

**ENERGY IMBALANCE MARKET
IMPLEMENTATION AGREEMENT**

This IMPLEMENTATION AGREEMENT (Agreement) is entered into as of September 26, 2019, by and between the UNITED STATES OF AMERICA, Department of Energy, acting by and through the BONNEVILLE POWER ADMINISTRATION (Bonneville), and the CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION, a California nonprofit public benefit corporation (“ISO”). Bonneville and the ISO are sometimes referred to in the Agreement individually as a “Party” and, collectively, as the “Parties.

RECITALS

WHEREAS, Bonneville is a federal power marketing administration that markets electric power from multiple generating resources, including but not limited to the Federal Columbia River Power System owned and operated by the U.S. Army Corps of Engineers and the U.S. Bureau of Reclamation, and the Columbia Generating Station owned and operated by Energy Northwest;

WHEREAS, Bonneville also owns and/or operates a high voltage transmission system in the Pacific Northwest (the Federal Columbia River Transmission System) and a balancing authority area;

WHEREAS, Bonneville has determined there is an opportunity to secure benefits for Bonneville’s customers through improved dispatch and operation of the Federal Columbia River Power System and through the efficient use and continued reliable operation of existing and future transmission facilities and desires to participate in the energy imbalance market operated by the ISO (“EIM”);

WHEREAS, the ISO has determined there are benefits to ISO market participants through greater access to energy imbalance resources in real-time and through the efficient use and reliable operation of the transmission facilities and markets operated by the ISO, and desires to expand operation of the EIM to include Bonneville;

WHEREAS, Bonneville acknowledges that the rules and procedures governing the EIM are set forth in the provisions of the ISO tariff as filed with the Federal Energy Regulatory Commission (“FERC”) and that participation in the EIM requires corresponding revisions to Bonneville’s rate schedules and Open Access Transmission Tariff (“Bonneville Tariff”);

WHEREAS, Bonneville’s decision to participate voluntarily in the EIM is within Bonneville’s sole discretion, and Bonneville will only participate in the EIM so long as such participation is on a voluntary basis and on terms and conditions acceptable to Bonneville, including Bonneville’s unilateral right to terminate this Agreement as set forth below;

WHEREAS, Bonneville's EIM implementation and participation is limited to the scope of the EIM at the time this Agreement becomes effective pursuant to Section 1 below. Bonneville is under no obligation to participate in any expanded EIM markets (e.g., day-ahead); and

WHEREAS, the Parties are entering into this Agreement to set forth the terms upon which the ISO will timely configure its systems to incorporate Bonneville into the EIM ("Project") on or before March 1, 2022 ("Implementation Date").

NOW THEREFORE, in consideration of the mutual covenants contained herein, and of other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties agree as follows:

AGREEMENT

1. Effective Date, Term, and Bonneville's Non-Jurisdictional Status

- (a) This Agreement shall become effective upon the date the Agreement is accepted, approved or otherwise permitted to take effect by FERC, without condition or modification unsatisfactory to either Party ("Effective Date").
- (b) In the event FERC requires any modification to the Agreement or imposes any other condition upon its acceptance or approval of the Agreement, each Party shall have ten (10) business days to notify the other Party that any such modification or condition is unacceptable to that Party. If no Party provides such notice, then the Agreement, as modified or conditioned by FERC, shall take effect as of the date determined under Section 1(a). If either Party provides such notice to the other Party, the Parties shall take any one or more of the following actions: (i) meet and confer and agree to accept any modifications or conditions imposed by such FERC order; (ii) jointly seek further administrative or legal remedies with respect to such FERC order, including a request for rehearing or clarification; or (iii) enter into negotiations with respect to accommodation of such FERC order, provided however, if the Parties have not agreed to such an accommodation within thirty (30) calendar days after the date on which such FERC order becomes a final and non-appealable order, such order shall be deemed an adverse order and the Parties shall have no further rights and obligations under the Agreement.
- (c) The term of the Agreement ("Term") shall commence on the Effective Date and shall terminate upon the earliest to occur of (1) the date all necessary revisions to the Bonneville Tariff, Bonneville's rate schedules, and the ISO tariff necessary for the commencement of Bonneville's participation in the EIM have taken effect (when the market becomes financially binding on transactions within Bonneville's balancing authority area); (2) termination in accordance with Section 2 of this Agreement; or (3) such other date as mutually agreed to by the Parties ("Termination Date").

- (d) This Agreement shall automatically terminate on the Termination Date and shall have no further force or effect, provided that the rights and obligations set forth in Sections 5 and 6 shall survive the termination of this Agreement and remain in full force and effect as provided therein.
- (e) The ISO acknowledges that Bonneville is a non-jurisdictional utility described in section 201(f) of the Federal Power Act, 16 U.S.C. 824(f), and respects Bonneville's interest in remaining so. Nothing in this Agreement or subsequent EIM-related agreements is intended to create additional FERC jurisdiction for Bonneville, nor shall it be construed in a manner that creates additional FERC jurisdiction for Bonneville.

