

Richard Devlin
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Washington



Northwest Power and Conservation Council

Bo Downen
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Jim Yost
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Jeffery C. Allen
Idaho

June 9, 2020

DECISION MEMORANDUM

TO: Council Members

FROM: Ben Kujala, Power Division Director

SUBJECT: Renewal of Advisory Committee Charters

PROPOSED ACTION: Staff recommends the Council renew, for a period of two years, the charters for the seven (7) Council advisory committees identified below:

- Demand Response Advisory Committee
- Demand Forecasting Advisory Committee
- Conservation Resources Advisory Committee
- Generating Resources Advisory Committee
- Natural Gas Advisory Committee
- Resource Adequacy Advisory Committee
- System Analysis Advisory Committee

SIGNIFICANCE: Under Section 4(a)(4) of the Northwest Power Act, the terms of the Federal Advisory Committee Act (FACA) apply to the extent appropriate to the Council's advisory committees. Pursuant to FACA, a formal charter is required for each advisory committee to meet, and the charters terminate two years after the effective date, unless renewed. The charters for each of these seven advisory committees were last renewed in June of 2018; therefore, renewal is necessary for the Council to continue to utilize these advisory committees throughout the development of the 2021 Power Plan.

BUDGETARY/ECONOMIC IMPACTS

Each charter includes the estimated costs to the Council for organizing and chairing the advisory committee meetings, including preparation of agendas, meeting materials and minutes, along with any teleconference and video meeting support that is necessary.

BACKGROUND

The Northwest Power Act authorizes the Council to establish such voluntary advisory committees as it determines are necessary or appropriate to assist in its development of the regional power plan and in carrying out its other functions and responsibilities.

ANALYSIS

The Council has utilized these seven advisory committees to provide feedback and advice on a range of technical issues regarding implementation of the Seventh Power Plan and development of the 2021 Power Plan. Staff believes these advisory committees will continue to provide valuable input to the Council as it develops the 2021 Power Plan, and, therefore, seeks to renew their charters.

Attached are copies of the seven charters for renewal, with proposed updates reflected in track-changes. Minor updates are proposed to improve the processes around membership management and to align the minutes and travel reimbursement sections with the minutes and travel and per diem provisions of the Council's Advisory Committee Policy. The proposed updates regarding membership management were based on staff's recent experience chairing and organizing committees.

The charters, apart from the Resource Adequacy Advisory Committee (RAAC), are substantively alike, and, therefore so are the proposed updates. The RAAC charter is unique as the RAAC is structured differently than the other advisory committees being composed of both a steering and a technical committee, with a co-chair from the Council and the Bonneville Power Administration; nonetheless, the updates proposed for its charter are consistent with the updates reflected in the other charters. All charters have been prepared in accordance with the Northwest Power Act, FACA and the Council's policy on advisory committees.

Also attached are draft membership lists for each advisory committee for the Council's review to ensure the committees include, to the extent feasible, representatives of various regional, state, local and tribal governments, consumer groups and customers. With the exception of the RAAC, the Executive Director will ultimately approve the advisory committee members, ensuring final membership is fairly balanced at that time, Staff anticipates finalizing the membership in June, pending charter renewal. For the RAAC, the Council must approve the members of each RAAC committee, and staff anticipates bringing the RAAC membership list back to the Council in July for approval. In addition to committee members, each advisory committee has a number of interested parties that track and participate in committee meetings.

ALTERNATIVES

The Council could obtain advice and input by soliciting feedback individually rather than meeting collectively as an advisory committee. However, that approach would lack transparency and the benefits accrued from hosting an interactive, collaborative discussion in committee meetings.

ATTACHMENTS

Proposed charters and draft membership lists for:

- Demand Response Advisory Committee
- Demand Forecasting Advisory Committee
- Conservation Resources Advisory Committee
- Generating Resources Advisory Committee
- Natural Gas Advisory Committee
- Resource Adequacy Advisory Committee
- System Analysis Advisory Committee

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CHARTER OF THE CONSERVATION RESOURCES ADVISORY COMMITTEE

1. **Official Designation:** This advisory committee will be known as the Northwest Power and Conservation Council's Conservation Resources Advisory Committee.
2. **Background:** The Pacific Northwest Electric Power Planning and Conservation Act, P.L. 96-501, 16 U.S.C. §839 et seq. (Act), in Section 4(e)(1), requires the Pacific Northwest Electric Power and Conservation Planning Council (Council) to prepare and adopt a regional conservation and electric power plan that gives priority to resources that the Council determines to be cost-effective. To determine the cost-effectiveness of new resources, it is necessary to estimate the performance, cost, and availability of new resources potentially available to the region. The Conservation Resources Advisory Committee will assist in the development of reasonable estimates of the performance, cost, and availability of new conservation resources and improvements to the efficiency of the electric power system.

In order to facilitate the development of those resources that the Council determines to be desirable components of the region's future resource mix, the Council must also understand barriers that may exist to the development of these resources, and policies and actions that might be implemented to resolve these barriers. Such policies and actions constitute the research and development element of the power plan called for in the Act. The Conservation Resources Advisory Committee will assist the Council in the identification of barriers to the development of resources and policies and actions to address these barriers.

This advisory committee is established as part of a network of advisory committees satisfying the Council's obligation under the Act to establish a Scientific and Statistical Advisory Committee.

Section 4(c)(11). Under Section 4(a)(4) of the Act, the terms of the Federal Advisory Committee Act, 5 U.S.C. Appendix I, Sections 1-14, apply "to the extent appropriate" to the Council's advisory committees.

3. **Objectives and Scope of Activity:** The Conservation Resources Advisory Committee will advise the Council during the update and implementation of the regional Power Plan by:
 - (A) Assisting the Council in assessing: 1) the current performance, cost and availability of conservation resources; 2) technology development trends; and 3) the effect of these trends on the future performance, cost and availability of conservation resources.
 - (B) Assisting the Council in identifying technical, cost, environmental, institutional and other barriers to the development of conservation resources.

- (C) Assisting the Council in developing policies and actions to resolve barriers to the development of conservation resources.
 - (D) Assisting the Council by providing feedback and suggestions for improving the effectiveness of the conservation resource development programs and activities in the region. Assisting the Council in implementing elements of the Seventh Plan conservation action plan.
 - (E) Assisting the Council in development of the Eighth Plan's assessment of regional conservation potential
 - (F) Assisting the Council in development of the Eighth Plan's conservation action plan
4. Official to Whom the Advisory Committee Reports: The Conservation Resources Advisory Committee will report to the Council's Executive Director.
 5. Authority of the Advisory Committee: The Conservation Resources Advisory Committee will serve in an advisory capacity only. Neither the Committee nor its members are authorized to make statements or commitments on behalf of the Council. Non-staff members of the Committee are not Council employees.
 6. Estimated Annual Operating Costs in Dollars and Person-Days: One-thousand dollars (\$1,000) per year for travel, teleconference and video conference meetings support; two thousand dollars (\$2,000) per year contracted services for minutes; and six staff days to organize and attend committee meetings.
 7. Advisory Committee Members: Every two years, the chair of the advisory committee, in consultation with the Director of the Power Planning Division will solicit technical experts to participate on the advisory committee from a wide range of regional stakeholders. The Council's Executive Director shall approve the participants and, in doing so, shall ensure that membership of the advisory committee is fairly balanced in terms of the points of view represented and the functions to be performed by the advisory committee.

Committee members shall be selected based primarily on their technical expertise and experience. Members may include representatives from electric and gas public and private utilities, experts in the regional economy, state energy offices, Bonneville Power Administration, the Energy Trust of Oregon, non-utility program implementers, state utility regulatory offices, trade associations, energy efficiency industry firms, public interest groups, and the general public. All committee members serve at the pleasure of the Council.

If a member is unable to complete the two year term, the organization the member is affiliated with may designate another person to serve for the remainder of the original member's term. All replacement members must be approved by the Director of the Power Planning Division. ~~Executive Director of the Council. The Executive Director shall be responsible for ensuring Council members are timely notified of any such replacement members.~~

If a request for membership is submitted during the two year term by a person or organization that is not currently represented on the Committee, that request for membership must be approved by the Executive Director, with input from the Director of the Power Planning Division. The Council will be timely notified of the updated membership.

If a member is unable to attend a particular committee meeting, that member may designate another person from his/her organization to attend in his/her place. Members may also participate in committee meetings electronically/remotely via webinar or telephone.

8. Advisory Committee Management Officer: The Advisory Committee Management Officer (Management Officer) for the Conservation Resources Advisory Committee will be the Director

of the Council's Power Planning Division.

