidder proposed a plan to deliver energy and/or capacity starting by the required time?	23	<input type="text"/>
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? <i>Must identify the geographical boundaries of the overall project and depict all property ownerships within those boundaries.</i>	24	<input type="text"/>
Does the proposal include all associated environmental attributes of the project? <i>"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.</i>	25	<input type="text"/>
Has respondent provided an equity plan consistent with the requirements of RCW 19.405.040(8)? See Tab 2a	26	<input type="text"/>
If yes, bidder may also provide a separately submitted written diversity commitment, policy, or plan in addition to their responses on Tab 2a.	27	<input type="text"/>
Respondent agrees to adhere to all applicable safety laws, guidelines and industry practices.	28	<input type="text"/>
Does the proposal comply with all existing local, state and federal laws, regulations, and executive orders, including environmental laws? <i>(e.g., Wash. state's emissions performance standards, RCW 80.80 and rules set forth in WAC 173-407)</i>	29	<input type="text"/>
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	<input type="text"/>
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	<input type="text"/>
Additional minimum qualifying criteria for ownership proposals (as defined in Section 4)		Select response from dropdown list
<i>In addition to the minimum qualifying criteria required for all proposals (above), PSE has identified the following additional criteria for ownership proposals / ownership options.</i>		
Is ownership transfer proposed to occur before, on, or after COD?	1	<input type="text"/>
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	<input type="text"/>
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	<input type="text"/>
Proposal includes details about the proposed service and maintenance plan for major turbine equipment.	4	<input type="text"/>
Proposal includes descriptions of the manufacturer warranties / guarantees for major equipment and the GSU / step-up transformers	5	<input type="text"/>

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 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 manager PGM, or any of their affiliates 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 parties, 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 host)*

If yes, please describe.

Does the project have any known legal issues?

If yes, please describe. Include suits, disputes, administrative investigations, permitting issues, les pendens, apparent or known property boundary ambiguities, trespasses, or encroachments, and any other pertinent legal issues.

In the past five years, has the bidder filed for bankruptcy, been determined to be insolvent or been forced into receivership?

In the past five years, has the bidder or any of its executive officers been convicted of a felony?

Please provide a description of all material litigation to which bidder has been a party at any point in the past five years, including a summary of its resolution or current status. For purposes of this question, "material" means all 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

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.)

Proposal options

Offer structures included in the proposal *Select the response below that best summarizes the offer structure options included in the proposal.*

Proposal includes

Offer options

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 Used (Yes/No)	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>
Offer type <i>If other, fill out "Additional Offer Details" text box below</i>	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>
Ownership Option Included? <i>(Ownership options must also include completion of Tab 7 and Tab 8)</i>	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>
If yes, ownership start year (Year)	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>
If yes, ownership price (\$)	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>
Resource Type	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>
If other, describe.	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>
Offer capacity (MW at POI)	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>
Commercial Operation Date (mm/dd/yyyy)	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>
Term start (mm/dd/yyyy)	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>
Term end (mm/dd/yyyy)	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>
Pricing type <i>(PSE preference is fixed price and uses a 7.39% discount rate to compare different offers)</i>	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>
If fixed price (PSE preference)			
Capacity (\$/kW-year)	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>
Energy (\$/MWh)	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>
If escalating price			
1st year capacity price (\$/kW-year)	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>
Annual escalation (%)	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>
1st yr energy price (\$/MWh)	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>
Annual escalation (%)	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>
If market index premium / discount			
Mid-C spread (\$/MWh)	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>
Contract heat rate (Btu/kWh)	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>
Other charges (If yes, please explain in additional offer details field, below)	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>

Additional offer details

Use the text field below to describe other relevant details about the three offers listed above that are not already specified in the table. For example, offer 1 may have a different transmission delivery point than offers 2 and 3, or one or more of the offers may include generation paired with storage. Please do not use this field to provide a menu of additional offer options. PSE will only evaluate the three (3) offers listed in the table above.

For PPAs, also include bidder's underlying fixed and variable cost of production. All else equal, PSE prefers a pricing structure that closely 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 start and end dates for delivery to PSE, start and end dates for delivery returned by PSE, energy volume (MWh) and price per MWh.

Proposals containing one or more ownership options (e.g., existing resource, turnkey, development assets) must also complete Tab 7. Project Capital Costs and Tab 8. Operating Cost. Specify below any financing costs and the associated estimated payment schedule dates, if included in the total capital cost (Tab 7). PSE may prefer to finance the construction.