2. Termination

- (a) The Parties may mutually agree to terminate this Agreement in writing at any time. In addition, either Party may terminate this Agreement in its sole discretion after conclusion of the negotiation period in Section 2(b) or as provided in Section 2(d) or 2(e) as applicable.
- (b) If either the ISO or Bonneville seeks to unilaterally terminate this Agreement, it must first notify the other Party in writing of its intent to do so ("Notice of Intent to Terminate") and engage in thirty (30) calendar days of good faith negotiations in an effort to resolve its concerns. If the Parties successfully resolve the concerns of the Party issuing the Notice of Intent to Terminate, the Party that issued such notice shall notify the other Party in writing of the withdrawal of such Notice ("Notice of Resolution").
- (c) At the time the Notice of Intent to Terminate is provided, or any time thereafter unless a Notice of Resolution is issued, Bonneville may provide written notice directing the ISO to suspend performance on any or all work on the Project for a specified period of time ("Notice to Suspend Work"). Upon receipt of a Notice to Suspend Work, the ISO shall: (1) discontinue work on the Project; (2) place no further orders with subcontractors related to the Project; (3) take commercially reasonable actions to suspend all orders and subcontracts; (4) protect and maintain the work on the Project; and (5) otherwise mitigate Bonneville's costs and liabilities for the areas of work suspended. The ISO will not invoice Bonneville pursuant to Section 4(c) of this Agreement for any milestone payment following the issuance of a Notice to Suspend Work. To the extent a Notice of Resolution is issued pursuant to Section 2(b), the Notice to Suspend Work in effect at the time shall be deemed withdrawn and the ISO shall be entitled to invoice Bonneville for any milestone completed as specified in Section 4(c) of this Agreement and Bonneville shall pay such invoice pursuant to Section 4.
- (d) Any time after thirty (30) calendar days from the date of the Notice of Intent to Terminate under Section 2(b), issued by either Party, and prior to the date of a Notice of Resolution, the ISO may terminate this Agreement by providing written notice to Bonneville that it is terminating this Agreement

("Termination Notice") effective immediately. The ISO may terminate this Agreement under the terms of this Section 2(d) at its sole discretion for any reason.

Any time after thirty (30) calendar days from the date of the Notice of Intent to Terminate under Section 2(b), issued by either Party, and prior to the date of a Notice of Resolution, Bonneville may terminate this Agreement by providing written notice to the ISO that it is terminating this Agreement ("Termination Notice") effective immediately. Bonneville may terminate this Agreement under the terms of this Section 2(e) at its sole discretion for any reason.

- (e) In the event this Agreement is terminated by either or both of the Parties pursuant to its terms, this Agreement will become wholly void and of no further force and effect, without further action by either Party, and the liabilities and obligations of the Parties hereunder will terminate, and each Party shall be fully released and discharged from any liability or obligation under or resulting from this Agreement as of the date of the Termination Notice provided in Section 2(d) or 2(e), as applicable, notwithstanding the requirement for the ISO to submit the filing specified in Section 2(g). Notwithstanding the foregoing, the rights and obligations set forth in Sections 5 and 6 shall survive the termination of this Agreement and remain in full force and effect as specified in Sections 5 and 6, and any milestone payment obligation pursuant to Section 4(c) that arose prior to the Termination Notice in accordance with Section 2(d) or 2(e) shall survive until satisfied or resolved in accordance with Section 11.
- (f) The Parties acknowledge that the ISO is required to file a notice of termination with FERC.

3. Implementation Scope and Schedule

- (a) The Parties shall complete the Project as described in Exhibit A, subject to modification only as described in Section 4(e) below.
- (b) The Parties shall undertake the activities described in Exhibit A with the objective of completing the Project and implementing the EIM no later than the Implementation Date, including all milestones listed under Exhibit A for the Implementation Date, subject to modification only as described in Section 3(c) below.
- (c) Either Party may propose a change in Exhibit A or the Implementation Date to the other Party. If a Party proposes a change in Exhibit A or the Implementation Date, the Parties shall negotiate in good faith to attempt to reach agreement on the proposal and any necessary changes in Exhibit A and any other affected provision of this Agreement, provided that any change in Exhibit A, or any change to the Implementation Date, must be mutually agreed to by the Parties. The agreement of the Parties to a change in

Exhibit A, or a change to the Implementation Date, shall be memorialized in a revision to Exhibit A, which will then be binding on the Parties and shall be posted on the internet web sites of the ISO and Bonneville, without the need for execution of an amendment to this Agreement. Changes that require revision of any provision of this Agreement other than Exhibit A shall be reflected in an executed amendment to this Agreement and filed with FERC for acceptance.

