

2020 All-Source RFP for Peak Capacity Resources:

Exhibit B. Proposal Requirements Forms

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Instructions for Respondents

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. Respondents should plan to provide all relevant information necessary to assess their proposals. PSE may also send additional data requests to respondents 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 set of forms for each proposal submitted.** You may submit up to four (4) offers for each proposal.

For the purposes of this RFP, a **proposal** is defined as a bid containing one or more offer options for the same resource or resources. A respondent may submit as many proposals for different resources as desired. Proposals are not mutually exclusive.

For the purposes of this RFP, **offers** are defined as options within a single proposal for the same resource or resources (i.e., mutually exclusive). A respondent may submit up to four offers per proposal varying options such as capacity (MW), term, start or end dates, pricing structure, transmission delivery point, with or without storage, or other proposal elements.
- 3 **Respondents shall not modify any part of the Exhibit B template.** The enclosed forms are designed to be inputs into PSE's proposal database and models and may not function properly if altered. The entire, completed form template must be submitted in Excel format. If a tab indicates that it does not apply to the resource you are proposing, leave it blank, but do not delete it.
- 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 be asked to do so before their proposal will be considered.
- 5 **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 Yes or No
Required proposal contents	All proposals	Exhibit B	
Proposal contents checklist	All proposals	Tab 1	<input type="text"/>
Offer and commercial detail	All proposals	Tab 2	<input type="text"/>
Facility detail	All unit-contingent proposals	Tab 3	<input type="text"/>
Variable energy output profile (8760)	Intermittent 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"/>
Project capital costs	Proposals including asset sale offers	Tab 7	<input type="text"/>
Operating costs	Proposals including asset sale offers	Tab 8	<input type="text"/>
Transmission costs	All proposals	Tab 9	<input type="text"/>
Proposal certification and contacts	All proposals	Tab 10	<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 Transmission Customer Consent	Proposals for projects with a pending request for or agreement for PSE transmission or integration	Exhibit H	<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 Proposal Criteria (as defined in RFP Section 4)	Select Yes or No
Does proposal start date substantially align with PSE's stated need as defined in the RFP? <small>See All Source RFP Section 1, Resource Need.</small>	1 <input type="text"/>
Does this resource provide material peak capacity contribution to PSE's load? <small>Source RFP Section 2.</small>	2 <input type="text"/>
<small>Projects must include a material capacity contribution to be considered eligible for this RFP. For the purposes of the RFP, peak load is defined as seasonal (Nov.-Feb., Dec.-Feb. or Nov.-Mar.), heavy load hour (HE 0700-2200) and super peak (HE 0700-1000 and 1800-2100, Nov.-Jan.). Capacity contribution will be determined based on the project's ability to meet winter peak load. Proposals that help meet winter peak need while minimizing surpluses off peak will benefit in PSE's analysis. Projects with very little or minimal winter peak capacity contribution (relative to the project's overall size) will not be considered.</small>	
Does this project have a completed interconnection agreement?	3 <input type="text"/>
If not, has the respondents submitted a request for interconnection?	4 <input type="text"/>
Has the project received an interconnection system impact study?	5 <input type="text"/>
Is the resource located within PSE's contiguous system (west of Cascades)?	6 <input type="text"/>
If not, has the respondents specified a transmission path to PSE's system (BPAT.PSEI west of Cascades)? <small>Mid-C delivery does not provide incremental peak capacity to PSE. See All Source RFP, Section 4.</small>	7 <input type="text"/>
Has the respondent submitted a transmission service request?	8 <input type="text"/>
Has the project received a transmission system impact study?	9 <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?	10 <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)?	11 <input type="text"/>
If the resource is a generation facility requiring fuel, does the proposal include a firm fuel arrangements? <small>i.e., firm delivery transportation for natural gas-fired generation, firm fuel supply for biomass, etc.</small>	12 <input type="text"/>
Is the proposed resource a development or construction project? <small>All else equal, PSE prefers operational projects first, projects under construction second, and development projects third. PSE will not consider conceptual projects in this RFP.</small>	13 <input type="text"/>
If yes, did respondent include a detailed schedule for meeting the commercial operation date?	14 <input type="text"/>
Does project have (and does proposal demonstrate) site control for the project lands and any generation tie-line?	15 <input type="text"/>
Has the respondent submitted applications for discretionary permits?	16 <input type="text"/>
Does proposal identify permits and approvals required to develop, complete and operate the proposed project, their status and provide a schedule for completion?	17 <input type="text"/>
Does the proposal describe the respondent's labor plan (including family-level wages, benefits and opportunities for local workers and businesses)?	18 <input type="text"/>
For wind or solar resources, does respondent have at least 3 years of verifiable supporting data with historical wind generation and solar irradiance observations? <small>If selected for further due diligence in Phase 2, PSE will request this data.</small>	19 <input type="text"/>

