



Portland General Electric
121 SW Salmon Street · Portland, Ore. 97204

October 15, 2019

Via Electronic Filing
puc.filingcenter@state.or.us

Public Utility Commission of Oregon
Attn: Filing Center
201 High St., SE. Suite 100
P. O. Box 1088
Salem, Oregon 97308-1088

RE: PGE UE-319 2020 Prospective Research & Development Projects

Enclosed pursuant to OPUC Commission Order 17-511 (UE-319), is Portland General Electric Company's list of prospective Research and Development Projects for 2020.

Should you have any questions or require further information please call me at (503) 464-7002.

All formal correspondence should be e-mailed to pge.opuc.filings@pgn.com.

Sincerely,

A handwritten signature in blue ink that reads "Jay Tinker". The signature is written in a cursive, flowing style.

Jay Tinker
Director, Regulatory Policy & Affairs

Enclosure
JT/lh

cc: Tyler C. Pepple, AWEC
Bob Jenks, CUB

UE-319 Reporting Requirement
PGE's 2020 Prospective R&D Projects
Analysis of EV Charging impact to Power Quality and Loss-of-Life of Service Transformers
Cascadia Lifelines Project
Construction Safety Research Alliance (CSRA)
Customer Flexible Load Resource at Scale
EPRI Combustion Dynamics Training for Online Gas Turbine Assessment
EPRI Community Smart Pole
EPRI Energy Sustainability Interest Group
EPRI Fire Prevention and Mitigation
EPRI Next Generation Smart Meter Vision and Criteria
EPRI P1 Power Quality
EPRI P161 Information and Communication Technology
EPRI P174 Integration of Distributed Energy Resources
EPRI P18 Electric Transportation*
EPRI P180 Distribution Systems
EPRI P183 Cyber Security
EPRI P193B Wind Generation Annual Research Program
EPRI P198 Strategic Sustainability Science
EPRI P200 Distribution Operations and Planning
EPRI P60 EMF and RF Health Assessment and Safety
EPRI P62 Occupational Safety and Health
EPRI P64 Boiler and Steam Turbine Cycle
EPRI P79 – Combined Cycle Turbomachinery
EPRI P88: HSRG and BOP
EPRI P94 Energy Storage and Distributed Generation
EPRI Research and Testing of Alternatives to SF6
HD Charging Infrastructure O&M Strategy and Training
Hydrogen Electrolyzer Feasibility Study
Implementation of CVR in the Test Bed
Integrated Campus Facility and Climate Action Planning (PSU)
Investigating Thermal Energy Storage for Flexible Load and DR Potential in Oregon (OIT)
Investigating Use of Ductile Iron Poles for T&D Infrastructure (OSU)
Investigation on Transient and Steady State Behavior of Microgrids Before, During and After Islanding in Terms of Frequency and Voltage (OIT)
Low Grade Heat Recovery from Carty Plant through Thermochemical Energy Storage (OSU)
NEEA End Use Load Research
OIT Energy Storage-2nd Life Battery
On-Line Boiler Integrity Risk Assessment
OSU MGrid Synchrophasor
Planning for Grid Impacts of High Powered EV Charging (PSU)
Port Westward Iron Transport Evaluation

UE-319 Reporting Requirement
PGE's 2020 Prospective R&D Projects
Repowering Strategies of the Biglow Canyon Wind Plant (PSU)
Shared Circuits to Increase EV Adoption and Limit Residential Transformer Impacts
Sherwood Training Center Energy Storage Demo Project
Smart PDX Air Sensors Partnership
Solar PV Monitoring Data - U of O
Stacked Services from Aggregated Distributed Energy Resources (PSU)
Thermal Plant Drone Applications
WSU Power Engineering Energy Innovation Center Data Access