- (d) At least once per calendar month during the Term, the Parties' Designated Executives, or their designees, will meet telephonically or in person (at a mutually agreed to location) to discuss the status of the performance of the tasks necessary to achieve the milestones in Exhibit A and the continued appropriateness of Exhibit A to ensure that the Project can meet the Implementation Date. For purposes of this section, "Designated Executive" shall mean the individual identified in Section 8(g), or her or his designee or successor.

4. Implementation Charges, Invoicing and Milestone Payments

- (a) As itemized in Section 4(c) below, Bonneville shall pay the ISO a fixed fee of \$1,870,000 for costs incurred by the ISO to implement the Project ("Implementation Fee"), subject to completion of the milestones specified in Section 4(c) and subject to adjustment only as described in Section 4(b).
- (b) The ISO will provide prompt written notice to Bonneville when the sum of its actual costs through the date of such notice and its projected costs to accomplish the balance of the Project exceed the Implementation Fee. The Implementation Fee shall be subject to adjustment only by mutual agreement of the Parties if the Parties agree to a change in Exhibit A, or a change to the Implementation Date, in accordance with Section 3(c) and the Parties agree that an adjustment to the Implementation Fee is warranted in light of such change.
- (c) For each milestone described in Exhibit A, the ISO shall invoice Bonneville for 1/6th of the Implementation Fee as follows:
 - (1) \$311,650 upon the Effective Date as described in Section 1 of this Agreement for Milestone 1;
 - (2) \$311,650 upon completion of detailed Project Management Plan for Milestone 2;
 - (3) \$311,650 upon ISO promotion of market model including the Bonneville area market data to the market simulation non-production system, and allowing Bonneville to start connectivity testing and exchange data in advance of market simulation for Milestone 3;

- (4) \$311,650 upon the conclusion of day-in-life simulation, and start of EIM market simulation for Milestone 4;
 - (5) \$311,700 upon the start of full 24/7 parallel operations for Milestone 5; and
 - (6) \$311,700 upon the first production Bonneville EIM trade date for Milestone 6.
- (d) Following the completion of each milestone identified in Section 4(c)(i) through (vi), the ISO will deliver to Bonneville an invoice which will show the amount due. The invoice shall contain information specified in 5 C.F.R. § 1315.9(b) and shall contain reasonable documentation supporting the completion of the milestone being invoiced. Bonneville shall pay the invoice no later than forty-five (45) calendar days after the date of receipt. Any milestone payment past due will accrue interest, per annum, calculated in accordance with 5 C.F.R. § 1315.10.
- (e) If a milestone has not been completed as described in Section 4(c)(i), (ii), (iii), (iv), or (v) and in Exhibit A, as Exhibit A may have been modified in accordance with Section 3(c), the Parties shall negotiate in good faith an agreed upon change to the Project Delivery Dates (as defined in Exhibit A) consistent with Section 3(c) such that the timing of milestone payments in Section 4(c) can be adjusted to correspond to the updated Exhibit A.
- (f) If Bonneville disputes any portion of any amount specified in an invoice delivered by the ISO in accordance with Section 4(c), Bonneville shall pay its total amount of the invoice when due, and identify the disputed amount and state that the disputed amount is being paid under protest. Any disputed amount shall be resolved pursuant to the provisions of Section 11. If it is determined pursuant to Section 11 that an overpayment or underpayment has been made by Bonneville or any amount on an invoice is incorrect, then (i) in the case of any overpayment, the ISO shall promptly return the amount of the overpayment (or credit the amount of the overpayment on the next invoice) to Bonneville; and (ii) in the case of an underpayment, Bonneville shall promptly pay the amount of the underpayment to the ISO. Any overpayment or underpayment shall include interest for the period from the date of overpayment, underpayment, or incorrect allocation, until such amount has been paid or credited against a future invoice calculated in the manner prescribed for calculating interest in Section 4(d).
- (g) All costs necessary to implement the Project not provided for in this Agreement shall be borne separately by each Party, which in the case of the ISO will be recovered through rates as may be authorized by its regulatory authorities.

- (h) All milestone payments required to be made under the terms of this Agreement shall be made to the account or accounts designated by the Party which the milestone payment is owed, by wire transfer (in immediately available funds in the lawful currency of the United States).