Respondent agrees to adhere to all applicable safety laws, guidelines and industry practices, and to provide a culture of safety.

20

Does pricing of this project assume the use of tax incentives?

Proposals with pricing contingent upon tax incentives must specify the incentives in the proposal. See RFP Section 4.

21

If yes, specify tax incentives.

22

Does the proposal comply with all existing local, state and federal laws and regulations, including environmental laws? (e.g., Wash. state's emissions performance standards, RCW 80.80 and rules set forth in WAC 173-407)

23

Respondent has read Section 5 of the RFP and acknowledges that PSE will not accept credit requirements imposed on PSE by respondents in the negotiation of contracts.

24

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 liquedated damages if they are missed. PSE may also impose credit requirements based on the respondent's credit rating.

25

Additional proposal preferences (as stated in RFP Section 4 and Exhibit A)

Select Yes or No

The characteristics described below are strongly preferred in this All Source RFP for capacity resources. See Exhibit A for a detailed list of proposal criteria.

If a PPA, does this proposal offer a long-term fixed price product?

All else equal, PSE prefers proposals that include a long-term fixed price product option.

25

All resources must comply with Washington state's Emission Performance Standards (WAC 173-407). For non-unit contingent market PPAs, term limits must be less than 5 years unless the underlying resource (or pool of resources) is identified by the bidder and can demonstrate compliance with the standards.

Is the project a renewable or non-emitting resource?

26

Proposals that offer a material capacity contribution and renewable attributes will be considered to have additional value to PSE for the purposes of meeting PSE's obligations under the Washington state RPS and the Clean Energy Transformation Act. This additional renewable benefit will be taken into account in PSE's analysis.

If yes, does the proposal and pricing include the environmental attributes of the project?

To be eligible for this RFP, renewable resources must include the environmental attributes of the project. RFP Section 4.

27

Does the proposed project have the capability to dispatch over a long period of time?

28

Projects with the ability to dispatch over a long period of time will be considered to have particularly relevant value in this RFP. See Figure 3 in the All Source RFP, Section 2 for electric load carrying capability values ("ELCC") for batteries based on discharge duration.

If yes, how long? *specify units*

29

2. Offer and Commercial Details

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

Respondent and offer summary

Respondent seller/owner/developer

Is the seller a subsidiary or affiliate of PSE? see RFP Section 4

If yes, please specify the subsidiary or affiliate

Examples of affiliates include: 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 PGGM, or any of their affiliates and subsidiaries.

Briefly describe any prior experience working with PSE
e.g., prior RFPs, prior projects/contracts, existing contracts

Proposed commercial arrangement see RFP Section 2

If other or multiple offers, describe commercial arrangements

All resources must comply with Washington state's Emission Performance Standards (WAC 173-407). For non-unit contingent market PPAs, term limits must be less than 5 years unless the underlying resource (or pool of resources) is identified and can demonstrate compliance with the standards.