9. Chair:

- (A) The Chair of the Conservation Resources Advisory Committee will be selected by the Executive Director of the Council.
- (B) The Chair may be called upon to report to the Executive Director of the Council on appropriate matters, including the Advisory Committee's progress on the tasks described in Part 3 of this Charter.
- (C) The duties of the Chair will include presiding over Conservation Resources Advisory Committee meetings, setting agendas for such meetings, ensuring that detailed minutes of such meetings are prepared and submitted to the Executive Director of the Council in a timely manner, and maintaining communication between the Committee and the Council's staff.
- (D) The Chair will certify detailed minutes of meetings of the Conservation Resources Advisory Committee. The minutes should include a time, date, and place of meeting; a list of persons present at the meeting, including advisory committee members, staff, Council members and members of the public who presented oral or written statements; an complete and accurate description-summary of matters discussed, conclusions reached, and actions taken; ~~persons invited to meet with the Committee, and persons in attendance. The minutes also will include~~ and, copies of written statements made by members of the public, reports received, issued or approved by the Committee. Minutes of meetings will be prepared and released within ten days of the meeting, unless the Management Officer grants an extension. The Chair will post the minutes of each meeting on the Committee meeting agenda webpage. distribute copies of the minutes to members of the Committee and other interested persons.
- (E) Subcommittees or small workgroups of the Conservation Resources Advisory Committee may be established by the Chair of the Committee to undertake particular aspects of the Committee's work. Methods for organizing the work and procedures of the Committee must follow the scope of responsibilities assigned to the Committee by the Council. Council staff will make arrangements for Committee meetings and provide general support services.

10. Vice-Chair:

- (A) The Vice-Chair of the Conservation Resources Advisory Committee will be selected by the Executive Director of the Council.
- (B) The Vice-Chair will perform the duties of the Chair of the Committee in the absence of the Chair, and such other duties as the Chair of the Committee may assign.

11. Rules: The advisory committee rules approved and adopted by the Council on March 17, 1982, as amended from time to time, will apply to the Conservation Resources Advisory Committee to the extent such matters are not covered in this Charter.

12. Estimated Frequency of Committee Meetings: The Chair of the Conservation Resources Advisory Committee, after consultation with the Management Officer, or his or her designee, will call meetings as necessary. It is estimated that two committee meetings over two years will be held. Additional subcommittee meetings may also be held. All meetings will be open to the public, unless closed pursuant to 5 U.S.C. §552b(c). Timely notice of meetings, including agendas, will be made. Interested persons may attend Committee meetings and appear before or file statements with the Committee pursuant to the Council's advisory committee rules and subject to such other rules as the Council may prescribe.

13. Reimbursement of Expenses: For purposes of attending Committee meetings, tThe Council ~~will~~

may reimburse ~~public~~ members of the Conservation Resources Advisory Committee for travel, including per diem in lieu of subsistence, in accordance with the Council's travel ~~regulations~~ policy for contractors and advisory committee members, for the purpose of attending Committee meetings and as authorized by 5 U.S.C. §5703. The Executive Director shall determine who ~~public may receive reimbursement. members are.~~

14. Duration: The Conservation Resources Advisory Committee will terminate two years from the date this Charter is adopted, unless renewed in accordance with the Federal Advisory Committee Act.

This Charter for the Conservation Resources Advisory Committee was approved and adopted at a duly noticed meeting of the Northwest Power and Conservation Council on June 16-17, 2020.

Richard Devlin, Chair

Date Filed: June 2020

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CHARTER OF THE DEMAND FORECASTING ADVISORY COMMITTEE

1. **Official Designation:** This advisory committee will be known as the Northwest Power and Conservation Council's Demand Forecasting Advisory Committee.
2. **Background:** The Pacific Northwest Electric Power Planning and Conservation Act, P.L. 96-501, 16 U.S.C. 839 *et seq.* (Act), in Section 4(e)(3)(D), requires the Pacific Northwest Electric Power and Conservation Planning Council (Council) to develop "a regional conservation and electric power plan." The plan is to include a twenty year forecast of electricity demands and a resource plan for the development of conservation and generation to meet the demand at the lowest cost consistent with adequate and reliable electricity service. The Demand Forecasting Advisory Committee is being formed to assist the Council in its development of the Pacific Northwest Conservation and Electric Power Plan by advising on important assumptions and analyses regarding the future demand for electricity in the region.

This advisory committee is established as part of a network of advisory committees satisfying the Council's obligation under the Act to establish a Scientific and Statistical Advisory Committee. Section 4(c)(11). Under section 4(a)(4) of the Act, the terms of the Federal Advisory Committee Act, 5 U.S.C. Appendix I, sections 1-14, apply "to the extent appropriate" to the Council's advisory committees.

3. **Objectives and Scope of Activity:** The Demand Forecasting Advisory Committee will advise the Council on subjects related to forecasting the region's future demand for electricity and natural gas. The committee will assist the Council in:
 - (A) Evaluating analytical tools and assumptions related to forecasting the demand for electricity;
 - (B) Advising on designing studies related to forecasting the demand for electricity;
 - (C) Identifying sources of information and data about the demand for electricity and its determinants;
 - (D) Identifying significant changes in electricity markets and their implications for the future demand for electricity and the future price of electricity;
 - (E) Reviewing and interpreting other forecasts of future demand for electricity;
 - (F) Reviewing power planning assumptions or studies that may impact the forecast of electricity demand.

- (G) With cooperation from natural gas and dual fuel utilities, start forecasting demand for natural gas end use, consistent with the electricity forecast.
4. Official to Whom the Advisory Committee Reports: The Demand Forecasting Advisory Committee will report to the Council's Executive Director.
 5. Authority of the Advisory Committee: The Demand Forecasting Advisory Committee will serve in an advisory capacity only. Neither the Committee nor its members are authorized to make statements or commitments on behalf of the Council. Non-staff members of the Committee are not Council employees.
 6. Estimated Annual Operating Costs in Dollars and Staff Time: \$8,000 plus one month of staff time.
 7. Advisory Committee Members: Every two years, the chair of the advisory committee, in consultation with the Director of the Power Planning Division will solicit technical experts to participate on the advisory committee from a wide range of regional stakeholders. The Council's Executive Director shall approve the participants and, in doing so, shall ensure that membership of the advisory committee is fairly balanced in terms of the points of view represented and the functions to be performed by the advisory committee.

Committee members shall be selected based primarily on their technical expertise and experience. Members may include representatives from electric and gas public and private utilities, ~~experts in the regional economy,~~ state energy offices, Bonneville Power Administration, the Energy Trust of Oregon, non-utility program implementers, state utility regulatory offices, trade associations, energy efficiency industry firms, public interest groups, and the general public. All committee members serve at the pleasure of the Council.

If a member is unable to complete the two year term, the organization the member is affiliated with may designate another person to serve for the remainder of the ~~original member's~~ term. All replacement members must be approved by ~~the Director of the Power Planning Division. Executive Director of the Council. The Executive Director shall be responsible for ensuring Council members are timely notified of any such replacement members. Director of the Power Planning Division.~~

If a request for membership is submitted during the two year term by a person or organization that is not currently represented on the Committee, that request for membership must be approved by the Executive Director, with input from the Director of the Power Planning Division. The Council will be timely notified of the updated membership.

If a member is unable to attend a particular committee meeting, that member may designate another person from his/her organization to attend in his/her place. Members may also participate in committee meetings ~~electronically~~ remotely via webinar or telephone.

8. Advisory Committee Management Officer: The Advisory Committee Management Officer (Management Officer) for the Demand Forecasting Advisory Committee will be the Director of the Council's Power Planning Division. The Management Officer will designate members of the Council's staff to coordinate and attend meetings of the Committee.
9. Chair:
 - (A) The Chair of the Demand Forecasting Advisory Committee will be selected by the Executive Director of the Council.
 - (B) The Chair may be called upon to report to the Executive Director of the Council on appropriate matters, including the Advisory Committee's progress on the tasks described in Part 3 of this Charter.
 - (C) The duties of the Chair will include presiding over Demand Forecasting Advisory Committee meetings, setting agendas for such meetings, ensuring that detailed minutes of such meetings are

prepared and submitted to the Executive Director of the Council in a timely manner, and maintaining communication between the Committee and the Council's staff.

(D) The Chair will certify detailed minutes of meetings of the Demand Forecast Advisory Committee. The minutes should include time, date, and place of meetings; a list of persons present at the meeting, including advisory committee members, staff, Council members, and members of the public who presented oral or written statements; an ~~complete and~~ accurate description-summary of matters discussed, ~~conclusions reached, and actions taken; and, persons invited to meet with the Committee, and persons in attendance. The minutes also will include~~ copies of written statements made by members of the public, reports received, issued or approved by the Committee. Minutes of meetings will be prepared and released within ten days of the meeting, unless the Management Officer grants an extension. The Chair will ~~distribute post the minutes of each meeting on the Committee meeting agenda webpage. copies of the minutes to members of the Committee and other interested persons.~~

(E) Subcommittees or small workgroups of the Demand Forecasting Advisory Committee may be established by the Chair of the Committee to undertake particular aspects of the Committee's work. Methods for organizing the work and procedures of the Committee must follow the scope of responsibilities assigned to the Committee by the Council. Council staff will make arrangements for Committee meetings and provide general support services.

10. Vice-Chair:

(A) The Vice-Chair of the Demand Forecasting Advisory Committee may be selected by the Executive Director of the Council.

(B) The Vice-Chair will perform the duties of the Chair of the Committee, in the absence of the Chair, and such other duties as the Chair of the Committee may assign.

11. Rules: The advisory committee rules approved and adopted by the Council on March 17, 1982, as amended from time to time, will apply to the Demand Forecasting Advisory Committee to the extent such matters are not covered in this Charter.

