

To: Irena Netik – Puget Sound Energy (PSE) Director of Energy Supply Planning and Analytics

Cc: Jay Balasbas – UTC Commissioner

Rachel Brombaugh – King County Executive Energy Policy & Partnerships Specialist

Brad Cebulko – UTC Staff

Carla Colamonici – Regulatory Analyst, Public Counsel Division

David Danner – Utilities and Transportation (UTC) Commission Chair

Lisa Gafken – Assistant Attorney General, Public Counsel Unit Chief

Steve Johnson – UTC Staff

Ann Rendahl – UTC Commissioner

Deborah Reynolds – UTC Staff¹

Kathi Scanlan - UTC Staff

Subject: 2019 IRP Technical Input – Use latest renewable energy costs for IRP analyses

On May 13th of this year, you and PSE Resource Planning team members Michele Kvam and Phillip Popoff met with a small group of TAG members on Vashon Island to discuss your vision for how PSE's Integrated Resource Plan (IRP) should be modified to comply with the recently signed Clean Energy Transformation Act (CETA), SB 5116. The TAG attendees included Rob Briggs, Kevin Jones, Virginia Lohr, and myself.

I discussed with your team the remarkably low renewable energy bid prices we (Public Interest Organizations) had gathered from actual bids across several western states, and we shared the data with your team in spreadsheet format. The prices we cited were from fully negotiated, all-in bids that had already resulted in purchase contracts and/or construction, and were as low as \$17.48/MWh and \$20.63/MWh for wind without and with battery storage (4 hours), respectively, and \$21.55/MWh and \$26.50/MWh for solar without and with battery storage (4 hours), respectively. We also discussed PSE VP David Mills' remarks at the April 18th meeting of the Committee on Regional Electric Power Cooperation (CREPC, which I attended), in which he remarked that PSE had an open all-source RFP, which also yielded remarkably low bid prices for renewable resources. We asked your team if you would use your recent bid prices to inform the forward cost projections for your IRP. Philip's response was that PSE would not do so, as PSE projected that renewable energy prices would increase rather than decrease over time. Philip cited his concerns about renewable energy cost increases based on the then newly imposed tariffs on China¹.

On May 22nd, I testified at PSE's Listening Session, held in Bellevue. I reiterated the low renewable energy and storage prices that we have compiled, and mentioned David Mills' remarks from the CREPC meeting held in Salt Lake City. PSE's assertion that renewable energy costs will rise in the future is contrary to many significant authorities that track such pricing

¹ I subsequently consulted the solar and wind trade associations, Solar Energy Industries Association (SEIA) and the American Wind Energy Association (AWEA), and both refuted that claim. Further, entities such as NextEra Energy asserted during a quarterly analysts' call in 2018, that expiration of the Investment Tax Credit will not outpace the continued cost reductions due to technological advances (via personal discussion with Mark Ahlstrom, VP Renewable Energy Policy, and President of the Board, Energy Systems Integration Group).

trends for public purpose. These include the Energy Information Administration, Lawrence Berkeley National Labs, National Renewable Energy Labs, and WECC; financial sector journalists such as Forbes, Bloomberg News, and Utility Dive; and specialized energy economics consulting firms such as E3, Lazard LTD, Strategen Consulting, and Synapse Energy. Further evidence of the declining cost trend for renewables and storage is available at [Clean Energy Cost Revolution](#) (see Articles & References).

My last point of reference is a meeting held on June 14th, 2019 among TAG members and Lisa Gafken, Assistant Attorney General and Public Counsel Unit (PCU) Chief, and several of her staff. Tag members included Doug Howell, Sierra Club; Noah Roselander, Indivisible Vashon; and myself. We shared the recent renewable energy and storage bid prices compiled by PIOs and expressed our concern that PSE may plan to use conservatively high forward pricing assumptions for renewables and storage in its IRP modeling. We inquired whether PSE could provide anonymized or aggregated bid data to stakeholders. PCU remarked that they also believe the RFP process should include more stakeholder input and should be a more transparent process. But because all bids received were submitted under binding NDAs from bid responders, PSE is legally unable to disclose pricing information until they have commenced a cost recovery proceeding in which the acquisition and bid is included for a prudence review.

As TAG members, we have grave concerns about PSE's lack of responsiveness and transparency in this process. As of this date, we have no response to specific remarks made by TAG members at any of the above referenced meetings, and only an indication that some, but not all of the May 22nd Listening Session stakeholder comments will be included in responses from PSE.

We formally request that PSE post this letter on their 2019 IRP website and provide a written response to these questions:

- Will PSE comply with the Washington Public Counsel Unit's request for disclosure of PSE's current RFP bid data under NDA, and if not, the justification for noncompliance?
- In light of the many energy economist expert projections that renewable energy and energy storage resource prices will continue to decline, will PSE provide substantive data to support its assertions that renewable energy/storage costs will increase during the IRP planning horizon?
- Will PSE provide justification for its assertions that low-cost renewable energy and battery storage is not the most prudent course of action?
- Will PSE provide evidence that responsive demand bids should not be a part of its future RFP inquiries, given that responsive demand will play an integral part in balancing essential flexibility between demand and supply resources?
- Can PSE provide evidence that refutes the projections of the aforementioned industry experts on forward cost reductions for renewable energy and storage?

Respectfully submitted:

Kate Maracas,
Managing Director,
Western Grid Group