Resource type

If other, explain

Briefly describe offer

e.g., 15-year wind PPA or 4-year winter-only system PPA

General facility information

Project/Facility name (proposal name)

Resource location

City / Town

County

State / Province

Latitude if negative, please enter ="-123.456789"

Longitude if negative, please enter ="-123.456789"

Resource status

Commercial operation date mm/dd/yyyy

Offer options

To ensure that all proposals receive due consideration and to support our evaluation schedule, PSE will consider up to 4 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.

Offer capacity <small>(MW)</small>	Term start <small>(mm/dd/yyyy)</small>	Term end <small>(mm/dd/yyyy)</small>	1st yr energy price <small>(\$/MWh)</small>	Annual escalation <small>(%)</small>	1st year capacity price <small>(\$/kW-year)</small>	Annual escalation <small>(%)</small>	Start charges <small>(\$/MW per start)</small>	Contract heat rate <small>(Btu/kWh)</small>	Other charges <small>(explain in additional offer details field)</small>	Purchase price <small>(asset sales only) (in \$USD)</small>
####										
####										
####										
####										

Additional offer details

Use the text field below to describe other relevant details about the four offers listed above that are not already specified in the table. For example, offers 1 and 2 may have different transmission delivery points than offers 3 and 4, 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 four 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.

If pricing is contingent upon receiving tax credits, specify the tax credits.

locked field populates from Tab 1

Production tax credit

 %

Investment tax credit

 %

Method of qualification for safe harbor and description of the work

If utilizing safe harbor equipment:

What is the qualifying year of the equipment?

qualifying year (yyyy)

When does the safe harbor provision for the equipment expire?

expiration year (yyyy)

(i.e., date project must be online to receive them)

If pursuing safe harbor based on start of construction:

Project construction start year to qualify for the renewable tax credit

qualifying year (yyyy)

Target completion date to qualify for the renewable tax credit

completion date (yyyy)

Does pricing above include all environmental attributes?

Does pricing above include transmission to PSE's system?

defined as BPAT.PSEI or directly connected to PSEI.SYS (west of Cascades)

If pricing includes transmission service to another delivery point, specify:

Does pricing include balancing and integration charges?

Will the seller provide scheduling?

Does pricing above include operating reserves?

Does respondent assume all environmental risk?

Does pricing above include emission costs?

Legal and financial

Attach a deal diagram attachment that shows all contractual parties, listed by their legal names, and their relationship with the project.

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 and any other pertinent legal issues.

Attach additional documentation, if needed.

If the project is a development project, how does the respondent plan to finance the project?

3. Facility Detail for Unit Contingent Offers

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

Resource information summary

Resource type

locked field populates from Tab 2

If other, explain

locked field populates from Tab 2

Describe technology *Attach additional supporting documentation, if needed.*

Specify make(s) and model(s) of generator unit(s), boiler units or panels. For each type, specify number of units and configuration (as appropriate), MW/unit and other relevant details. Include inverter make(s) and model(s) for solar and batteries.

Resource status

locked field populates from Tab 2

If Operating, provide remaining useful life.

years

If project is in Development or Construction phase, complete Tab 4.

Nameplate offer capacity

MW

AC only

For solar, provide AC inverter output. For storage, provide max facility capacity (MW).

Nameplate capacity of the facility

MW

AC only

At ISO conditions?

If not, specify

°F

elevation (feet)

Additional capacity details:

Use "other" fields below to provide relevant capacity information not captured in the fields above; for example: DC panel capacity for solar resources, max storage capacity (MWh) for storage resources, duct firing for resources offering incremental capacity, etc.

Other:

Other:

Average Dec. temp at project location and corresponding capacity

°F

MW

AC only

For must-run and must-take resources, and renewables

Provide estimated net annual capacity factor *if applicable*

%

and select

Complete Tab 4. Energy Delivery (8760)

Attach five-minute dispatch data streams (at least one year). Provide a spreadsheet similar to Tab 4, but with 365x288 data points.

Has an independent resource assessment been performed?

If yes, attach assessment report.

If solar, identify irradiation data source.