12. Estimated Frequency of Committee Meetings: The Chair of the Demand Forecasting Advisory Committee, after consultation with the Management Officer, or his or her designee, will call meetings as necessary. All meetings will be open to the public, unless closed pursuant to 5 U.S.C. 552b(c). Timely notice of meetings, including agendas, will be made. Interested persons may attend Committee meetings and appear before or file statements with the Committee pursuant to the Council's advisory committee rules and subject to such other rules as the Council may prescribe.

13. Reimbursement of Expenses: ~~For purposes of attending Committee meetings, t~~The Council ~~will~~ may reimburse ~~public~~ members of the Generating Resources Advisory Committee for travel, including per diem in lieu of subsistence, in accordance with the Council's travel ~~regulations-policy for contractors and advisory committee members, for the purpose of attending Committee meetings and~~ as authorized by 5 U.S.C. §5703. The Executive Director shall determine who ~~public members are~~ may receive reimbursement.

14. Duration: The Demand Forecasting Advisory Committee will terminate two years from the date this Charter is adopted, unless renewed in accordance with the Federal Advisory Committee Act.

This Charter for the Demand Forecasting Advisory Committee was approved and adopted at a duly called meeting of the Northwest Power and Conservation Council on June 16-17, 2020.

Richard Devlin, Chair

Date Filed: June 2020

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CHARTER OF THE DEMAND RESPONSE ADVISORY COMMITTEE

1. Official Designation: This advisory committee will be known as the Northwest Power and Conservation Council's Demand Response Advisory Committee.
2. Background: The Pacific Northwest Electric Power Planning and Conservation Act, P.L. 96-501, 16 U.S.C. §839 et seq. (Act), in Section 4(e)(3)(D), requires the Pacific Northwest Electric Power and Conservation Planning Council (Council) to prepare and adopt a regional conservation and electric power plan that gives priority to resources that the Council determines to be cost-effective. To determine the cost-effectiveness of new resources, it is necessary to estimate the performance, cost, and availability of new resources potentially available to the region. The Demand Response Advisory Committee will assist in the development of reasonable estimates of the performance, cost, and availability of new demand response resources and improvements to the efficiency of the electric power system.

In order to facilitate the development of those resources that the Council determines to be desirable components of the region's future resource mix, the Council must also understand barriers that may exist to the development of these resources, and policies and actions that might be implemented to resolve these barriers. Such policies and actions constitute the research and development element of the power plan called for in the Act. The Demand Response Advisory Committee will assist the Council in the identification of barriers to the development of resources and policies and actions to address these barriers.

This advisory committee is established as part of a network of advisory committees satisfying the Council's obligation under the Act to establish a Scientific and Statistical Advisory Committee. Section 4(c)(11). Under Section 4(a)(4) of the Act, the terms of the Federal Advisory Committee Act, 5 U.S.C. Appendix I, Sections 1-14, apply "to the extent appropriate" to the Council's advisory committees.

3. Objectives and Scope of Activity: The Demand Response Advisory Committee will advise the Council during the update and implementation (~~associated action items from the Seventh Plan provided~~) of the regional Power Plan by:
 - (A) Assisting the Council in developing common definitions of demand response products that satisfy regional and local requirements. ~~{Action Items RES-4, BPA-3, REG-3}~~
 - (B) Assisting the Council in identifying technical, cost, environmental, institutional, contractual and other barriers to the development of demand response. ~~{Action Items RES-4, BPA-3}~~

- (C) Assisting the Council in developing policies and actions to resolve barriers to the development of demand response. [~~Action Items RES-4, BPA-3~~]
 - (D) Assisting the Council by providing feedback and suggestions for improving the effectiveness of the demand response resource development programs and activities in the region, including the evaluation of these resources and the interplay between demand response and energy efficiency. [~~Action Items RES-4, RES-5, BPA-3~~]
 - (E) Assisting the Council in implementing elements of the Seventh Plan demand response action plan. [~~Action Items RES-4, RES-5, REG-3, BPA-3, BPA-4~~]
 - (F) Assisting the Council in assessing: 1) the current performance, cost and availability of demand response; 2) technology development trends; and 3) the effect of these trends on the future performance, cost, and availability of demand response resources. [~~Action Item REG-3, BPA-4~~]
 - (G) Assisting the Council in development of the [Eighth Plan's 2021 Power Plan](#) assessment of regional demand response potential. [~~Action Item REG-3, BPA-4~~]
 - (H) Assisting the Council in development of the [Eighth Plan's 2021 Power Plan](#) demand response action plan.
4. Official to Whom the Advisory Committee Reports: The Demand Response Advisory Committee will report to the Council's Executive Director.
 5. Authority of the Advisory Committee: The Demand Response Advisory Committee will serve in an advisory capacity only. Neither the Committee nor its members are authorized to make statements or commitments on behalf of the Council. Non-staff members of the Committee are not Council employees.
 6. Estimated Annual Operating Costs in Dollars and Person-Days: Four-thousand dollars (\$4,000) per year for travel, teleconference and video conference meetings support; six thousand dollars (\$6,000) per year contracted services for minutes; and thirty staff days to organize and attend committee meetings.
 7. Advisory Committee Members: Every two years, the chair of the advisory committee, in consultation with the Director of the Power Planning Division will solicit technical experts to participate on the advisory committee from a wide range of regional stakeholders. The Council's Executive Director shall approve the participants and, in doing so, shall ensure that membership of the advisory committee is fairly balanced in terms of the points of view represented and the functions to be performed by the advisory committee.

Committee members shall be selected based primarily on their technical expertise and experience. Members may include [representative from](#) electric and gas public and private utilities, [experts in the regional economy](#), state energy offices, Bonneville [Power Administration](#), the Energy Trust of Oregon, non-utility program implementers, state utility regulatory [offices](#), trade associations, energy efficiency industry firms, public interest groups, and the general public. All committee members serve at the pleasure of the Council.

If a member is unable to complete the two year term, the organization the member is affiliated with may designate another person to serve for the remainder of the [original member's](#) term. All replacement members must be approved by the [Director of the Power Planning Division, Executive Director of the Council](#). ~~The Executive Director shall be responsible for ensuring Council members are timely notified of any such replacement members.~~

If a request for membership is submitted during the two year term by a person or organization that is not currently represented on the Committee, that request for membership must be approved by the Executive Director, with input from the Director of the Power Planning Division. The Council will be timely notified of the updated membership.

If a member is unable to attend a particular committee meeting, that member may designate another person from his/her organization to attend in his/her place. Members may also participate in committee meetings electronically-remotely via webinar or telephone.

8. Advisory Committee Management Officer: The Advisory Committee Management Officer (Management Officer) for the Demand Response Advisory Committee will be the Director of the Council's Power Planning Division.

9. Chair:

(A) The Chair of the Demand Response Advisory Committee will be selected by the Executive Director of the Council.

(B) The Chair may be called upon to report to the Executive Director of the Council on appropriate matters, including the Advisory Committee's progress on the tasks described in Part 3 of this Charter.

(C) The duties of the Chair will include presiding over Demand Response Advisory Committee meetings, setting agendas for such meetings, ensuring that detailed minutes of such meetings are prepared and submitted to the Executive Director of the Council in a timely manner, and maintaining communication between the Committee and the Council's staff.

(D) The Chair will certify detailed minutes of meetings of the Demand Response Advisory Committee. The minutes should include a time, date, and place of meetings; a list of persons present at the meeting including, advisory committee members, staff, Council members, and members of the public who presented oral or written statements; complete and an accurate description summary of matters discussed, conclusions reached, and actions taken; and, , persons invited to meet with the Committee, and persons in attendance. The minutes also will include copies of written statements made by members of the public, reports received, issued or approved by the Committee. Minutes of meetings will be prepared and released within ten days of the meeting, unless the Management Officer grants an extension. The Chair will post the minutes of each meeting on the Committee meeting agenda webpage. distribute copies of the minutes to members of the Committee and other interested persons.

(E) Subcommittees or small workgroups of the Demand Response Advisory Committee may be established by the Chair of the Committee to undertake particular aspects of the Committee's work. Methods for organizing the work and procedures of the Committee must follow the scope of responsibilities assigned to the Committee by the Council. Council staff will make arrangements for Committee meetings and provide general support services.

10. Vice-Chair:

(A) The Vice-Chair of the Demand Response Advisory Committee will be selected by the Executive Director of the Council.

(B) The Vice-Chair will perform the duties of the Chair of the Committee in the absence of the Chair, and such other duties as the Chair of the Committee may assign.

11. Rules: The advisory committee rules approved and adopted by the Council on March 17, 1982, as amended from time to time, will apply to the Demand Response Advisory Committee to the extent such matters are not covered in this Charter.

12. Estimated Frequency of Committee Meetings: The Chair of the Demand Response Advisory Committee, after consultation with the Management Officer, or his or her designee, will call

meetings as necessary. It is estimated that eight committee meetings over two years will be held. Additional subcommittee meetings may also be held. All meetings will be open to the public, unless closed pursuant to 5 U.S.C. §552b(c). Timely notice of meetings, including agendas, will be made. Interested persons may attend Committee meetings and appear before or file statements with the Committee pursuant to the Council's advisory committee rules and subject to such other rules as the Council may prescribe.