Does pricing of this project assume the use of tax incentives?	<input type="text"/>
If pricing is contingent upon receiving tax credits, specify the tax credits.	<input type="text"/>
Production tax credit (%)	<input type="text"/>
Investment tax credit (%)	<input type="text"/>
Method of qualification for safe harbor and description of the work	<input type="text"/>
If utilizing safe harbor equipment:	
What is the qualifying year of the equipment?	<input type="text"/> qualifying year (yyyy)
When does the safe harbor provision for the equipment expire? <small>(i.e., date project must be online to receive them)</small>	<input type="text"/> expiration year (yyyy)
If pursuing safe harbor based on start of construction:	
Project start year to qualify for renewable tax credit	<input type="text"/> qualifying year (yyyy)
Target completion date to qualify for the renewable tax credit	<input type="text"/> completion date (yyyy)
Does pricing above include all current and future environmental attributes?	<input type="text"/>
Confirm that pricing above includes transmission to identified PODs <small>defined as listed in Exhibit H</small>	<input type="text"/>
Confirm that pricing above includes balancing and integration charges.	<input type="text"/>
Confirm that pricing above includes firm hourly scheduling	<input type="text"/>
Does pricing above include emission costs?	<input type="text"/>

3. Facility Detail

(Do not remove tab.)

Resource information summary

Complete this tab to provide general information about the project. Provide additional project details on the relevant tab(s) listed below

- Tab 3a. Variable energy resources - wind, solar, run-of-river hydro, othe
- Tab 3b. Flexible capacity energy resources
- Tab 3c. Energy storage resources
- Tab 3d. DR, DER, market resources

Please ensure that the Tab 4. Energy Output (8760) is also completed as noted / required

Hybrid / DER proponents, please complete all individual resources tabs (3a,3b, 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 *(use Decimal degrees formatting, i.e. 47.610378)*

Longitude *(use Decimal degrees formatting, i.e. -122.200676)*

Real estate

Project size (in acreage)

acres

Submit a map showing the project area and neighboring parcels.

(include "Project Map" in filename of submitted document)

Show anticipated layout of all project facilities including transmission tie lines and natural gas laterals, solar arrays or turbine strings. If applicable, show substations, roads, collection systems, met towers for wind resources, and service buildings. Indicate the location of the transmission line with which the project will interconnect.

Does the project have all necessary leases, easements or other ownership documents to operate the facility throughout the life of the project? *PSE may request this documentation, if the project advances to the second phase of the RFP.*

Describe the land area controlled relative to project facilities.

Submit supporting documentation or additional detail, as needed.

Additional detail submitted?

(include "Land Area" in filename of submitted document)

Provide a general description of project and project site, and describe key project components.

Submit supporting documentation or additional detail, as needed.

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 additional development at the site.

Site control

List percentage of total site (including gen-tie lines) under executed land agreements. (%)

PSE may request this documentation, if the project advances to the second phase of the RFP.

Describe the type of land agreements (e.g. deeds, leases, easements, options, or rights of first refusal to construct, etc.) and/or other ownership documents demonstrating that the respondent has or can administratively gain control of the intended project properties and the legal rights to

If proposal is selected for Phase 2 (due diligence) evaluation, PSE will request copies of these documents for review.

Submit supporting documentation or additional detail, as needed.

Additional detail submitted?

(include "Land Agreements" in filename of submitted document)

Permitting

Submit a permitting checklist for all permits and authorizations required to build and operate the project 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 government approval applications or authorizations required to build and operate the project and generation tie-line. Place special emphasis on key discretionary permits (such as a CUP, site cert and major air, wastewater and/or waste permit). Indicate the status and agency with jurisdiction for each permit or authorization required. For permits and approval applications planned or in progress, include the expected completion dates.

Does respondent have all discretionary permits required to begin construction on the facility?

If the project requires a generation tie-line to interconnect to the high voltage transmission system, does the respondent have all discretionary permits required to construct the tie-line?

Discuss the current status of applications and proceedings, and the schedule and approach to obtain the necessary permits and approvals.

Submit supporting documentation or additional detail, as needed.

Additional detail submitted?

(include "Permit Status" in filename of submitted document)

Is the project located in an area that is ceded land, may have been historically used by a Native American Tribe, and/or that may impact tribal interests?

If yes, has the Tribe been consulted about the project?

Provide details in the space provided below. If the Tribe has not been consulted, state why not and describe any such consultation plans for the future.

Is the respondent aware of any required tribal notifications, permit conditions or costs associated with any tribal agreement or promise?

If yes, please describe in the space below.

Environmental siting

Are there any known environmental issues relative to the development and construction of the project?

If yes, briefly explain below and describe mitigations to be employed. Include impacts to air, water, flora and fauna, energy and natural resources, environmental health, shoreline use, housing, aesthetics, recreation, historic and cultural preservation, transportation, public service and utilities. Describe 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)

Have any environmental studies or assessments been performed related to the site and project?

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 planned.