Nov to Feb availability *consistent with Tab 4. Variable Energy Output (8760)*

%

If resource will be shaped by another balancing authority area (BAA) in region or with local batteries, provide a brief description of the shaping arrangement.

Will the plant automatically shape?

If so, describe how plant dispatches will result in shaped power.

Note: If proposal is selected to advance to Phase 2 of the RFP, PSE may ask the bidder to provide 5- and 15-minute dispatch, or hourly dispatch data as part of its due diligence review of the project.

Forced outage rate %

Forced outage rate should represent the expected annual forced outages excluding planned maintenance.

Expected average annual planned maintenance days per year

Expected timing of annual planned outages

Describe the estimated annual unit availability, any guaranteed minimum availability and level of production.

Nominal Heat Rate *required for thermal resources* Btu/kWh (HHV)

ISO conditions? If no, specify °F elevation (feet)

Facility operating characteristics and limits

Minimum run time hours

Minimum down time hours

Minimum operating load MW

Minimum operating load allowable by permits *if applicable* MW

Maximum starts per

If other, explain

Describe cycling limitations *if applicable*

Include any full lifetime cycle limits and any daily cycle limits, as applicable and available.

Facility start-up time

Hot hours

Warm hours

Cold hours

Is facility ten-minute start capable?

Ramp rate *if applicable* % up % down

Specify amount of fuel consumed in during start-up cycle MMBtu

Specify amount of electricity consumed during start-up cycle MW

For solar proposals

Specify degradation by year

Specify panel orientation degrees from south facing

Supplemental data for battery storage and hybrid storage resources

[All other resources click here to skip ahead to site control.](#)

Battery storage chemistry

Battery manufacturer

Inverter manufacturer

MVAr output available at rated MW capacity

MVAr

Expected life of energy storage media *assume a full discharge and recharge at rated capacity for specified duration (within SOC limitations) each day*

Hours of run-time at rated capacity new

hours

Hours of run-time at rated capacity at end of life

hours

Describe augmentation plan, if any

Facility's minimum state of charge (SOC) or impoundment of energy in percent of maximum SOC or impoundment.

% (in percent of maximum SOC or impoundment)

Define a "cycle" for the system.

Net electric round trip efficiency for storage medium given a full charge/discharge or impoundment/withdraw cycle from minimum SOC to maximum SOC and back.

% beginning of life

% end of life

For battery storage hybrid proposals

Does the plant need a schedule for state of charge?

Is the resource intended to time-shift for peak capacity?

If yes, describe how this will be controlled.

Can the batteries provide operational flexibility?

If yes, describe the services/operational modes the storage system can provide and discuss the impact on the expected life provided above.

Can the facility be curtailed via PSE's Energy Management System (EMS) or by CAISO Dispatch Operating Targets (DOTs)?

Real estate

Project size (in acreage)

acres

Attach a map showing the project area and neighboring parcels.

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.*

Development projects, see also Tab 6. Development Projects Detail, subpart Site Control.

Describe the land area controlled relative to project facilities. *Attach additional detail, as needed.*

Provide a general description of project and project site, and describe key project components. *Attach additional detail, as needed.*

Can the project be expanded?

If so, include a description of the potential scope and conditions for additional development at the site.

Facility emissions

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

If so, please describe.

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

Provide air emissions data for the following in tons/GWh or lbs/MMBtu.

Greenhouse gases

Nitrogen oxides

Sulfur

Particulate matter

Provide additional detail, as needed.

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

Fuel supply

Primary fuel

Backup fuel, if applicable

Storage on site?

For how long?

days

Has fuel supply been secured?

Has fuel transportation been secured?

Maximum hourly fuel requirements of the plant at rated capacity

lb/MMBtu

With duct firing, if applicable

lb/MMBtu

Maximum daily fuel requirements of the plant at rated capacity

lb/MMBtu

With duct firing, if applicable

lb/MMBtu

Describe fuel transportation method

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.