13. Reimbursement of Expenses: ~~For purposes of attending Committee meetings, t~~The Council ~~will~~ may reimburse ~~public~~ members of the Demand Response Advisory Committee for travel, including per diem in lieu of subsistence, in accordance with the Council's travel ~~regulations policy for contractors and advisory committee members, for the purpose of attending Committee meetings and~~ as authorized by 5 U.S.C. §5703. The Executive Director shall determine who may receive reimbursement~~public members are~~.
14. Duration: The Demand Response Advisory Committee will terminate two years from the date this Charter is adopted, unless renewed in accordance with the Federal Advisory Committee Act.

This Charter for the Demand Response Advisory Committee was approved and adopted at a duly noticed meeting of the Northwest Power and Conservation Council on June 16-17, 2020.

Richard Devlin, Chair

Date Filed: June 2020

Richard Devlin
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Jeffery C. Allen
Idaho

CHARTER OF THE GENERATING RESOURCES ADVISORY COMMITTEE

1. Official Designation: This advisory committee will be known as the Northwest Power and Conservation Council's Generating Resources Advisory Committee.
2. Background: The Pacific Northwest Electric Power Planning and Conservation Act, P.L. 96-501, 16 U.S.C. §839 et seq. (Act), in Section 4(d)(1), requires the Pacific Northwest Electric Power and Conservation Planning Council (Council) to develop "a regional conservation and electric power plan." The plan is to include a twenty year forecast of electricity demand and a resource plan for the development of conservation and generation to meet the demand at the lowest cost consistent with adequate and reliable electricity service. The Generating Resources Advisory Committee will assist the Council in its development and implementation of the Northwest Conservation and Electric Power Plan (power plan) by advising on data, assumptions and analyses regarding generating resources.

This advisory committee is established as part of a network of advisory committees satisfying the Council's obligation under the Act to establish a Scientific and Statistical Advisory Committee. Section 4(c)(11). Under Section 4(a)(4) of the Act, the terms of the Federal Advisory Committee Act, 5 U.S.C. Appendix I, sections 1-14, apply "to the extent appropriate" to the Council's advisory committees.

3. Objectives and Scope of Activity: The Generating Resources Advisory Committee will advise the Council regarding generating resource and technology alternatives having significance to the development and implementation of the power plan. Activities of the Committee will include:
 - (A) Assisting in the identification of generating resources and technology alternatives having significance to the power plan and its implementation. In addition, assisting in the identification and tracking of emerging technologies with the potential to play a role in the future power system.
 - (B) Assisting in the identification of sources of technical, cost, environmental and other important information concerning significant generating resources and technology alternatives.
 - (C) Reviewing the information and assumptions concerning generating resources and technology alternatives.
 - (D) Reviewing and interpreting the analyses concerning generating resources and

technology alternatives undertaken for development of the power plan.

- (E) Reviewing and interpreting the analyses regarding policies affecting the development of new generating resources and the operation of existing resources, for example state renewable portfolio standards.
- 4. Official to Whom the Advisory Committee Reports: The Generating Resources Advisory Committee will report to the Council's Executive Director.
- 5. Authority of the Advisory Committee: The Generating Resources Advisory Committee will serve in an advisory capacity only. Neither the Committee nor its members are authorized to make statements or commitments on behalf of the Council. Non-staff members of the Committee are not Council employees.
- 6. Estimated Annual Operating Costs in Dollars and Person-Days: Five-thousand dollars (\$5,000) per year for travel, teleconference and video conference meetings support; eight thousand dollars (\$8,000) per year contracted services for minutes; and thirty staff days to organize and attend committee meetings.
- 7. Advisory Committee Members: Every two years, the chair of the advisory committee, in consultation with the Director of the Power Planning Division will solicit technical experts to participate on the advisory committee from a wide range of regional stakeholders. The Council's Executive Director shall approve the participants and, in doing so, shall ensure that membership of the advisory committee is fairly balanced in terms of the points of view represented and the functions to be performed by the advisory committee.

Committee members shall be selected based primarily on their technical expertise and experience. Members may include representatives from electric and gas public and private utilities, experts in the regional economy, state energy offices, Bonneville, the Energy Trust of Oregon, non-utility program implementers, state utility regulatory offices, trade associations, energy efficiency industry firms, public interest groups, and the general public. All committee members serve at the pleasure of the Council.

If a member is unable to complete the two year term, the organization the member is affiliated with may designate another person to serve for the remainder of the original member's term. All replacement members must be approved by the Executive Director of the Council. Director of the Power Planning Division. The Executive Director shall be responsible for ensuring Council members are timely notified of any such replacement members.

If a request for membership is submitted during the two year term by a person or organization that is not currently represented on the Committee, that request for membership must be approved by the Executive Director, with input from the Director of the Power Planning Division. The Council will be timely notified of the updated membership.

If a member is unable to attend a particular committee meeting, that member may designate another person from his/her organization to attend in his/her place. Members may also participate in committee meetings electronically-remotely via webinar or telephone.

- 8. Advisory Committee Management Officer: The Advisory Committee Management Officer (Management Officer) for the Generating Resources Advisory Committee will be the Director of the Council's Power Planning Division.
- 9. Chair:
 - (A) The Chair of the Generating Resources Advisory Committee will be selected by the Executive Director of the Council.

- (B) The Chair may be called upon to report to the Executive Director of the Council on appropriate matters, including the Advisory Committee's progress on the tasks described in Part 3 of this Charter.
 - (C) The duties of the Chair will include presiding over Generating Resources Advisory Committee meetings, setting agendas for such meetings, ensuring that detailed minutes of such meetings are prepared and submitted to the Executive Director of the Council in a timely manner, and maintaining communication between the Committee and the Council's staff.
 - (D) The Chair will certify detailed minutes of meetings of the Generating Resources Advisory Committee. The minutes should include time, date, and place of meetings; a list of persons present at the meeting, including advisory committee members, staff, Council members, and members of the public who presented oral or written statements; an complete and accurate description-summary of matters discussed, conclusions reached, and actions taken; and, ~~persons invited to meet with the Committee, and persons in attendance. The minutes also will include~~ copies of written statements made by members of the public, reports received, issued or approved by the Committee. Minutes of meetings will be prepared and released within ten days of the meeting, unless the Management Officer grants an extension. The Chair will ~~distribute copies of the minutes to members of the Committee and other interested persons~~ post the minutes of each meeting on the Committee meeting agenda webpage.
 - (E) Subcommittees or small workgroups of the Generating Resources Advisory Committee may be established by the Chair of the Committee to undertake particular aspects of the Committee's work. Methods for organizing the work and procedures of the Committee must follow the scope of responsibilities assigned to the Committee by the Council. Council staff will make arrangements for Committee meetings and provide general support services.
10. Vice-Chair:
- (A) A Vice-Chair of the Generating Resources Advisory Committee may be appointed from Council staff by the Council's Executive Director.
 - (B) The Vice-Chair will perform the duties of the Chair of the Committee in the absence of the Chair, and such other duties as the Chair of the Committee may assign.
11. Rules: The advisory committee rules approved and adopted by the Council on March 17, 1982, as amended from time to time, will apply to the Generating Resources Advisory Committee to the extent such matters are not covered in this Charter.
12. Estimated Frequency of Committee Meetings: The Chair of the Generating Resources Advisory Committee, after consultation with the Management Officer, or his/her designee, will call meetings as necessary. The estimated frequency of meetings during development of a power plan is quarterly. The estimated frequency of meetings during implementation of a power plan is semi-annual to annual, with additional subgroups of the advisory committee meeting as needed. All meetings will be open to the public, unless closed pursuant to 5 U.S.C. §552b(c). Timely notice of meetings, including agendas, will be made. Interested persons may attend Committee meetings and appear before or file statements with the Committee pursuant to the Council's advisory committee rules and subject to such other rules as the Council may prescribe.
13. Reimbursement of Expenses: For purposes of attending Committee meetings, tThe Council will may reimburse ~~public~~ members of the Generating Resources Advisory Committee for travel, including per diem in lieu of subsistence, in accordance with the Council's travel ~~regulations policy for contractors and advisory committee members, for the purpose of attending Committee meetings~~ and as authorized by 5 U.S.C. §5703. The Executive Director shall determine who ~~public may receive reimbursement members are.~~

14. Duration: The Generating Resources Advisory Committee will terminate two years from the date this Charter is adopted unless renewed in accordance with the Federal Advisory Committee Act.

This Charter for the Generating Resources Advisory Committee was approved and adopted at a duly noticed meeting of the Northwest Power and Conservation Council ~~on~~, ~~June~~^y 16-17, 2020.