5. Confidentiality

- (a) All written or oral information received from the other Party in connection with this Agreement (but not this Agreement after it is filed with FERC) necessary to complete the Project and marked or otherwise identified at the time of communication by such Party as containing information that Party considers commercially sensitive or confidential shall constitute “Confidential Information” subject to the terms and conditions herein.
- (b) If Bonneville publicly releases Bonneville’s Confidential Information in connection with a public process or a regulatory filing, or if the ISO publicly releases the ISO’s Confidential Information in connection with a public process or a regulatory filing, then the information released shall no longer constitute Confidential Information; provided, however, that Confidential Information disclosed under seal (or in such other manner as to be treated confidentially) in connection with a regulatory filing shall retain its status as Confidential Information under this Agreement. In addition, Confidential Information does not include information that (i) is or becomes generally available to the public other than as a result of disclosure by either Party, its officers, directors, employees, agents, or representatives; (ii) is or becomes available to such Party on a non-confidential basis from other sources or their agents or representatives when such sources are not known by such Party to be prohibited from making the disclosure; (iii) is already known to such Party or has been independently acquired or developed by such Party without violating any of such Party's obligations under this Section 5; (iv) is the subject of a mutual written agreement between the Parties, including an agreement evidenced through an exchange of electronic or other communications, with regard to information for discussion at any stakeholder meetings or during the stakeholder process or with any regulatory authority; or (v) is the subject of a mutual written agreement between the Parties, including an agreement evidenced through an exchange of electronic or other communications, to allow for such disclosure and designation as non-confidential or public information on a case-by-case basis in accordance with Section 10 of this Agreement.
- (c) The Confidential Information will be kept confidential by each Party and each Party agrees to protect the Confidential Information using the same degree of care, but no less than a reasonable degree of care, as a Party uses to protect its own confidential information of a like nature. Notwithstanding the preceding sentence, a Party may disclose the Confidential Information or portions thereof to those of such Party's officers, employees, partners, representatives, attorneys, contractors, advisors, or agents who need to know such information for the purpose of analyzing or performing an obligation

related to the Project. Notwithstanding the foregoing, a Party is not authorized to disclose such Confidential Information to any officers, employees, partners, representatives, attorneys, contractors, advisors, or agents without (i) informing such officer, employee, partner, representative, attorney, contractor, advisor, or agent of the confidential nature of the Confidential Information and (ii) ensuring that such officer, employee, partner, representative, attorney, contractor, advisor, or agent is subject to confidentiality duties or obligations to the applicable Party that are no less restrictive than the terms and conditions of this Agreement. Each Party agrees to be responsible for any breach of this Section 5 by such Party or a Party's officers, employees, partners, representatives, attorneys, contractors, advisors or agents, subject to the limitations set forth in Section 6 below.

- (d) In the event that a Party is required by a court of competent jurisdiction, applicable law, including, but not limited to, the Freedom of Information Act, 5 U.S.C. § 552, or regulatory authority (by rule, regulation, order, deposition, interrogatory, request for documents, data request issued by a regulatory authority, subpoena, civil investigative demand or similar request or process) to disclose any of the Confidential Information, such Party shall (to the extent legally permitted) provide the other Party with prompt written notice of such requirement so that the other Party may seek a protective order or other appropriate remedy and/or waive compliance with the terms of this Section 5. In the event that such protective order or other remedy is not obtained, the disclosing Party hereby waives compliance with the provisions hereof with respect to such Confidential Information. In such event, the Party compelled to disclose shall (i) furnish only that portion of the Confidential Information which is legally required to be furnished, and (ii) exercise reasonable efforts to obtain assurances that confidential treatment will be accorded the Confidential Information so furnished.
- (e) Either Party may seek damages or other remedies permitted by applicable law if a Party breaches this Section 5, however, the Parties will first seek to resolve any dispute regarding disclosure arising under this Section 5 by mutual agreement, subject to the limitations set forth in Section 6 below.
- (f) Upon written request by a Party, the other Party shall promptly return to the requesting Party or destroy all Confidential Information it received as allowed by law, including all copies of its analyses, compilations, studies or other documents prepared by or for it, that contain the Confidential Information in a manner that would allow its extraction or that would allow the identification of the requesting Party as the source of the Confidential Information or inputs to the analysis. Notwithstanding the foregoing, a Party shall not return or destroy the other Party's Confidential Information if a third party is seeking such information under section 5(d) of this Agreement, and neither Party shall be required to destroy or alter any computer archival and backup tapes or archival and backup files (collectively, "Computer Tapes"), provided that such Computer Tapes shall be kept confidential in accordance with the terms of this Agreement.

- (g) Nothing in this Agreement shall be deemed to restrict either Party from engaging with third parties with respect to any matter and for any reason, specifically including the EIM, provided Confidential Information is treated in accordance with this Section 5.
- (h) This Section 5, Confidentiality, applies for two years (24 months) after the Termination Date or the date of any expiration or termination of this Agreement.