Attach supporting documentation or additional detail, as needed.

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

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.)

Project	0
Net Project Capacity (MW)	
Site Annual Generation (MWh)	
Gen-tie line loss	
Collection loss	
POI Annual Generation (MWh)	

Hour Ending	POI MW
1	
2	
3	
4	
5	
6	
7	
8	
9	
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5. Interconnection and Transmission

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

Delivery path

Point of interconnection ("POI")	<input style="width: 100%;" type="text"/>
Point of receipt ("POR") <i>if different from the POI</i>	<input style="width: 100%;" type="text"/>
Point of delivery ("POD")	<input style="width: 100%;" type="text"/>
Are transmission and interconnection studies available?	<input style="width: 100%;" type="text"/>
Does pricing include transmission to PSE's system? <small>locked field populates from Tab 2 defined as BPAT.PSEI or directly connected to PSE's contiguous system (west of Cascades)</small>	0

Interconnection

Interconnection provider	<input style="width: 100%;" type="text"/>
Type of interconnection request	<input style="width: 100%;" type="text"/>
Has interconnection been <u>secured</u> for the project?	<input style="width: 100%;" type="text"/>
Has interconnection been <u>requested</u> for the project?	<input style="width: 100%;" type="text"/>
If yes, provide LGIA queue number.	<input style="width: 100%;" type="text"/>
Date of LGIA signing or expected signing.	<input style="width: 100%;" type="text"/>
State any needed interconnection upgrades and associated costs.	<div style="border: 1px solid black; height: 60px; width: 100%;"></div>
Expected completion date for interconnection upgrades.	<input style="width: 100%;" type="text"/>

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
<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>
<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>
<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>
<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>

Does the project require construction of a tie-line to the POI?	<input style="width: 100%;" type="text"/>
If yes, how long?	<input style="width: 100%;" type="text"/> miles
Expected completion date	<input style="width: 100%;" type="text"/>

Attach 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).

Proposed transmission plan

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

Complete a column below for each wheel.

Transmission wheels <i>specified above</i>	1	2	3
Transmission provider for each wheel	<input type="text"/>	<input type="text"/>	<input type="text"/>
POR	<input type="text"/>	<input type="text"/>	<input type="text"/>
POD	<input type="text"/>	<input type="text"/>	<input type="text"/>
Sink	<input type="text"/>	<input type="text"/>	<input type="text"/>
Cost for each wheel <i>(\$/kW-month)</i>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Has transmission been <u>secured</u> for the project?	<input type="text"/>	<input type="text"/>	<input type="text"/>
Has transmission been <u>requested</u> for the project?	<input type="text"/>	<input type="text"/>	<input type="text"/>
If yes, provide TSR queue number.	<input type="text"/>	<input type="text"/>	<input type="text"/>
When does respondent expect to have long-term firm transmission for the project?	<input type="text"/>	<input type="text"/>	<input type="text"/>
Respondent or PSE responsibility? <i>select one for each wheel</i>	<input type="text"/>	<input type="text"/>	<input type="text"/>

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
<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"/>	<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"/>	<input type="text"/>	<input type="text"/>

Describe any alternate solution(s) to firm the delivery of energy to PSE's system over the term of the proposal.

Ancillary services

Project balancing authority

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

Service	Party responsible	Included in price? <i>on Tab 2</i>
Operating reserves	<input type="text"/>	<input type="text"/>
Resource integration (intermittent resources)	<input type="text"/>	<input type="text"/>
Scheduling	<input type="text"/>	<input type="text"/>
Regulating reserves	<input type="text"/>	<input type="text"/>
Generation imbalance	<input type="text"/>	<input type="text"/>
Other required ancillary service(s)	<input type="text"/>	<input type="text"/>

Specify other

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 Projects Detail

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

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.

Schedule

Attach a detailed project development project 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 it's 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	

Site control

Does the respondent have 100% site control of the project lands, including all leases easements or other ownership documents to develop, construct and operate the facility?