(include "Environmental Studies" in filename of submitted document,

include wildlife monitoring reports, biological assessments, environmental assessments, environmental impact statements, environmental media sampling reports (air, soil or groundwater), flood control measures or other risk mitigations identified at the site, and any other relevant studies.

Include in the list the status of each study, the person(s) or firm(s) responsible for conducting and completing the work, and their methodologies. For planned or in progress, describe the scope and schedule for completion.

Does respondent have a plan to engage the community and environmental stakeholders to support the proposed project?

If yes, discuss the plan and any ongoing community relations and environmental stakeholder relations.

Submit supporting documentation or additional detail, as needed.

Additional detail submitted?

(include "Community Plan" in filename of submitted document)

Facility emissions

Are there any known or likely operating limits due to permitting, legal, aesthetic, wildlife or other reasons?

If yes, please describe.

Describe how the underlying facility or contract meets the obligations of Washington's Emissions Performance Standards (WAC 173-407).

Public engagement

Is respondent aware of any community or environmental stakeholder concerns associated with the facility?

Discuss ongoing community relations and environmental stakeholder relations. Include any known public support for the project.

Submit supporting documentation or additional detail, as needed.

Additional detail submitted?

(include "Community Relations" in filename of submitted document)

Development projects, see also Tab 6. Development Projects Detail, subparts Environmental Siting and Permitting.

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			
Solar Resource			
Resource status			
If operating, remaining useful life. (years)			
Wind Resource			
Resource status			
If operating, remaining useful life. (years)			
Run of River Hydro			
Resource status			
If operating, remaining useful life. (years)			
Other Used			
Resource status			
If operating, remaining useful life. (years)			

- removed question since irrelevant due to reformatting below
- reformatted question to aid data validation / automation effort
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Solar			
	Offer 1	Offer 2	Offer 3
Describe design.			
Solar panels			
Manufacturer(s)			
Plant DC capacity (MW)			
Annual degradation %			
Panel orientation (from facing south) degrees			
Inverter			
Manufacturer(s)			
Efficiency %			
Plant AC nameplate capacity			
Maximum (MW)			
Maximum (MVA)			
Minimum (MW)			
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 on Tab 4. (If more than one resource, use the combined output. If shaped, use shaped output.)			
8760 data source (onsite data, estimated, etc)			
Independent resource assessment completed			
If so, please submit.			
<small>(include "Solar Independent Resource Assessment" in filename of submitted document)</small>			
O&M Costs			
Variable O&M Costs \$/MWh assumed included in offer price			
Escalation rate to be used with above %			

clarified question to allow for multiple manufacturers

clarified question to allow for multiple manufacturers

added reference to Tab 4 for 8760 data

added instructions for providing values

clarified that O&M costs are assumed to be included in offer price

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(s)			
Model(s)			
Describe any expected upgrades / revisions in proposed model from current / historical models.			

clarified question to allow for multiple manufacturers

clarified question to allow for multiple 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 (MW)			
Maximum (MVA)			
Minimum (MW)			
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 on Tab 4. (If more than one resource, use the combined output. If shaped, use shaped output.)			
8760 data source (onsite data, estimated, etc)			
Independent resource assessment completed			
If so, please submit.			
<small>(Include "Wind Independent Resource Assessment" in filename of submitted document)</small>			
O&M costs			
Variable O&M costs \$/MWh assumed included in offer price			
Escalation rate to be used with above %			

added reference to Tab 4 for 8760 data

added instructions for providing values

clarified that O&M costs are assumed to be included in offer price

	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			
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 on Tab 4. (If more than one resource, use the combined output. If shaped, use shaped output.)			
8760 data source (onsite data, estimated, etc)			
Independent resource assessment completed			
If so, please submit.			
<small>(Include "Hydro Independent Resource Assessment" in filename of submitted document)</small>			
Operations			
Forced outage rate %			
Mean time to repair hrs			
O&M costs			
List variable O&M costs \$/MWh assumed included in offer price			
List escalation rate to be used with above %			
Annual planned maintenance			
Expected average days per year			
Expected timing month / season			
Estimated annual unit availability (provide value on % of year basis)			

added reference to Tab 4 for 8760 data

added instructions for providing values

clarified that O&M costs are assumed to be included in offer price

added clarification to question

	Offer 1	Offer 2	Offer 3
Describe design.			
Plant AC nameplate capacity			
Maximum (MW)			
Maximum (MVA)			
Minimum (MW)			
Ramping control			
Ramp up MW/min			
Ramp down MW/min			
Describe			