6. Limitation of Liability

- (a) The Parties acknowledge and agree that, except as otherwise specified in Sections 4(f) and 6 (b) of this Agreement, neither Party shall be liable to the other Party for any claim, loss, cost, liability, damage or expense, including any direct damage or any special, indirect, exemplary, punitive, incidental or consequential loss or damage (including any loss of revenue, income, profits or investment opportunities or claims of third party customers), arising out of or directly or indirectly related to such other Party's decision to enter into this Agreement, such other Party's performance under this Agreement, or any other decision by such Party with respect to the Project.
- (b) Claims for property damage, personal injury and death against the United States must be brought under the Federal Tort Claims Act, 28 U.S.C. 2671 et seq. Within the limitations of applicable law, the ISO shall be responsible for injuries and damages to third-parties caused by its negligence, intentional misconduct, or breach of this Agreement.
- (c) The rights and obligations under this Section 6 shall survive the Termination Date and any expiration or termination of this Agreement.

7. Representation and Warranties

- (a) Representations and Warranties of Bonneville. Bonneville represents and warrants to the ISO as of the Effective Date as follows:
 - (1) It is duly formed under federal law.
 - (2) It has all requisite statutory authority necessary to carry on its business as now being conducted or as proposed to be conducted under this Agreement.
 - (3) It has all necessary statutory authority to execute and deliver this Agreement and to perform its obligations under this Agreement, and the execution and delivery of this Agreement and the performance by it of this Agreement have been duly authorized.

- (4) The execution and delivery of this Agreement and the performance by it of this Agreement do not: (i) violate its organic statutes; (ii) violate any governmental requirements applicable to it; or (iii) result in a breach of or constitute a default of any material agreement to which it is a party.
 - (5) This Agreement has been duly and validly executed and delivered by it and constitutes its legal, valid and binding obligation enforceable against it in accordance with its terms.
- (b) Representations and Warranties of the ISO. The ISO represents and warrants to Bonneville as of the Effective Date as follows:
- (1) It is duly formed, validly existing and in good standing under the laws of the jurisdiction of its formation.
 - (2) It has all requisite corporate power necessary to own its assets and carry on its business as now being conducted or as proposed to be conducted under this Agreement.
 - (3) It has all necessary corporate power and authority to execute and deliver this Agreement and to perform its obligations under this Agreement, and the execution and delivery of this Agreement and the performance by it of this Agreement have been duly authorized by all necessary corporate action on its part.
 - (4) The execution and delivery of this Agreement and the performance by it of this Agreement do not: (i) violate its organizational documents; (ii) violate any governmental requirements applicable to it; or (iii) result in a breach of or constitute a default of any material agreement to which it is a party.
 - (5) This Agreement has been duly and validly executed and delivered by it and constitutes its legal, valid and binding obligation enforceable against it in accordance with its terms, except as the same may be limited by bankruptcy, insolvency, regulatory authority, or other similar laws affecting creditors' rights generally and by principles of equity regardless of whether such principles are considered in a proceeding at law or in equity.
 - (6) All material governmental authorizations in connection with the due execution and delivery of, and performance by it of its obligations under this Agreement, have been duly obtained or made prior to the date hereof and are in full force and effect.

8. General Provisions

- (a) This Agreement, including Exhibit A and Exhibit B to this Agreement, constitutes the entire agreement between the Parties, and supersedes any prior written or oral agreements or understandings between the Parties, relating to the subject matter of this Agreement; provided, that nothing in this Agreement shall limit, repeal, or in any manner modify the existing legal rights, privileges, and duties of each of the Parties as provided by any other agreement between the Parties, or by any statute or any other law or applicable court or regulatory decision by which such Party is bound.
- (b) This Agreement may not be amended except in writing hereafter signed by both of the Parties; provided, however, the Parties may mutually agree to changes in Exhibit A in accordance with Section 4(e).
- (c) Any waiver by a Party to this Agreement of any provision or condition of this Agreement must be in writing signed by the Party to be bound by such waiver, shall be effective only to the extent specifically set forth in such writing and shall not limit or affect any rights with respect to any other or future circumstance.
- (d) This Agreement is for the sole and exclusive benefit of the Parties and shall not create a contractual relationship with, or cause of action in favor of, any third party.
- (e) Neither Party shall have the right to voluntarily assign its interest in this Agreement, including its rights, duties, and obligations hereunder, without the prior written consent of the other Party, which consent may be withheld by the other Party in its sole and absolute discretion. Any assignment made in violation of the terms of this Section 8(e) shall be null and void and shall have no force and effect.
- (f) In the event that any provision of this Agreement is determined to be invalid or unenforceable for any reason, in whole or part, the remaining provisions of this Agreement shall be unaffected thereby and shall remain in full force and effect to the fullest extent permitted by law, and such invalid or unenforceable provision shall be replaced by the Parties with a provision that is valid and enforceable and that comes closest to expressing the Parties' intention with respect to such invalid or unenforceable provision.
- (g) Whenever this Agreement requires or provides that (i) a notice be given by a Party to the other Party or (ii) a Party's action requires the approval or consent of the other Party, such notice, consent or approval shall be given in writing and shall be given by personal delivery, by recognized overnight courier service, email or by certified mail (return receipt requested), postage prepaid, to the recipient thereof at the address given for such Party as set forth below, or to such other address as may be designated by notice given by any Party to the other Party in accordance with the provisions of this Section 8(g):