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

If not, what portion of the site control remains to be secured?

 %

If the project requires a generation tie-line to interconnect to the high voltage transmission system, does the respondent have site control (as defined above) of the tie-line property?

Describe the leases, easements and/or other ownership documents demonstrating that the respondent has control of the intended project properties and the legal rights to construct, interconnect, operate and maintain the project as described throughout the life of the project.

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

All proposals, see also Tab 3. Facility (Unit Contingent) subpart Real Estate.

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.

Attach additional information, if necessary to fully respond.

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?

Attach a list of environmental studies completed, in progress and planned.

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.

Attach supporting documentation or additional detail, as needed.

All proposals, see also Tab 3. Facility (Unit Contingent) subpart Facility Emissions.

Permitting

Attach a permitting checklist for all permits and authorizations required to build and operate the project and, if applicable, the associated generation tie-line.

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.

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

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 plans to consult the Tribe in 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.

All proposals, see also Tab 3. Facility (Unit Contingent) subpart Facility Emissions.

Fuel supply

Are there any fuel supply agreements associated with this proposal?

If yes, specify the status of any fuel supply agreements (in place or in progress).

If generation project is fueled by an intermittent renewable resource (such as wind or solar), can respondent provide a third-party report substantiating the projected output?

If yes, attach report.

All proposals, see also Tab 3. Facility (Unit Contingent) subpart Fuel Supply.

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.)*

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

For any approach other than turnkey, attach information about the organization and individual responsible for project management during this phase.

Has the respondent established a labor plan?

If so, does it include:

High labor standards?

Family-level wages?

Benefits?

Opportunities for local workers and businesses?

Will the project utilize a Project Labor 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 Labor Agreement or Community Workforce Agreement is eligible to be certified by the Washington Department of Labor and Industries under the standards of the Washington State Clean Energy Transformation Act (RCW 19.405)?

Will the project utilize apprenticeship labor 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 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, attach a list of open warranty issues.

7. Project Capital Costs

Required for proposals containing asset sale offers. (Do not remove tab.)

		Are costs in nominal dollars or real?										Assumed escalation rate?															
A	B	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC
		2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	Additional Info
1	Project buildout capital costs (as applicable)																										
2	Land acquisition	\$																									
3	Engineering	\$																									
4	Permitting	\$																									
5	Development fees	\$																									
6	Other development costs	\$																									
7	Generation facility	\$																									
8	O&M building	\$																									
9	Project substation	\$																									
10	Generation equipment:																										
11	Wind turbines	\$																									
12	Solar array(s)	\$																									
13	Combustion turbine / generator	\$																									
14	Batteries	\$																									
15	Power control systems / inverters	\$																									
16	Steam turbine	\$																									
17	Spare parts	\$																									
18	Pipeline build-out	\$																									
19	Environmental management / containment	\$																									
20	Remaining balance of plant construction	\$																									
21	Other (taxes, insurance, etc.)	\$																									
22	Contingency	\$																									
23	Initial working capital	\$																									
24	Start up power credit: sales of test power	\$																									
25																											
26	Ongoing capital costs during project operation (as applicable)																										
27	Incremental capital needs (please list)	\$																									
28	Major maintenance	\$																									
29	Combustion inspection	\$																									
30	Hot gas path	\$																									
31	Turbine refurbishments	\$																									
32	Plant upgrades	\$																									
33																											
34																											
35																											
36	Are sales taxes assumed to be included in each line item?																										

8. Project Operating Costs

Required for proposals containing asset sale offers. (Do not remove tab.)