Richard Devlin, Chair

Date Filed: June 2020

—

Richard Devlin
Chair
Oregon

Ted Ferrioli
Oregon

Guy Norman
Washington

Patrick Oshie
Washington



Northwest Power and Conservation Council

Bo Downen
Vice Chair
Montana

Jennifer Anders
Montana

Jim Yost
Idaho

Jeffery C. Allen
Idaho

CHARTER OF THE NATURAL GAS ADVISORY COMMITTEE

1. **Official Designation:** This advisory committee will be known as the Northwest Power and Conservation Council's Natural Gas Advisory Committee.
2. **Background:** The Pacific Northwest Electric Power Planning and Conservation Act, P.L. 96-501, 16 U.S.C. §839 *et seq.* (Act), in Section 4(d)(1), requires the Pacific Northwest Electric Power and Conservation Planning Council (Council) to develop "a regional conservation and electric power plan." The plan is to include a twenty year forecast of electricity demand and a resource plan for the development of conservation and generation to meet the demand at the lowest cost consistent with adequate and reliable electricity service. Natural gas plays an important role in both the forecast of electricity demands and the cost of electricity generation using natural gas fueled alternatives. The Natural Gas Advisory Committee is being formed to assist the Council in the development and implementation of the Northwest Conservation and Electric Power Plan (power plan) by advising on important assumptions and analyses regarding the natural gas markets in the region.

This advisory committee is established as part of a network of advisory committees satisfying the Council's obligation under the Act to establish a Scientific and Statistical Advisory Committee. Section 4(c)(11). Under Section 4(a)(4) of the Act, the terms of the Federal Advisory Committee Act, 5 U.S.C. Appendix I, sections 1-14, apply "to the extent appropriate" to the Council's advisory committees.

3. **Objectives and Scope of Activity:** The Natural Gas Advisory Committee will advise the Council during the development and implementation of its power plan of changing conditions in the natural gas markets and their implications for the Council's plan by:
 - (A) Assisting the Council in identifying significant changes in natural gas markets and their implications for future gas supplies and prices;
 - (B) Providing guidance on the availability and deliverability of natural gas to electric generation plants as part of the assessment of resource adequacy;
 - (C) Assisting the Council in evaluating new analytical tools, and advising on the most appropriate study designs; and
 - (D) Helping to identify sources of information and data, and suggesting ways that electric and gas utilities can cooperate in analysis and planning.

4. Official to Whom the Advisory Committee Reports: The Natural Gas Advisory Committee will report to the Council's Executive Director.
5. Authority of the Advisory Committee: The Natural Gas Advisory Committee will serve in an advisory capacity only. Neither the Committee nor its members are authorized to make statements or commitments on behalf of the Council. Non-staff members of the Committee are not Council employees.
6. Estimated Annual Operating Costs in Dollars and Staff Time: \$8,000 plus two weeks of staff time per year.
7. Advisory Committee Members: Every two years, the chair of the advisory committee, in consultation with the Director of the Power Planning Division will solicit technical experts to participate on the advisory committee from a wide range of regional stakeholders. The Council's Executive Director shall approve the participants and, in doing so, shall ensure that membership of the advisory committee is fairly balanced in terms of the points of view represented and the functions to be performed by the advisory committee.

Committee members shall be selected based primarily on their technical expertise and experience. Members may include representatives from electric and gas public and private utilities, ~~experts in the regional economy~~, state energy offices, Bonneville Power Administration, the Energy Trust of Oregon, non-utility program implementers, state utility regulatory offices, trade associations, energy efficiency industry firms, public interest groups, and the general public. All committee members serve at the pleasure of the Council.

Committee members shall be selected based primarily on their technical expertise and experience. Membership may include representatives from electric and gas public and private utilities, state energy offices, Bonneville, the Energy Trust of Oregon, non-utility program implementers, state utility regulators, trade associations, energy efficiency industry firms, public interest groups, and the general public. All committee members serve at the pleasure of the Council.

If a member is unable to complete the two year term, the organization the member is affiliated with may designate another person to serve for the remainder of the ~~original member's~~ term. All replacement members must be approved by the ~~Executive Director of the Council~~ Director of the Power Planning Division. ~~The Executive Director shall be responsible for ensuring Council members are timely notified of any such replacement members.~~

If a request for membership is submitted during the two year term by a person or organization that is not currently represented on the Committee, that request for membership must be approved by the Executive Director, with input from the Director of the Power Planning Division. The Council will be timely notified of the updated membership.

If a member is unable to attend a particular committee meeting, that member may designate another person from his/her organization to attend in his/her place. Members may also participate in committee meetings ~~electronically~~ remotely via webinar or telephone.

8. Advisory Committee Management Officer: The Advisory Committee Management Officer (Management Officer) for the Natural Gas Advisory Committee will be the Director of the Council's Power Planning Division. The Management Officer will designate members of the Council's staff to coordinate and attend meetings of the Committee.
9. Chair:
 - (A) The Chair of the Natural Gas Advisory Committee will be selected by the Executive Director of the Council.
 - (B) The Chair may be called upon to report to the Executive Director of the Council on

appropriate matters, including the Advisory Committee's progress on the tasks described in Part 3 of this Charter.

(C) The duties of the Chair will include presiding over Natural Gas Advisory Committee meetings, setting agendas for meetings, ensuring that detailed minutes of meetings are prepared and submitted to the Executive Director of the Council in a timely manner, and maintaining communication between the Committee and the Council's staff.

(D) The Chair will certify detailed minutes of meetings of the Natural Gas Advisory Committee. The minutes should include time, date and place of meetings; a list of persons present at the meeting, including advisory committee members, staff, Council members, and members of the public who presented oral or written statements; an complete and accurate description summary of matters discussed, conclusions reached, and actions taken; ~~and, persons invited to meet with the Committee, and persons in attendance. The minutes also will include~~ copies of written statements made by members of the public, reports received, issued or approved by the Committee. Minutes of meetings will be prepared and released within ten days of the meeting, unless the Management Officer grants an extension. The Chair will ~~distribute copies of the minutes to members of the Committee and other interested persons post the minutes of each meeting on the Committee meeting agenda webpage.~~

(E) Subcommittees or small workgroups of the Natural Gas Advisory Committee may be established by the Chair of the Committee to undertake particular aspects of the Committee's work. Methods for organizing the work and procedures of the Committee must follow the scope of responsibilities assigned to the Committee by the Council. Council staff will make arrangements for Committee meetings and provide general support services.

10. Vice-Chair:

(A) A Vice-Chair of the Natural Gas Advisory Committee may be appointed from Council staff by the Council's Executive Director.

(B) The Vice-Chair will perform the duties of the Chair of the Committee in the absence of the Chair, and such other duties as the Chair of the Committee may assign.

11. Rules: The advisory committee rules approved and adopted by the Council on March 17, 1982, as amended from time to time, will apply to the Natural Gas Advisory Committee to the extent such matters are not covered in this Charter.

12. Estimated Frequency of Committee Meetings: The Chair of the Natural Gas Advisory Committee, after consultation with the Management Officer, or his or her designee, will call meetings as necessary. All meetings will be open to the public, unless closed pursuant to 5 U.S.C. §552b(c). Timely notice of meetings, including agendas, will be made. Interested persons may attend Committee meetings and appear before or file statements with the Committee pursuant to the Council's advisory committee rules and subject to such other rules as the Council may prescribe.

13. Reimbursement of Expenses: ~~For purposes of attending Committee meetings, t~~The Council ~~will~~ may reimburse ~~public~~ members of the Natural Gas Advisory Committee for travel, including per diem in lieu of subsistence, in accordance with the Council's travel ~~regulations policy for contractors and advisory committee members, for the purpose of attending Committee meetings~~ and as authorized by 5 U.S.C. §5703. The Executive Director shall determine who ~~public members are~~ may receive reimbursement.

14. Duration: The Natural Gas Advisory Committee will terminate two years from the date this Charter is adopted unless renewed in accordance with the Federal Advisory Committee Act.

This charter for the Natural Gas Advisory Committee was approved and adopted at a duly called meeting of the Northwest Power and Conservation Council on, June ~~167-178~~, 2020.

Richard Devlin, Chair

Date Filed: June 2020

Richard Devlin
Chair
Oregon

Ted Ferrioli
Oregon

Guy Norman
Washington

Patrick Oshie
Washington



Northwest Power and Conservation Council

Bo Downen
Vice Chair
Montana

Jennifer Anders
Montana

Jim Yost
Idaho

Jeffery C. Allen
Idaho

CHARTER OF THE RESOURCE ADEQUACY ADVISORY COMMITTEE

1. **Official Designation:** This committee will be known as the Northwest Power and Conservation Council Resource Adequacy Advisory Committee.
2. **Background:** The Pacific Northwest Electric Power Planning and Conservation Act, P.L. 96-501, 16 U.S.C. §839 et seq. (Act), in Section 4(d)(1), requires the Northwest Power and Conservation Council (Council) to prepare and adopt a regional conservation and electric power plan. The purpose of the power plan and one of the central purposes of the Act is to assure the Pacific Northwest an adequate, efficient, economical, and reliable power supply. The plan must include a demand forecast of at least twenty years and a forecast of power resources estimated by the Council to be required to meet the Bonneville Power Administrator's obligations, as well as an analysis of reserve and reliability requirements so as to ensure adequate electric power at the lowest probable cost.