To Bonneville:
Bonneville Power Administration
P.O. Box 3621
Portland, OR 97208-3621
Attention: Steve Kerns, Director Grid Modernization and EIM
Email: srkerns@bpa.gov
To the ISO:

California Independent System Operator Corporation
250 Outcropping Way
Folsom, CA 95630
Attention: Petar Ristanovic, Vice President, Technology
Email: PRistanovic@caiso.com

Each notice, consent or approval shall be conclusively deemed to have been given (i) on the day of the actual delivery thereof, if given by personal delivery, email sent by 5:00 p.m., or overnight delivery, or (ii) date of delivery shown on the receipt, if given by certified mail (return receipt requested). It is the responsibility of each Party to provide, in accordance with this Section, notice to the other Party of any necessary change in the contact or address information herein.

- (h) This Agreement may be executed in one or more counterparts (including by facsimile or a scanned image), each of which when so executed shall be deemed to be an original, and all of which shall together constitute one and the same instrument.
- (i) Nothing contained in this Agreement shall be construed as creating a corporation, company, partnership, association, joint venture or other entity with the other Party, nor shall anything contained in this Agreement be construed as creating or requiring any fiduciary relationship between the Parties. No Party shall be responsible hereunder for the acts or omissions of the other Party.
- (j) The decision to execute an EIM service agreement and participate in the EIM remains within the sole discretion of Bonneville and the decision whether to continue to offer EIM services (subject to Sections 1(c) and 2) remains within the sole discretion of the ISO.
- (k) Nothing in this Agreement shall preclude a Party from exercising any rights or taking any action (or having its affiliates take any action) with respect to any other project.
- (l) Unless otherwise expressly provided, for purposes of this Agreement, the following rules of interpretation shall apply: (i) any reference in this Agreement to gender includes all genders, and the meaning of defined terms applies to both the singular and the plural of those terms; (ii) the insertion of headings are for convenience of reference only and do not affect, and will not

be utilized in construing or interpreting, this Agreement; (iii) all references in this Agreement to any "Section" are to the corresponding Section of this Agreement unless otherwise specified; (iv) words such as "herein," "hereinafter," "hereof," and "hereunder" refer to this Agreement (including Exhibit A to this Agreement) as a whole and not merely to a subdivision in which such words appear, unless the context otherwise requires; (v) the word "including" or any variation thereof means "including, without limitation" and does not limit any general statement that it follows to the specific or similar items or matters immediately following it; and (vi) the Parties have participated jointly in the negotiation and drafting of this Agreement and, in the event an ambiguity or question of intent or interpretation arises, this Agreement shall be construed as jointly drafted by the Parties and no presumption or burden of proof favoring or disfavoring any Party will exist or arise by virtue of the authorship of any provision of this Agreement.

9. Governing Law; Venue

This Agreement shall be governed by, and construed and interpreted in accordance with, federal law. Venue for any action hereunder shall be FERC, where subject to its jurisdiction, or otherwise any federal court with jurisdiction.

10. Communication

The Parties shall develop a communication protocol for the dissemination of material information associated with the Project, which shall be approved by Bonneville and the ISO.

11. Dispute Resolution

Unless otherwise provided herein, each of the provisions of this Agreement shall be enforceable independently of any other provision of this Agreement and independent of any other claim or cause of action. In the event of any dispute arising under this Agreement, the Parties shall, to the extent practicable, first attempt to resolve the matter through direct good faith negotiation between the Parties, including a full opportunity for escalation to executive management within the Parties' respective organizations. If the Parties are unable to resolve the issue within thirty (30) calendar days after such escalation of the dispute, then for matters subject to FERC jurisdiction either Party shall have the right to file a complaint under Section 206 of the Federal Power Act. For all other matters, the Parties may pursue litigation in a federal court with jurisdiction over the Parties.

12. Third Party Agreements

The Parties may engage in discussions with third parties, either jointly or unilaterally, to facilitate the Project. Each Party may adopt or modify tariffs or enter into or modify binding agreements between such Party and third parties to implement the approved terms and conditions of the Project or EIM as necessary and appropriate.