		Are costs in nominal dollars or real? <input type="checkbox"/>													Assumed escalation rate? <input type="checkbox"/>														
A		B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	
			2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	Additional Info.	
1	Generation statistics (as applicable per resource type)																												
2	Nameplate capacity (same as form)	MW																											
3	Forced outage rate	%																											
4	Planned outage rate	%																											
5	Annual availability factor	%																											
6	Net capacity factor	%																											
7	Net annual generation (AC)	GWh																											
8																													
9																													
10	Fixed operating expenses (as applicable per resource type)																												
11	O&M - general	\$/kW-yr																											
12	Transmission - electric to point of delivery (POD)	\$/kW-yr																											
13	Insurance	\$																											
14	Property tax	\$																											
15	Asset management fee	\$																											
16	Environmental monitoring	\$																											
17	Outside services	\$																											
18	Other	\$																											
19	Fuel:																												
20	Primary fuel source	\$/kW-yr																											
21	Secondary fuel source	\$/kW-yr																											
22	Primary fuel transportation	\$/kW-yr																											
23	Secondary fuel transportation	\$/kW-yr																											
24	Service agreements:																												
25	Turbine / Generator O&M - service agreement	\$/kW-yr																											
26	Remaining plant O&M - service agreement	\$/kW-yr																											
27	Capacity payment	\$/kW-yr																											
28	Water / Wastewater treatment	\$/kW-yr																											
29	Spare parts	\$/kW-yr																											
30	Parasitic power	MWh / yr																											
31	Permit requirements	\$																											
32	O&M service agreement - wind	Total \$																											
33	Development fee	\$																											
34	Land leases	\$																											
35																													
36																													
37																													
38	Variable operating expense (as applicable per resource type)																												
39	O&M - general	\$/ MWh																											
40	Transmission - electric to point of delivery (POD)	\$/ MWh																											
41	Fuel:																												
42	Primary fuel transportation	\$/ MMBtu																											
43	Secondary fuel transportation	\$/ MMBtu																											
44	Service agreements:																												
45	Turbine / Generator O&M - service agreement	\$/ MWh or \$/FFH																											
46	Remaining plant O&M - service agreement	\$/ MWh or \$/FFH																											
47	Chemicals	\$/ MWh																											
48	Production payments to developer	\$/ MWh																											
49	Landowner royalties	\$/ MWh																											
50	Fuel cost per unit	\$/ Bone Dry Ton																											
51	Emissions cost	\$/ MWh																											
52																													
57	Are sales taxes assumed to be included in each line item?																												

9. Transmission Costs (if not included in price)

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

	A	B	C	D	E	F	G	H	I	J	K	
1	Transmission Path											
2	Which delivery options are included in price? Check (X) boxes below.											
3				Additional Description (wheels, substation for point of connection, etc)								
4	<i>Busbar</i>			Not applicable for this RFP to meet incremental capacity needs								
5	<i>Mid-C</i>			Not applicable for this RFP to meet incremental capacity needs								
6	<i>To PSE</i>											
7	<i>Other 1</i>											
8	<i>Other 2</i>											
9												
10	Annual Transmission Cost Detail											
				Description	2018	2019	2020	2021	2022	Ongoing		
11	Integration Costs			\$/kW-yr								
12	Fixed Charges (also shown in (2) Opex)			\$/kW-yr								
13	Variable Charges (also shown in (2) Opex)			\$/MWh								
14	Ancillary Services 1 (please describe)			\$								
15	Ancillary Services 2 (please describe)			\$								
16	Ancillary Services 3 (please describe)			\$								
17	Ancillary Services 4 (please describe)			\$								
18	Other 1 (please describe)			\$								
19	Other 2 (please describe)			\$								
20												
21												
22	Additional Transmission Description											
23	Please use the space below to describe all additional transmission assumptions or issues.											
24	<i>(Examples could relate to specifics of substation connection, ancillary services, non-firm transmission, interconnection requests filed, etc)</i>											
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10. Proposal Certification and Contacts Sheet

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

Proposal 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.

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

Name of Officer

Title

Date signed

Please provide a signed copy of Tab 10 (hard copy or scanned), along with the complete live excel proposal form.

Do not remove Tab 10 (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

Alternate Contact**Contact Name****Contact Title****Name of Company****Mailing Address****City****State/Province****Zip Code****Primary Phone****Email**