In 2005, the Council and the Bonneville Power Administration created the Resource Adequacy Forum (Forum) to aid the Council in developing an adequacy standard for the regional power supply and to use that standard to annually evaluate the adequacy of the power supply. The Forum, open to the public, included utility planners, state utility commission staff, and other interested parties. In 2008, the Forum reached consensus on a standard, which was adopted by the Council in April of 2008 and was used to develop the Sixth Power Plan. After an extensive peer review of the methodology in the following years, the Forum proposed a revised standard to the Council who subsequently adopted the revisions in December of 2011. The Council utilizes the standard in its power plan to ensure that future resource strategies will provide adequate power supplies. The Council also uses the standard to annually assess the adequacy of the region's power supply five years out, as an early warning should resource development fall short of demand growth for whatever reason. Given the importance of resource adequacy toward the development of the power plan, the Council chose to convert the ad-hoc Resource Adequacy Forum into the Resource Adequacy Advisory Committee (RAAC) – a more formally defined committee with federal guidelines regarding membership and function.

3. **Objectives and Scope of Activity:** The RAAC will advise the Council by:
 - (A) Aiding Council staff in preparing and submitting to the Council an annual assessment of the adequacy of the region's power supply.
 - (B) Advising the Council on developing or modifying regional resource adequacy metrics.

- (C) Advising the Council on issues related to resource adequacy, for example by recommending methods to quantify how various types of resources contribute to power supply adequacy and how to best incorporate generating reserves into the assessment.
- (D) Assisting in incorporating the regional resource adequacy standard and metrics into development of the Council's Northwest Power Plans.

4. Structure and Organization: To carry out these objectives, the RAAC will be comprised of a technical committee and a steering committee. The function of the technical committee will be to collect and review relevant data and to aid in the enhancement of analytical tools used for the analysis. The function of the steering committee will be to provide policy related recommendations to the Council for use in performing regional resource adequacy assessments and to periodically review methodologies used for those assessments.

For example, to carry out objective (A) described above, the technical committee will gather and review load, resource and other relevant data. The steering committee will then review that data and make policy-related recommendations to the Council, which are needed to proceed with the analysis. Such recommendations may include, for example, an assumed level of reliance on market supplies. After review and approval by the Council, staff will prepare a preliminary adequacy assessment for review by the technical and steering committees. The Council will be briefed on the results of the preliminary assessment. Should any adjustments to the analyses be needed, proposed changes will be reviewed by both RAAC committees. Council staff will then prepare a final assessment for presentation to the Council for review, approval and release.

The technical and steering committees shall work together to accomplish the objectives of the RAAC. The RAAC's committees shall operate on a consensus basis to the extent practicable. Neither committee shall have the authority to overrule the other committee. If a situation arises where there is a difference of opinion between the two committees as to how to proceed with the work of the RAAC, the matter shall be brought to the Council for resolution.

- 5. Advisory Committee Management Officer: The Management Officer for the RAAC will be the Director of the Council's Power Planning Division. The Management Officer will designate a member of the Council's staff to coordinate and schedule meetings of the RAAC.
- 6. Co-Chairs: The steering and technical committees will each have one co-chair from the Council and one co-chair from the Bonneville Power Administration.
 - (A) The Chair of the Council, in consultation with the Chair of the Power Committee, Executive Director of the Council, Director of the Council's Power Planning Division, and Bonneville Power Administration, will appoint the co-chairs of the steering and the technical committees. The Bonneville co-chair will be recommended by the Bonneville administrator.
 - (B) The Co-Chairs may be called upon to report to the Executive Director on appropriate matters, including the RAAC's progress on the tasks described in Part 3 of this charter.
 - (C) The duties of the Co-Chairs will include presiding over the meetings of the steering and technical committee which they chair, setting agendas for such meetings, ensuring that detailed minutes of such meetings are prepared and submitted to the Executive Director of the Council in a timely manner, and maintaining communication between the committee and the Council's staff.
 - (D) The steering committee and technical committee co-chairs will certify detailed minutes of meetings of their respective groups. The minutes should include a-time, date, and place

~~of meeting; a list of persons present at the meeting, including advisory committee members, staff, Council members, and members of the public who presented oral and written statements; an complete and accurate description summary of matters discussed and, conclusions reached, and actions taken; and copies of written statements made by members of the public, reports received, issued or approved by the Committee. persons invited to meet with the RAAC, and persons in attendance. The minutes also will include copies of reports received, issued or approved by each committee.~~ Minutes of meetings will be prepared and released within ten days of the meeting, unless the Management Officer grants an extension. The ~~Ceo-C~~chairs will ~~distribute copies of the minutes to members of both the RAAC's committees and all minutes shall be~~ posted the minutes of each meeting on the Committee meeting agenda webpage on the Council's website a timely manner following the distribution of the minutes.

7. Advisory Committee Members: The co-chairs of the RAAC's technical and steering committees, in consultation with the Director of the Power Planning Division and the Council's Executive Director, will solicit policy and technical experts to participate on the RAAC's steering and technical committees from a wide range of regional stakeholders. Steering committee members shall be selected based primarily on their policy expertise and experience. Technical committee members shall be selected based primarily on their technical skills and experience. The co-chairs will recommend to the Council a set of participants for both committees. The Council shall make the final decision to approve the participants in the RAAC's committees and, in doing so, shall ensure that membership of the advisory committee is fairly balanced in terms of the points of view represented and the functions to be performed by the advisory committee. Co-chairs may appoint replacements from the same organization if any member is unable to serve.

Members may include representatives of public and investor-owned utilities, Bonneville and other federal agencies, state energy offices, state utility regulators, trade associations, energy efficiency and renewable resource associations, independent power producers, public interest groups, and the general public.

8. Subcommittees: Subcommittees or small workgroups of the RAAC steering and technical committees may be established by the co-chairs of the committees to undertake particular aspects of that committee's work. Methods for organizing the work and procedures of RAAC committees must follow the scope of responsibilities assigned to the RAAC by the Council. Council staff will make arrangements for committee meetings and will provide general support services.
9. Estimated Frequency of Committee Meetings: The Co-Chairs of the RAAC steering and technical committees, after consultation with the Management Officer, or his or her designee, will call meetings as necessary. It is estimated that the steering committee and the technical committee will each meet three times per year. Additional subcommittee meetings may also be held as necessary. All meetings will be open to the public, unless closed pursuant to 5 U.S.C. §552b(c). Timely notice of meetings, including agendas, will be made. Interested persons may attend RAAC committee meetings and appear before or file statements with the Committee subject to such reasonable rules as the Council may prescribe.
10. Official to Whom the Committee Reports: The Committee will report to the Council's Executive Director.
11. Authority of the Committee: The Committee will serve in an advisory capacity only. Neither the Committee nor its members are authorized to make statements or commitments on behalf of the Council. Committee members are not Council employees by virtue of their membership on the Committee.

12. Reimbursement of Expenses: ~~For the purpose of attending Committee meetings, t~~The Council ~~will may~~ reimburse ~~public~~ members of the RAAC committees for travel, including per diem in lieu of subsistence, in accordance with the Council's travel ~~regulations policy for contractors and advisory committee members, and for the purpose of attending Committee meetings as~~ authorized by 5 U.S.C. §5703. The Executive Director shall determine who ~~public may receive reimbursement. members are.~~
13. Estimated Annual Operating Costs in Dollars and Person-Days: Ten thousand dollars (\$10,000) per year for teleconference and video conference meeting support, contracted services for minutes and reimbursement of expenses; and six (6) months of one Council staff person's time to schedule meetings, collect and process meeting material, facilitate meetings, coordinate data vetting processes, oversee model enhancement efforts and perform analysis related to adequacy assessments.
14. Rules: The Advisory Committee rules approved and adopted by the Council on March 17, 1982, as amended from time to time, will apply to the RAAC to the extent such matters are not covered in this charter.
15. Duration: The RAAC will terminate two years from the date this Charter is adopted, unless renewed in accordance with the Federal Advisory Committee Act.

This Charter for the Resource Adequacy Committee was approved and adopted at a duly noticed meeting of the Northwest Power and Conservation Council on June ~~12-13~~16-17, 2020~~18~~.

Richard Devlin, Chair

Date Filed: June 2020

Richard Devlin
Chair
Oregon

Ted Ferrioli
Oregon

Guy Norman
Washington

Patrick Oshie
Washington



Northwest Power and Conservation Council

Bo Downen
Vice Chair
Montana

Jennifer Anders
Montana

Jim Yost
Idaho

Jeffery C. Allen
Idaho

CHARTER OF THE SYSTEM ANALYSIS ADVISORY COMMITTEE

1. Official Designation: This advisory committee will be known as the Northwest Power and Conservation Council's System Analysis Advisory Committee.
2. Background: The Pacific Northwest Electric Power Planning and Conservation Act, P.L. 96-501, 16 U.S.C. §839 *et seq.* (Act), in Section 4(d)(1), requires the Pacific Northwest Electric Power and Conservation Planning Council (Council) to develop "a regional conservation and electric power plan." The plan is to include a twenty-year forecast of electricity demand and a resource plan for the development of conservation and generation to meet the demand at the lowest cost, consistent with adequate and reliable electricity service. The System Analysis Advisory Committee will assist the Council in its development and amendment of the Northwest Conservation and Electric Power Plan (power plan) by advising on data, assumptions and analyses regarding power system modeling including resource portfolio and production cost modeling.