Energy output			
Estimated net annual capacity factor	%	<input type="text"/>	<input type="text"/>
Nov to Feb capacity factor	%	<input type="text"/>	<input type="text"/>
Is resource shaped?		<input type="text"/>	<input type="text"/>
Include 8760 data on Tab 4. (If more than one resource, use the combined output. If shaped, use shaped output.)			
8760 data source (onsite data, estimated, etc)		<input type="text"/>	<input type="text"/>
Independent resource assessment completed		<input type="text"/>	<input type="text"/>
If so, please submit.		<input type="text"/>	<input type="text"/>
<small>(include "Other Independent Resource Assessment" in filename of submitted document)</small>			
O&M costs			
List variable O&M costs.	\$/MWh	<input type="text"/>	<input type="text"/>
	<i>assumed included in offer price</i>	<input type="text"/>	<input type="text"/>
List escalation rate to be used with above.	%	<input type="text"/>	<input type="text"/>
Ownership Options			
For offers that include ownership options for flexible capacity resources, please complete the following additional tabs:			
Tab 7. Ownership - Capital Costs			
Tab 8. Ownership - Operating Costs			

added reference to Tab 4 for 8760 data

added instructions for providing values

clarified that O&M costs are assumed to be included in offer price

added statement to clarify additional requirements for ownership options

3b . Facility Detail for Flexible Capacity Resources

Not required for non-unit contingent System PPAs. Required for all other RFP proposals. (Do not remove tab.)

Flexible Capacity Resource Summary				Offer 1	Offer 2	Offer 3				
Flexible Capacity Resource				<input type="text"/>	<input type="text"/>	<input type="text"/>				
Flexible Capacity Resource Type				<input type="text"/>	<input type="text"/>	<input type="text"/>				
Resource status				<input type="text"/>	<input type="text"/>	<input type="text"/>				
If operating, provide remaining useful life. (years)				<input type="text"/>	<input type="text"/>	<input type="text"/>				
Capacity										
Plant AC Nameplate capacity										
ISO conditions										
Maximum capacity (MW)				<input type="text"/>	<input type="text"/>	<input type="text"/>				
Minimum capacity (MW)				<input type="text"/>	<input type="text"/>	<input type="text"/>				
Winter (0 deg F, 1000 ft elevation)										
Maximum capacity (MW)				<input type="text"/>	<input type="text"/>	<input type="text"/>				
Minimum capacity (MW)				<input type="text"/>	<input type="text"/>	<input type="text"/>				
Summer (90 deg F, 1000 ft elevation)										
Maximum capacity (MW)				<input type="text"/>	<input type="text"/>	<input type="text"/>				
Minimum capacity (MW)				<input type="text"/>	<input type="text"/>	<input type="text"/>				
Capacity limited by permits?				<input type="text"/>	<input type="text"/>	<input type="text"/>				
If yes, describe.				<input type="text"/>	<input type="text"/>	<input type="text"/>				
Nov to Feb availability %				<input type="text"/>	<input type="text"/>	<input type="text"/>				
Capability										
Facility start-up time										
Start-up cost (\$)		Hot	Warm	Cold	Hot	Warm	Cold	Hot	Warm	Cold
Start-up fuel (MMBtu)		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Start-up cooling state / Registered cooling time (hours)		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Start-up ramp rate (MW/min)		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<i>Applied when running the resource from zero to min capacity</i>										
Ten-minute start capable		<input type="text"/>			<input type="text"/>			<input type="text"/>		
Maximum starts (per day)		<input type="text"/>			<input type="text"/>			<input type="text"/>		
Describe cycling limitations.		<input type="text"/>			<input type="text"/>			<input type="text"/>		
Ramp rates										
Ramp up MW/min		<input type="text"/>			<input type="text"/>			<input type="text"/>		
Ramp down MW/min		<input type="text"/>			<input type="text"/>			<input type="text"/>		
Describe		<input type="text"/>			<input type="text"/>			<input type="text"/>		
Heat rate										
		Load point	Average heat rate	Load point	Average heat rate	Load point	Average heat rate			
		(MW)	(BTU/kWh)	(MW)	(BTU/kWh)	(MW)	(BTU/kWh)			
Load point 1		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>			
Load point 2		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>			
Load point 3		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>			
Load point 4		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>			
Load point 5		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>			
Load point 6		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>			
Load point 7		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>			
Load point 8		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>			
Load point 9		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>			
Load point 10		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>			
Load point 11		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>			
Operations										
Forced outage rate %		<input type="text"/>			<input type="text"/>			<input type="text"/>		
Mean time to repair (hours)		<input type="text"/>			<input type="text"/>			<input type="text"/>		
Annual planned maintenance										
Expected average days per year		<input type="text"/>			<input type="text"/>			<input type="text"/>		
Expected timing month/season		<input type="text"/>			<input type="text"/>			<input type="text"/>		
Estimated annual unit availability (provide value on % of year basis)		<input type="text"/>			<input type="text"/>			<input type="text"/>		
Costs										
Variable O&M costs \$/MWh assumed included in offer price		<input type="text"/>			<input type="text"/>			<input type="text"/>		
Fixed O&M \$/kW-yr assumed included in offer price		<input type="text"/>			<input type="text"/>			<input type="text"/>		
Escalation rate to be used with above %		<input type="text"/>			<input type="text"/>			<input type="text"/>		
Fuel										
Fuel requirements										
<u>Hourly fuel requirements</u>										
At rated capacity lb/MMBtu		<input type="text"/>			<input type="text"/>			<input type="text"/>		
With duct firing, if applicable lb/MMBtu		<input type="text"/>			<input type="text"/>			<input type="text"/>		
<u>Daily fuel requirements</u>										
At rated capacity lb/MMBtu		<input type="text"/>			<input type="text"/>			<input type="text"/>		
With duct firing, if applicable lb/MMBtu		<input type="text"/>			<input type="text"/>			<input type="text"/>		
Average emissions rate data										
		Fuel source		Fuel source		Fuel source				
		Primary	Secondary	Primary	Secondary	Primary	Secondary			
CO2 lb/MMBtu		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>			

