

The economic study request window is posted on the NorthernGrid website at <https://www.northerngrid.net>

Please return the completed form to: NWPP_NorthernGrid_Staff@westernpowerpool.org

NorthernGrid will undertake up to one Regional Economic Study to be performed each year at no cost to the requestor. Stakeholders may pay NorthernGrid to perform additional studies. Any Economic Study Request that seeks to the performance of individual assets shall not be performed.

Requesting Stakeholder Information

Date:	3/31/2022
Requesting Stakeholder Company:	Black Canyon Hydro, LLC c/o rPlus Hydro, LLLP
Address:	201 S. Main St, Ste 2100
City, State and Zip Code:	Salt Lake City, UT 84111
Contact Person:	Matthew Shapiro
Title:	Chief Executive Officer
Phone Number:	(208) 246-9925
Email:	mshapiro@rplusenergies.com

Describe the requested study of potential transmission solutions that could result in a net reduction in total production cost to supply system load, reduced congestion, or the integration of new resources and/or loads on an aggregate or regional basis.

Seminole Pumped Storage Transmission and Economic Benefits Study

900MW x 10 hours pumped hydro energy storage facility, interconnecting at 500kV at Aeolus Substation, Carbon Co. Wyoming. Projected placed in service date of June 2029. The project would significantly enhance capacity of Gateway transmission to deliver additional high-quality wind energy from WY to UT the PNW. The project can also reduce future congestion on the Gateway System, including at Aeolus, Clover/Mona while accommodating wind expansion in WY; provide shaping and firming of WY wind to meet capacity needs; provide shaping and firming of UT solar via the Clover/Mona area to meet capacity needs; provide system inertia that replaces lost inertia from coal retirements in WY and UT.

The project has a wide range in generation and pumping, up to 900MW, dispatchable.

The project will have 3 units of 300MW ea., variable speed generators that can provide maximum value and flexibility to the operations of the transmission system and integration of intermittent renewable energy generation. The ramp rate is up to 30MW /sec, 0 to full output in 30-60 seconds. The project can generate at full capacity, 900MW for 10 hours, and in pumping mode at 900MW for 13 hours.

Additional technical information will be made available as needed.