This advisory committee is established as part of a network of advisory committees satisfying the Council's obligation under the Act to establish a Scientific and Statistical Advisory Committee. Section 4(c)(11). Under Section 4(a)(4) of the Act, the terms of the Federal Advisory Committee Act, 5 U.S.C. Appendix I, sections 1-14, apply "to the extent appropriate" to the Council's advisory committees.

3. Objectives and Scope of Activity: The System Analysis Advisory Committee will advise the Council regarding power system models having significance to the development and implementation of the power plan. Activities of the committee will include:
 - (A) Reviewing the information and assumptions regarding portfolio modeling.
 - (B) Assisting in developing of parameter and model assumptions for representing power system operations.
 - (C) Reviewing the information and assumptions regarding the wholesale electric power price forecast.
4. Official to Whom the Advisory Committee Reports: The System Analysis Advisory Committee will report to the Council's Executive Director.
5. Authority of the Advisory Committee: The System Analysis Advisory Committee will serve in an advisory capacity only. Neither the Committee nor its members are authorized to make statements or commitments on behalf of the Council. Non-staff members of the Committee are not Council employees.
6. Estimated Annual Operating Costs in Dollars and Staff Time: Five-thousand dollars (\$5,000) per year for travel, teleconference and video conference meetings support; eight thousand dollars

(\$8,000) per year contracted services for minutes; and thirty staff days to organize and attend committee meetings.

7. Advisory Committee Members: Every two years, the chair of the advisory committee, in consultation with the Director of the Power Planning Division will solicit technical experts to participate on the advisory committee from a wide range of regional stakeholders. The Council's Executive Director shall approve the participants and, in doing so, shall ensure that membership of the advisory committee is fairly balanced in terms of the points of view represented and the functions to be performed by the advisory committee.

Committee members shall be selected based primarily on their technical expertise and experience. Members may include representatives from electric and gas public and private utilities, ~~experts in the regional economy,~~ state energy offices, Bonneville Power Administration, the Energy Trust of Oregon, non-utility program implementers, state utility regulatory offices, trade associations, energy efficiency industry firms, public interest groups, and the general public. All committee members serve at the pleasure of the Council.

If a member is unable to complete the two year term, the organization the member is affiliated with may designate another person to serve for the remainder of the ~~original member's~~ term. All replacement members must be approved by the Director of the Power Planning Division. The Executive Director of the Council. The Executive Director shall be responsible for ensuring Council members are timely notified of any such replacement members.

If a request for membership is submitted during the two year term by a person or organization that is not currently represented on the Committee, that request for membership must be approved by the Executive Director, with input from the Director of the Power Planning Division. The Council will be timely notified of the updated membership..

If a member is unable to attend a particular committee meeting, that member may designate another person from his/her organization to attend in his/her place. Members may also participate in committee meetings ~~electronically-remotely~~ via webinar or telephone.

8. Advisory Committee Management Officer: The Advisory Committee Management Officer (Management Officer) for the System Analysis Advisory Committee will be the Director of the Council's Power Planning Division.
9. Chair:
 - (A) The Chair of the System Analysis Advisory Committee will be selected by the Executive Director of the Council.
 - (B) The Chair may be called upon to report to the Executive Director of the Council on appropriate matters, including the Advisory Committee's progress on the tasks described in Part 3 of this Charter.
 - (C) The duties of the Chair will include presiding over System Analysis Advisory Committee meetings, setting agendas for such meetings, ensuring that detailed minutes of such meetings are prepared and submitted to the Executive Director of the Council in a timely manner, and maintaining communication between the Committee and the Council's staff.
 - (D) The Chair will certify detailed minutes of meetings of the System Analysis Advisory Committee. The minutes should include a time, date, and place of meetings; a list of persons present at the meeting, including advisory committee members, staff, Council members, and members of the public who presented oral or written statements; an complete and-accurate summary description of matters discussed, conclusions reached, and actions taken; ~~persons invited to meet with the Committee, and persons in attendance. The minutes also will include~~ and copies of written statements made by members of the public, reports received, issued or approved by the Committee. Minutes

of meetings will be prepared and released within ten days of the meeting, unless the Management Officer grants an extension. The Chair will ~~distribute copies of the minutes to members of the Committee and other interested persons~~ post the minutes of each meeting on the [Committee meeting agenda webpage](#).

- (E) Subcommittees or small workgroups of the System Analysis Advisory Committee may be established by the Chair of the Committee to undertake particular aspects of the Committee's work. Methods for organizing the work and procedures of the Committee must follow the scope of responsibilities assigned to the Committee by the Council. Council staff will make arrangements for Committee meetings and provide general support services.
10. Vice-Chair:
- (A) A Vice-Chair of the System Analysis Advisory Committee may be appointed from Council staff by the Council's Executive Director.
- (B) The Vice-Chair will perform the duties of the Chair of the Committee in the absence of the Chair, and such other duties as the Chair of the Committee may assign.
11. Rules: The advisory committee rules approved and adopted by the Council on March 17, 1982, as amended from time to time, will apply to the System Analysis Advisory Committee to the extent such matters are not covered in this Charter.
12. Estimated Frequency of Committee Meetings: The Chair of the System Analysis Advisory Committee, after consultation with the Management Officer, or his or her designee, will call meetings as necessary. All meetings will be open to the public, unless closed pursuant to 5 U.S.C. §552b(c). Timely notice of meetings, including agendas, will be made. Interested persons may attend Committee meetings and appear before or file statements with the Committee pursuant to the Council's advisory committee rules and subject to such other rules as the Council may prescribe.
13. Reimbursement of Expenses: ~~For purposes of attending Committee meetings, the Council will may reimburse public members of the System Analysis Advisory Committee for travel, including per diem in lieu of subsistence in accordance with the Council's travel regulations policy for contractors and advisory committee members, for the purpose of attending Committee meetings as authorized by 5 U.S.C. §5703. The Executive Director shall determine who public may receive reimbursement. members are.~~
14. Duration: The System Analysis Advisory Committee will terminate two years from the date this Charter is adopted, unless renewed in accordance with the Federal Advisory Committee Act.

This Charter for the Conservation Resources Advisory Committee was approved and adopted at a duly noticed meeting of the Northwest Power and Conservation Council on June ~~167-178~~, 2020.

Richard Devlin, Chair

Date Filed: June 2020

Richard Devlin
Chair
Oregon

Ted Ferrioli
Oregon

Guy Norman
Washington

Patrick Oshie
Washington



Northwest Power and Conservation Council

Bo Downen
Vice Chair
Montana

Jennifer Anders
Montana

Jim Yost
Idaho

Jeffery C. Allen
Idaho

June 9, 2020

Advisory Committees Draft Membership Lists

Demand Response Advisory Committee

Draft membership, updated June 8, 2020

Name	Affiliation
Investor Owned Utilities	
Ryan Finesilver	Avista
Quentin Nesbitt	Idaho Power
Andy Eiden	Portland General Electric
Gurvinder Singh	Puget Sound Energy
Elaine Prause	PacifiCorp
Bonneville, Publics/Co-ops	
Lee Hall	Bonneville Power Administration
Ross Hotler	Flathead Electric
Zeecha Van Hoose	Clark PUD
Suzanne Frew	Snohomish PUD
Wade Carey	Central Lincoln
TBD	Seattle City Light
Ahlmahz Negash	Tacoma PUD
State Agencies	
Kyla Maki	Montana Department of Environmental Quality
Nick Sayen	Oregon Public Utility Commission

Adam Schultz	Oregon Department of Energy
Stacey Donohue	Idaho Public Utilities Commission
Sarah Vorpahl	Washington Department of Commerce
Kyle Frankiewich	Washington Utilities and Transportation Commission
Utility Associations, Other Organizations, Stakeholders	
Tomas Morrissey	Pacific Northwest Utilities Conference Committee
Nicolas Garcia	Washington PUD Association
Aaron Bush	Public Power Council
Gary Wiens	Montana Electric Cooperative Association
Mary Ann Piette	Lawrence Berkeley National Laboratory
Kerry Meade	Northwest Energy Efficiency Council
Fred Huette	NW Energy Coalition
Bud Tracy	Unaffiliated
Clint Gerkensmeyer	Energy Northwest
Malcolm Ainspan	NRG
Scott Reeves	Cadmus
Stuart Schare	Guidehouse
Eli Morris	AEG
Tom Eckhart	UCONS
Mark Jerome	CLEARresult
Council Staff	
Tina Jayaweera	Northwest Power and Conservation Council
John Ollis	Northwest Power and Conservation Council

Demand Forecast Advisory Committee
 Draft membership, updated June 8, 2020

Name	Affiliation
Investor Owned Utilities	
Amber Riter	Portland General Electric
Lee Elder	PacifiCorp
Grant Forsyth	Avista
Tom Pardee	Avista
James Gall	Avista
Allison Jacobs	Puget Sound Energy
Stephanie Price	Puget Sound Energy
Ken Ross	FortisBC
Mike Hopkins	FortisBC
Mark Seller-Vaughn	Cascade Natural Gas
Brian Robertson	Cascade Natural Gas
Bonneville, Publics/Co-ops	
Glen Booth	Bonneville Power Administration
Peter Eelkeman	Bonneville Power Administration
Villamor Gamponia	Seattle City Light
John Rudolph	Seattle City Light
Jeff Kugel	PNGC Power
Becky Keating	Chelan PUD
State Agencies	
Adam Schultz	Oregon Department of Energy
Rose Anderson	Oregon Public Utility Commission
Max St. Brown	Oregon Public Utility Commission
Andrew Rector	Washington Utilities and Transportation Commission
Utility Associations, Other Organizations, Stakeholders	
Tomas Morrissey	Pacific Northwest Utilities Conference Committee
Tom Potiowsky	Portland State University
Terry Morlan	Unaffiliated