added question to aid data validation / automation effort

clarified that variable O&M costs are assumed to be included in offer price

clarified that fixed O&M costs are assumed to be included in offer price

NOx	lb/MMBtu	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
SOx	lb/MMBtu	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Particulate matter	lb/MMBtu	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Provide additional detail as needed.		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Fuel supply							
<u>Fuel source</u>							
Primary fuel		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Secondary fuel, if applicable		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Storage on site?		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
If yes, for how long at rated capacity? (days)		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Has fuel supply been secured?		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
If yes, please submit a fuel supply plan. <i>(include "Firm Fuel Supply Plan" in filename of submitted document)</i>		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
If no, please describe.		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<u>Fuel transportation</u>							
Is fuel transportation included in price?		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
If not, describe.		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Has fuel transportation been secured?		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Describe fuel transportation method.		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Ownership Options							
For offers that include ownership options for flexible capacity resources, please complete the following additional tabs:							
Tab 7. Ownership - Capital Costs							
Tab 8. Ownership - Operating Costs							

added question to clarify fuel supply plan submittal requirement

3c . Facility Detail for Energy Storage Resources

Not required for non-unit contingent System PPAs. Required for all other RFP proposals. (Do not remove tab.)

Energy Storage Resource Summary		Offer 1	Offer 2	Offer 3
Energy Storage Resource				
Energy Storage 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 / 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 cycle				
Energy maximum (MWh)				
Energy minimum (MWh)				
Energy capacity degradation % per cycle				
Augmentation required?				
Describe augmentation schedule				
Energy output (intended for pumped hydro resources only)				
Estimated net annual capacity factor % , year 1				
Nov to Feb capacity factor % , year 1				
Estimated net average annual energy output MWh				
Nov to Feb average energy output MWh				
Control and operations				
Ramping control				
Ramp up MW/min				
Ramp down MW/min				
Describe				
Charging / Discharging				
Charge efficiency %				
Discharge efficiency %				
Total Round Trip efficiency %				
Hybrid plant control				
Does owner control the energy storage?				
Does the plant need a schedule for state of charge?				
Is the resource intended to time-shift for peak capacity?				

added question to aid data validation / automation effort

reformatted question to aid data validation / automation effort

removed field; not needed

added "MWh" as units to value

added "MWh" as units to value

If yes, describe control.				
Can the energy storage provide operational flexibility?				
If yes, describe control, impact of lifespan.				
Can the facility be curtailed via PSE's Energy Management.				
Operations				
Forced outage rate	%			
Mean time to repair	(hours)			
O&M costs				
Variable O&M costs	\$/MWh			
<i>assumed included in offer price</i>				
Fixed O&M	\$/kW-yr			
<i>assumed included in offer price</i>				
Annual planned maintenance				
Expected average days per year				
Expected timing month/season				
Estimated annual unit availability				
<i>(provide value on % of year basis)</i>				

clarified that variable O&M costs are assumed to be included in offer price

clarified that fixed O&M costs are assumed to be included in offer price

Ownership Options

For offers that include ownership options please include the following:

Expected life span for energy storage system	(years)			
Describe any additional augmentation and recycling of batteries that are included at end of life span				
Describe design engineering firms and project constructor: proven expertise and experience in projects of similar scope and size				
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				
<i>(include "Compliance Documentation" in filename of submitted document)</i>				
If available at the time of bid submittal, provide a comprehensive engineering design documents and drawings well in advance of project construction. If available, bidders should provide one-line diagrams, three-line schematics, communication plans and protocols used, and a list of tags and alarms used in the battery management system ("BMS"). If unavailable at the time of bid submittal, PSE will request this information during the evaluation or negotiation process. Projects will be required to meet all PSE requirements and specifications.				
Engineering documentation submitted				
<i>(include "Engineering Documentation" in filename of submitted document)</i>				

added statement to clarify additional requirements for ownership options

For offers that include ownership options for flexible capacity resources, please complete the following additional tabs:

Tab 7. Ownership - Capital Costs
 Tab 8. Ownership - Operating Costs

3d. Facility Detail for DR, DER, or System Resources

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

Demand Response, Distributed Energy Resources, or System Resource Summaries

	Offer 1	Offer 2	Offer 3
<u>DR Resource</u>			
<u>DER Resource</u>			
<u>System Resource</u>			

reformatted question to aid data validation / automation effort

reformatted question to aid data validation / automation effort

reformatted question to aid data validation / automation effort

Demand response ("DR")

The Base DR offer (Offer 1) can be up to a maximum of 5 years in duration (ending year 2027). Bidder may also include two alternate offers (Offer 2 and Offer 3), which may extend through year 2032.

System design

Program specifics	Offer 1	Offer 2	Offer 3
Describe design.			
Types of loads			
Types of customers			
<u>Marketing plan</u>			
Submit detailed marketing plan if available. <i>(include "DR Marketing Plan" in filename of submitted document)</i>			
Provide summary marketing plan / demonstrate ability to enroll customers.			
<u>Measurement & evaluation plan</u>			
Submit detailed measurement and evaluation plan if available. <i>(include "DR Measure and Eval Plan" in filename of submitted document)</i>			
Provide summary of measurement and evaluation plan, consistent with Exhibit K.			
<u>Integration</u>			
Describe design.			
Describe interface.			
Describe communications protocols.			

IT Security	Offer 1	Offer 2	Offer 3
Does the Respondent have a SOC2 Type II audit report issued within the past 12 months?			
If no, please indicate latest audit and plans for SOC2 Type II certification.			
If not applicable, please explain why.			
Does the Respondent provide US-only hosting options?			
If no, please describe hosting options and plans for US-only hosting.			
If not applicable, please explain why.			
Does the Respondent support encryption of data in transit using SSH or TLS1.2 or later?			
If no, please describe how encryption of data in transit is supported.			
If not applicable, please explain why.			
Does the Respondent support encryption of data at rest using AES256 or better?			
If no, please describe how encryption of data at rest is supported.			
If not applicable, please explain why.			
Does the Respondent support SAML2.0 for single sign on?			
If no, please describe how single sign on is supported.			
If not applicable, please explain why.			

added question to support rubric metrics for IT requirements

added question to support rubric metrics for IT requirements

added question to support rubric metrics for IT requirements

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added question to support rubric metrics for IT requirements

Capacity	Winter power capacity by year (AC) <i>assumed to be 30 days F</i>	Time ahead		Time ahead		Time ahead	
		Day	1 Hour	Day	1 Hour	Day	1 Hour
	2023 (MW)						
	2024 (MW)						
	2025 (MW)						
	2026 (MW)						
	2027 (MW)						
	2028 (MW)						
	2029 (MW)						
	2030 (MW)						
	2031 (MW)						
	2032 (MW)						

Summer power capacity by year (AC)

assumed to be 85 99g F

2023	(MW)				
2024	(MW)				
2025	(MW)				
2026	(MW)				
2027	(MW)				
2028	(MW)				
2029	(MW)				
2030	(MW)				
2031	(MW)				
2032	(MW)				

If additional availability can be provided, please describe.

--	--	--	--

Pricing

Capacity charge

2023	(\$/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 customer benefit sharing?

--	--	--	--

If yes, describe.

--	--	--	--

Per participant annual incentive

2023	(\$/participant)			
2024	(\$/participant)			
2025	(\$/participant)			
2026	(\$/participant)			
2027	(\$/participant)			
2028	(\$/participant)			
2029	(\$/participant)			
2030	(\$/participant)			
2031	(\$/participant)			
2032	(\$/participant)			

Normalized incentive based on delivered 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 elements

2023	(\$)			
2024	(\$)			
2025	(\$)			
2026	(\$)			
2027	(\$)			
2028	(\$)			
2029	(\$)			
2030	(\$)			
2031	(\$)			
2032	(\$)			

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 (should equal 100%)	% of total	0.00%	0.00%	0.00%

Distributed energy resource ("DER")

Note: Use facility tabs (3a, 3b, 3c) for the specific resources used for the DER, in addition to the main required tabs.

Program specifics

Describe design

--	--	--	--

Types of customers/Site

--	--	--	--

Assessment and acquisition plan

Submit assessment and acquisition plan if available.