13. Compliance

- (a) Each Party shall comply with all applicable federal, state, local or municipal governmental authority; any governmental, quasi-governmental, regulatory or administrative agency, commission, body or other authority entitled to exercise any administrative, executive, judicial, legislative, policy, regulatory or taxing authority or power, including FERC, NERC, WECC; or any court or governmental tribunal, having jurisdiction over the Party in connection with the execution, delivery and performance of its obligations under this Agreement.
- (b) This Agreement is not intended to modify, change or otherwise amend the Parties' current functional responsibilities associated with compliance with WECC and NERC Reliability Standards; provided, however, the Parties may enter into separate mutually agreed to arrangements to clarify roles and responsibilities associated with compliance with WECC and NERC Reliability Standards in respect of this Agreement.

14. Bonneville's EIM Implementation and Participation Principles

The Parties recognize the following principles regarding implementation of the Project and Bonneville's potential participation in the EIM.


- (a) **Statutory, Regulatory, and Contractual Requirements**
Bonneville's EIM implementation and participation will be consistent with its statutory, regulatory, and contractual requirements.
- (b) **Voluntary Market Participation**
Bonneville's EIM participation will include voluntary market entry and exit, voluntary bid and offer volumes and pricing, voluntarily making transmission available for EIM Transfers and the ability to voluntarily forego engaging in EIM Transfers in one or more specified operating intervals consistent with the ISO tariff and the Bonneville Tariff.
- (c) **Reliability and Operation of the Federal Power and Transmission Systems**
Bonneville will continue to be responsible for the reliable operation of the Federal Columbia River Power System and the Federal Columbia River Transmission System. Notwithstanding the ISO's resource sufficiency requirements for the EIM, Bonneville will retain the exclusive right to determine what is required to maintain reliability within its balancing authority area and on its transmission system. The Parties will work in good faith during implementation to ensure that Bonneville's EIM participation will not interfere with Bonneville's existing reliability tools.
- (d) **Federal Generation Participation**
Bonneville may utilize the ISO's resource aggregation models to participate in the EIM as permitted by the ISO's Business Practice Manuals. If Bonneville chooses to use an available resource aggregation model, Bonneville will identify its aggregated participating resources, aggregated non-participating resources, and other resources in the ISO's master file.

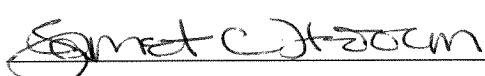
- (e) **Automation Support**
In order to effectively participate in the EIM and ensure both reliable and economic outcomes, Bonneville will endeavor during implementation to automate interactions with existing EIM user interfaces based on the ISO's technical specifications. The ISO will assist Bonneville based on jointly determined requirements, feasibility and cost by 1) providing Application Programming Interfaces to interactions with existing EIM user interfaces, and 2) system or tool enhancements as jointly agreed.
- (f) **Greenhouse Gas Attributes**
If Bonneville elects to allow its EIM transfers to be delivered to California, the transfers will be consistent with the Cap and Trade program administered by the California Air Resources Board, which may include Bonneville's status as an Asset Controlling Supplier.
- (g) **Base Schedule Submission Timeframes**
Prior to the Implementation Date, the ISO will pursue, involving Bonneville and other stakeholders, moving the market closing timeline for financially binding hourly resource plans from T-40 to T-30. In addition, the ISO will explore with Bonneville and other stakeholders other potential enhancements to the EIM fifteen minute market timelines.
- (h) **Consideration of Other EIM Enhancements**
Prior to the Implementation Date, Bonneville will propose in the appropriate ISO process(es) or forum(s), and the ISO will consider, certain EIM enhancements that:
- (1) improve the accuracy of hourly resource plans;
 - (2) permit resource sufficiency obligation transfers, *e.g.*, bid range transfers;
 - (3) improve the flexible ramping sufficiency test through various mechanisms, including but not limited to incorporation of renewable generation forecasts into the flexible ramping requirement computation; and
 - (4) increase transparency of data required for the validation of EIM settlement statements.

IN WITNESS WHEREOF, each of the Parties has caused its duly authorized officer to execute this Implementation Agreement as of the date first above written.

CALIFORNIA INDEPENDMENT SYSTEM
OPERATOR CORPORTAION

UNITED STATES OF AMERICA
Department of Energy
Bonneville Power Administration

By: 

By: 

Name: Peter Ristanovic
(Print/Type)

Name: Janet C. Herrin
(Print/Type)

Title: Vice President, Technology

Title: Chief Operating Officer

Date: 9/26/19

Date: 9/26/19

**EXHIBIT A
PROJECT SCOPE AND SCHEDULE**

The Project consists of the activities and delivery dates identified in this Exhibit A, implemented in accordance with the Agreement. The Parties have included a schedule for the Implementation Date to coordinate their efforts required for completion of the Project on a milestone track.