Jim McMahon	Independent consultant
Aaron James	Northwest Energy Efficiency Alliance
Fred Heutte	Northwest Energy Coalition
Dan Kirschner	Northwest Natural Gas Association
Council Staff	
Massoud Jourabchi	Northwest Power and Conservation Council
Steve Simmons	Northwest Power and Conservation Council

Conservation Resources Advisory Committee

Draft membership, updated June 8, 2020

Name	Affiliation
Investor Owned Utilities	
Anna Scarlett	Avista
Quentin Nesbitt	Idaho Power
Deb Young	Northwestern Energy
Andy Eiden	Portland General Electric
Gurvinder Singh	Puget Sound Energy
Elaine Prause	PacifiCorp
Bonneville, Publics/Co-ops	
Danielle Walker	Bonneville Power Administration
Jennifer Finnigan	Seattle City Light
Michael Coe	Snohomish PUD
Steve Bicker	Tacoma Power
Chris Johnson	Benton PUD
Debbie DePetris	Clark PUD
Brandy Neff	PNGC Power
State Agencies	
Stacy Donohue	Idaho Public Utilities Commission
Anna Kim	Oregon Public Utility Commission
Michael Breish	Washington Department of Commerce
Warren Cook	Oregon Department of Energy
Deborah Reynolds	Washington Utilities and Transportation Commission
Utility Associations, Other Organizations, Stakeholders	
Aquila Velonis	Cadmus Group
Aaron Bush	Public Power Council
Nicolas Garcia	Washington PUD Association
Gary Wiens	Montana Electric Cooperatives Association
Megan Stratman	Northwest Requirements Utilities
Ted Light	Lighthouse Consulting

Jack Cullen	AEG
Jim Lazar	RAP
Aaron Leatherwood	Evergreen Consulting
Ben Cartwright	Energy Trust of Oregon
Tomas Morrissey	Pacific Northwest Utilities Conference Committee
John Morris	D&R International
Jeff Harris	Northwest Energy Efficiency Alliance
Kerry Meade	Northwest Energy Efficiency Council
Mohit Chhabra	Natural Resources Defense Council
Wendy Gerlitz	Northwest Energy Coalition
Chrissi Antonopoulos	Pacific Northwest National Laboratory
Bud Tracy	Unaffiliated
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Kevin Smit	Northwest Power and Conservation Council
Tina Jayaweera	Northwest Power and Conservation Council
Jennifer Light	Northwest Power and Conservation Council
Charlie Grist	Northwest Power and Conservation Council

Generating Resources Advisory Committee

Draft membership, updated June 8, 2020

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Investor Owned Utilities	
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Mike Babineaux	Northwestern Energy
TBD	PacifiCorp
Jimmy Lindsay	Portland General Electric
Elizabeth Hossner	Puget Sound Energy
Bonneville, Publics/Co-ops	
Peter Stiffler	Bonneville Power Administration
Chris Johnson	Benton County PUD
Shamus Gamache	Central Lincoln PUD
Terry Toland	Clark County PUD
Ben Ulrich	Eugene Water and Electric Board
John Gorski	Flathead Electric Coop
Rich Flanigan	Grant County PUD
Chase Morgan	Idaho Falls Power
Glen Best	Inland Power & Light
TBD	Seattle City Light
Garrison Mar	Snohomish PUD
Mike Hill	Tacoma Power
Jeff Kugel	PNGC Power
State, Federal Agencies	
Bryan Neff	California Energy Commission
Mike Louis	Idaho Public Utility Commission
Tom Kaiserski	Montana Department of Commerce
John Cornwell	Oregon Department of Energy
Greg Nothstein	Washington Department of Commerce
Jim Woodward	Washington Utilities and Transportation Commission

Dan Davis	US Army Corps of Engineers
Utility Associations, Other Organizations, Stakeholders	
Greg Cullen	Energy Northwest
Aaron Bush	Public Power Council
TBD	Energy Trust of Oregon
Breanna Vaughn	Northwest Hydroelectric Association
Fred Huetten	Northwest Energy Coalition
Angela Crowley-Kock	Oregon Solar Energy Industries Association
Dhruv Bhatnagar	Pacific Northwest National Laboratory
Tomas Morrisey	Pacific Northwest Utilities Conference Committee
Rick Williams	Portland State University, Center for Public Service
Dave LaVee	Pwrcast
Max Greene	Renewable Northwest
Mark Gendron	UAMPS
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Gillian Charles	Northwest Power and Conservation Council

Natural Gas Advisory Committee

Draft membership, updated June 8, 2020

Name	Affiliation
Investor Owned Utilities	
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Scott Johnson	NW Natural
Tom Pardee	Avista
Xan Kotter	Williams
Bill Donahue	Puget Sound Energy
Mike Hopkins	FortisBC-Natural Gas
Ken Ross	FortisBC-Natural Gas
Bonneville, Publics/Co-ops	
Jim Robbins	Kootenai Electric Coop
State Agencies	
Rebecca Smith	Oregon Department of Energy
Andrew Rector	Washington Utilities and Transportation Commission
Anthony Dixon	California Energy Commission
Utility Associations. Other Organizations, Stakeholders	
David Hawk	Independent consultant
Clay Riding	NW Innovation Works
Dan Serres	Columbia Riverkeeper
Erin Saylor	Columbia Riverkeeper
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Dan Kirschner	Northwest Natural Gas Association
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Steve Simmons	Northwest Power and Conservation Council

Resource Adequacy Advisory Committee

Draft Steering Committee Members, updated June 8, 2020

Name	Affiliation
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TBD	PacifiCorp
Brett Sims	Portland General Electric
Phillip Popoff	Puget Sound Energy
Bonneville, Publics/Co-ops	
TBD	Chelan
Tom Haymaker	Clark
Gary Huhta	Cowlitz
Will Price	Eugene Water and Electric Board
Kevin Nordt	Grant
Aliza Seelig	Seattle City Light
Anna Berg	Snohomish
Rachel Clark	Tacoma
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State Agencies	
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John Chatburn	Idaho Office of Energy Resources
Paul Schutz	Montana Consumer Counsel
Tom Kaiserski	Montana Department of Commerce
TBD	Oregon Public Utility Commission
TBD	Oregon Department of Energy
Elizabeth Osborne	Washington Energy Office
Steve Johnson	Washington Utilities and Transportation Commission
Utility Associations, Other Organizations, Stakeholders	
Wendy Gerlitz	NW Energy Coalition

Spencer Gray	NW & Intermountain Power Producers Coalition
TBD	NW Requirements Utilities
Shauna McReynolds	PNW Utilities Conference Committee
Lea Fisher	Public Generating Pool
Aaron Bush	Public Power Council
Nicolas Garcia	Washington PUD Association
Sashwat Roy	Renewable NW Project
Co-Chairs	
Richard Devlin	NW Power and Conservation Council
Rob Petty	Bonneville Power Administration

Resource Adequacy Advisory Committee

Draft Technical Committee Members, updated June 8, 2020

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TBD	Puget Sound Energy
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Becky King	Chelan
Tom Haymaker	Clark
TBD	Cowlitz
Ben Ulrich	Eugene Water and Electric Board
Rod Noteboom	Grant
Villamor Gamponia	Seattle City Light
Anna Berg	Snohomish
Ahlmahz Negash	Tacoma
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TBD	Idaho Public Utility Commission
TBD	Idaho Office of Energy Resources
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TBD	Oregon Department of Energy
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Glenn Blackmon	Washington Energy Office
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Megan Stratman	NW Requirements Utilities
Tomas Morrissey	PNW Utilities Conference Committee
Lea Fisher	Public Generating Pool
Nicolas Garcia	Washington PUD Association
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Rob Diffely	Bonneville Power Administration

System Analysis Advisory Committee
 Draft membership, updated June 8, 2020

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Elizabeth Hossner	Puget Sound Energy
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Kevin Nordt	Grant County PUC
Will Price	EWEB
Villamor Gamponia	Seattle City Light
Garrison Marr	Snohomish PUD
Ahlmahz Negash	Tacoma Power
State, Federal Agencies	
Adam Schultz	Oregon Department of Energy
Barbara Miller	USACE
Kathi Scanlan	Washington Utilities and Transportation Commission
Dave Vidaver	California Energy Commission
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Shauna McReynolds	PNW Utilities Conference Committee
Tomas Morrissey	PNW Utilities Conference Committee
Dave LeVee	PwrCast
Fred Heutte	NW Energy Coalition
Aaron Bush	Public Power Council
Jim Litchfield	Litchfield Consulting
John Scott	EPIS/Energy Exemplar

Sibyl Geiselman	Avangrid
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John Ollis	Northwest Power and Conservation Council
John Fazio	Northwest Power and Conservation Council
Dan Hua	Northwest Power and Conservation Council