(include "DER Assessment and Acquisition Plan" in filename of submitted document)

--	--	--	--

Provide summary of assessment and acquisition plan.

--	--	--	--

Integration

Describe design.			
Describe interface.			
Describe communications protocols.			
<u>IT Security</u>			
Does the Respondent have a SOC2 Type II audit report issued within the past 12 months?			
If no, please indicate latest audit and plans for SOC2 Type II certification.			
If not applicable, please explain why.			
Does the Respondent provide US-only hosting options?			
If no, please describe hosting options and plans for US-only hosting.			
If not applicable, please explain why.			
Does the Respondent support encryption of data in transit using SSH or TLS1.2 or later?			
If no, please describe how encryption of data in transit is supported.			
If not applicable, please explain why.			
Does the Respondent support encryption of data at rest using AES256 or better?			
If no, please describe how encryption of data at rest is supported.			
If not applicable, please explain why.			
Does the Respondent support SAML 2.0 for single sign on?			
If no, please describe how single sign on is supported.			
If not applicable, please explain why.			
<u>Pricing</u>			
Describe pricing.			
Provide any energy charges. \$/kWh			
Provide any capacity charges. \$/kW			
<u>Customer benefit sharing</u>			
Project include customer benefit sharing?			
If yes, please describe.			

added question to support rubric metrics for IT requirements

added question to support rubric metrics for IT requirements

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added question to support rubric metrics for IT requirements

System Resources			
Describe design.			
<u>System</u>			
Specified?			
If yes, describe.			
<u>Plant AC capacity</u>			
Maximum (MW)			
Maximum (MVA)			
Minimum (MW)			
Dispatchable?			
If yes, can it be shaped?			
<u>Ramping control</u>			
Ramp up %			
Ramp down %			
Describe			
<u>Events</u>			
Number of events - winter	integer		
duration	(hrs)		
Number of events - summer	integer		
duration	(hrs)		
Description of measurement and verification			
<u>Energy output</u>			
Estimated net annual capacity factor	%, year 1		
Nov to Feb capacity factor	%, year 1		
Include 8760 data on Tab 4. (If more than one resource, use the combined output. If shaped, use shaped output.)			
8760 data source (onsite data, estimated, etc)			
Independent resource assessment completed			
If so, please submit (include "Market Independent Resource Assessment" in filename of submitted document)			

added reference to Tab 4 for 8760 data

added instructions for providing values

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
Energy Profile Used	<input type="text"/>	<input type="text"/>	<input type="text"/>
Project capacity at POI (MW)	<input type="text"/>	<input type="text"/>	<input type="text"/>
Project annual output at POI (MWh)	<input type="text"/>	<input type="text"/>	<input type="text"/>

* Note the 8760 data should be based on historical data, when possible.
 * Offers that include multiple resources (wind, solar, energy storage, etc) or is shaped, should submit the combined 8760 output.
 * Please format data to at most 4 decimal places (shown in the table below)

	Offer 1	Offer 2	Offer 3
Hour ending	POI MW	POI MW	POI MW
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
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5. Interconnection and Transmission

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

Delivery Path

Is project a DR or DER?

If project is a DR or DER, please use the following text box to clarify any information with respect to interconnection and transmission.

For all others (non-DER), please specify the information below.

Point of interconnection ("POI")

Point of receipt ("POR") *if different from the POI*

Point of delivery ("POD")

Interconnection

Interconnection provider

Type of interconnection request

Has interconnection been secured for the project?

Has interconnection been requested for the project?

If yes, provide LGIA queue number.

Date of LGIA signing or expected signing.

State any needed interconnection upgrades and associated costs.

Expected completion date for interconnection upgrades.

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

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

Does the project require construction of a tie-line to the POI?

If yes:

How long is the tie-line? (*miles*)

Expected completion date of the tie-line

Submit a map showing the tie-line route relative to the project and the POI. Include the development, design and construction work as part of the attached detailed project development schedule described on Tab 6. Development Projects Detail.

Describe the location of the tie-line relative to the project and the POI. Include the development/construction status of the tie-line. Describe relevant permitting and land rights matters associated with the tie-line on Tab 6. Development Projects Detail in the site control and permitting sections.

Are there any other construction plans for any interconnection facilities?

If yes, describe below.

--

Transmission service

Transmission provider(s).	
Does the project request to use PSE's transmission as identified in Exhibit H?	
If project interconnected on PSE System, west of Cascades:	
Has transmission been <u>secured</u> for the project?	
If yes, what type of transmission service has been secured?	
Has transmission been <u>requested</u> 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 project is not interconnected on PSE System, west of Cascades, or utilizing PSE's transmission indicated in Exhibit H:

Complete table below as it pertains to each wheel required to deliver energy to PSE.