The ISO shall invoice Bonneville for each of the milestones described below pursuant to section 4(c) of the Agreement.

The Parties understand that input received from stakeholders during the course of implementing the Project, conditions imposed or questions raised in the regulatory approval process, and the activities of the Parties in implementing the Project may cause the Parties to determine that changes in the Project are necessary or desirable. Accordingly, this Exhibit A may be modified in accordance with Section 3(c) of the Agreement.

Each Party is responsible for performing a variety of tasks necessary to achieve the milestones on the scheduled dates specified in the table below (“Timeframe”) and shall plan accordingly. The Parties shall communicate and coordinate as provided in the Agreement to support the planning and execution to complete the Project.

Project Scope and Milestones	Timeframe
<p>Milestone 1 – Effective Date Upon the Effective Date of the Implementation Agreement as described in Section 1 of this Agreement.</p>	September 2019 – December 2019
<p>Milestone 2—Detailed Project Management Plan The Parties will develop and initiate a project management plan that describes specific project tasks each Party must perform, delivery dates, project team members, meeting requirements, and a process for approving changes to support completion of the Project. This phase will include a detailed IT system review to assist Bonneville in development of a detailed metering plan, bidding and billing system(s), and coordination with Bonneville EMS upgrade(s). Work will be initiated on the Bonneville staff training program using the foundational and detailed system computer-based training modules, as well as on the resource data templates needed during Milestone 2.</p>	October 2019- April 2020
<p>Milestone 3— System Implementation and Connectivity Testing for Market Model Upon ISO promotion of market network model including the Bonneville area to the non-production system, and allowing Bonneville to connect and exchange data in advance of market simulation.</p>	May 2020- June 2021

Project Scope and Milestones	Timeframe
<p>Milestone 4— Market Simulation Completion of day-in-life simulation, and start of market simulation scenarios.</p>	<p>June 2021- November 2021</p>
<p>Milestone 5— Start of Parallel Operations The ISO will activate a parallel operation environment to practice production grade systems integration as well as market processes and operating procedures in anticipation of the impending Bonneville activation as an EIM Entity and to confirm compliance with the EIM readiness criteria set forth in the ISO tariff. This milestone will include the following:</p> <ul style="list-style-type: none"> • Staged Weekday/Weekend/Weeknight (in progressive sequence) operations with considerations of minimum support during holiday periods; and • Full 24/7 operations. 	<p>December 2021- February 2022</p>
<p>Milestone 6—Final preparation for System Deployment and Go Live with a target of no later than 3/2/2022 This milestone will include resource registration, operating procedures and updates, execution of service agreements, completion of the Bonneville tariff process, applicable board approvals, the filing and acceptance of service agreements and tariff changes with FERC, and completion and filing of a readiness criteria certification in accordance with the ISO tariff.</p>	<p>February 2022- March 2022</p>

EXHIBIT B
FEDERAL GOVERNMENT CONTRACT PROVISIONS

This Exhibit B contains federal government contract provisions that are necessary for Bonneville to enter into the Agreement.

1. Covenant Against Contingent Fees

Each of the Parties warrants to each of the other Parties that no person or selling agency has been employed or retained by it to solicit or secure the Agreement upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, excepting bona fide employees or bona fide established commercial or selling agencies maintained by any Party for the purpose of securing business. For breach or violation of this warranty by any Party other than Bonneville, Bonneville will have the right to annul the contract without liability or in its discretion to deduct from the contract price or consideration the full amount of such commission, percentage, brokerage, or contingent fee.

2. Contract Work Hours and Safety Standards

The Agreement, to the extent that it is of a character specified in Section 103 of the Contract Work Hours and Safety Standards Act (Act), 40 U.S.C. § 3701, as amended or supplemented, is subject to the provisions of the Act, 40 U.S.C. §§ 3701-3708, as amended or supplemented, and to regulations promulgated by the Secretary of Labor pursuant to the Act.

3. Equal Opportunity Employment Practices

Section 202 of Executive Order No. 11246, 30 Fed. Reg. 12319 (1965), as amended by Executive Order No. 12086, 43 Fed. Reg. 46501 (1978), as amended or supplemented, which provides, among other things, that the Parties will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin, is incorporated herein by reference the same as if the specific language had been written into the contract.

4. Use of Convict Labor

The Parties agree not to employ any person undergoing sentence of imprisonment in performing the Agreement except as provided by 18 U.S.C. § 3622(c), as amended or supplemented, and Executive Order No. 11755, 39 Fed. Reg. 779 (1973), as amended or supplemented.