Number of transmission wheels in developer transmission plan.

Complete a column below for each wheel.

	1	2	3
Transmission wheels <i>specified above</i>			
Transmission provider for each wheel			
POR			
POD			
Sink			
Cost for each wheel (\$/kW-month)			
Has transmission been <u>secured</u> for this wheel?			
Has transmission been <u>requested</u> 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

Is there anything else PSE needs to know about your transmission plan? For example, are there any alternate solution(s) to firm the delivery of energy to PSE's system over the term of the proposal? Describe below.

Energy Storage - load request

Does energy storage project require a separate transmission service to charge the device?

If yes, please describe transmission status to required for charging.

Ancillary services

Project balancing authority

For projects outside PSE's balancing authority area (BAA), provide the following:

Service	Party responsible
Operating reserves	<input style="width: 90%; height: 20px;" type="text"/>
Resource integration (intermittent resources)	<input style="width: 90%; height: 20px;" type="text"/>
Scheduling	<input style="width: 90%; height: 20px;" type="text"/>
Regulating reserves	<input style="width: 90%; height: 20px;" type="text"/>
Generation imbalance	<input style="width: 90%; height: 20px;" type="text"/>
Other required ancillary service(s)	<input style="width: 90%; height: 20px;" type="text"/>
Specify other	<input style="width: 90%; height: 20px;" type="text"/>

PURPA qualifying facilities

Is respondent proposing a QF resource located outside the Pacific Northwest as defined for the BPA in Section 3 of the Pacific Northwest Electric Power Planning Conservation Act (94 Stat. 2698; 16 U.S.C. Sec 839a)?

If yes, describe how electricity from the facility will be delivered to Washington state on a real-time basis without shaping, storage or integration services.

Does the owner/developer plan to pursue eligibility through the PURPA?

6. Development - Details

Required for development and construction projects. Not required for operating projects or non-unit-contingent offers. (Do not remove tab.)

Schedule

Submit a detailed project development schedule covering the period from the initiation of development activities through the project's proposed COD. *(e.g., Gantt chart)*

Include the most accurate estimates available for each of the following:

Project development	Construction	Include any additional timelines applicable to the project that will demonstrate its status and plans
Permitting	Startup	Include any actions taken to ensure the schedule is met (e.g., long-lead equipment orders)
Interconnection	Testing	Include any potential opportunities to improve the schedule
Engineering	Commissioning	

Construction

Have any arrangements or commitments been made for the construction of the project?

(e.g., contracts, LOIs, MOUs)

Describe the contractual structure proposed for project design, procurement and construction, and any arrangements or commitments for project construction. *(e.g., turnkey; engineering, procurement and construction (EPC); multiple lump-sum purchase, etc.)*

Submit supporting documentation or additional detail, as needed to fully respond.

Additional detail submitted?

(include "Development contractual structure" in filename of submitted document)

Describe any arrangements or commitments that have been made for either safe harbored and/or major equipment.

Submit supporting documentation or additional detail, as needed to fully respond.

Additional detail submitted?

(include "Development safe harbor and major equipment" in filename of submitted document)

Submit information about the organization and individual responsible for project management during this phase.

(include "Development project management" in filename of submitted document)

Has the respondent established a labor plan?

If yes, please submit the labor plan

(include "Labor Plan" in filename of submitted document)

If yes, is it consistent with RCW 82.08.962 and 82.12.962:

High standards?

Family-level wages?

Benefits?

Opportunities for local workers and businesses?

Will the project utilize a Project Agreement or Community Workforce Agreement for major construction activities associated with the construction of the project?

Does the respondent agree to make commercially reasonable efforts to ensure that such Project Agreement or Community Workforce Agreement is eligible to be certified by the Washington Department of and Industries under the standards of the Washington State Clean Energy Transformation Act (RCW 19.405)?

Will the project utilize apprenticeship during the construction phase of the project?

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 accrue to PSE throughout the term of the PPA at the offer price specified in the proposal?

Briefly describe the 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)

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 3

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 submitted document)

Name of signatory**Title of signatory****Date signed**

Please provide a signed copy of Tab 9 (scanned PDF file), along with the complete live Excel proposal form.

Do not remove Tab 9 (or any other tab) from the Exhibit B proposal file.

Primary contact

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

Email	<input type="text"/>
Alternate contact	
Contact name	<input type="text"/>
Contact title	<input type="text"/>
Name of company	<input type="text"/>
Mailing address	<input type="text"/>
City	<input type="text"/>
State/Province	<input type="text"/>
Zip code	<input type="text"/>
Primary phone	<input type="text"/>
Email	<input type="text"/>