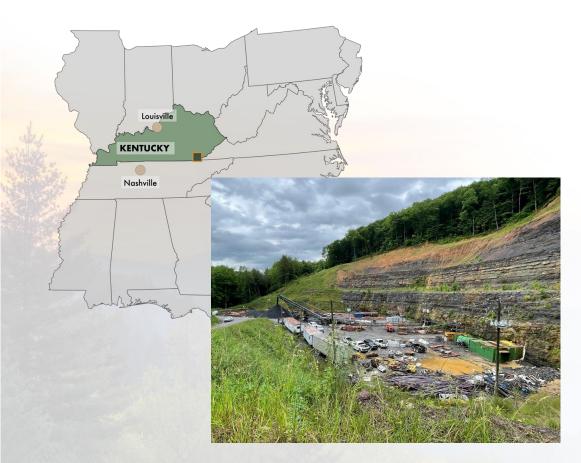


Rye Development Portfolio

- 10 pumped storage projects under development totaling over \$10 billion in investment
 - 18 run-of-river hydroelectric projects, 15 FERC licenses
- Leading private hydrodevelopment platform in the U.S.
- Focus on de-risking project development activities
- Preferred early utility engagement and long-term utility ownership structures



Project Objectives



- Closed Loop Pumped Storage project on mine land
- Up to 8 hours of daily energy storage across multiple markets
- Adding Lewis Ridge into the KY power system enables new renewable generation to be used more effectively







Why Pumped Storage?

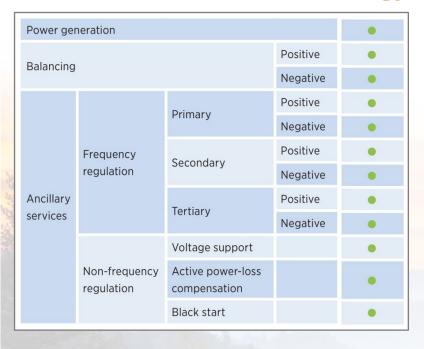


- Pumped storage provides reliable and dependable generation during periods of high energy use
- Pumped storage projects support a grid in transition, providing energy certainty during weather and blackout events, and facilitate optimal operation of baseload resources
- Market demand for renewables, particularly 24/7 and energy storage is projected to grow over the coming decades



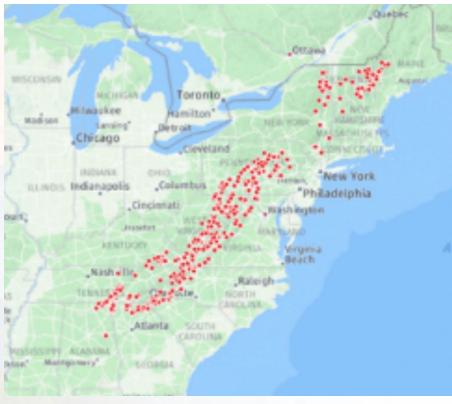
Pumped Storage Opportunity

Proven & Flexible Technology



Project Demand

 Potential PSH sites in the eastern United States



Policy Support

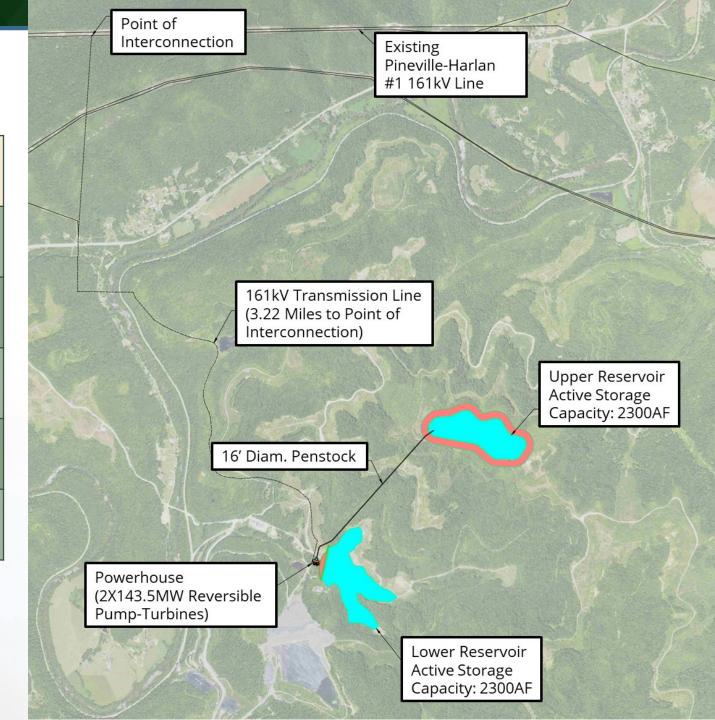
- Tax Incentives:

 Reduction Act provides
 Incentive Tax Credit for
 energy storage projects
- Permitting: The Uncommon Dialogue, a partnership among NGO's, hydro industry and government yielded model legislation to accelerate permitting of lowimpact projects



Lewis Ridge Project Information

Feature	Specification
Active Storage Capacity	2,300 acre-feet
Storage Time	8 hours
Maximum Gross Head	1,125 feet
Installed Capacity	287 MW
Rated Flow	3,480 cfs



Community Needs

The decline of coal mining in Eastern Kentucky has created significant challenges in the region with few economic alternatives, putting many counties, including Bell, at the bottom 10% nationally for 3-year average unemployment rate, per capita market income, and poverty rates.



- Coal production in Eastern Kentucky peaked in 1990.
 Production reduced by 98% by 2022
- Coal employment in the region peaked in 1948 with 66,410 employed, but as of Q4 2022, it was 3,178, a decline of 95%.
- No other significant industry sector has developed naturally or moved into the region.
- Bell County: 32 % living in poverty; per capita income \$17,542 (2022)



Community Benefits Plan

The Lewis Ridge Project will generate

- \$1.5 billion of investment in southeastern Kentucky
- 1,500 family-wage jobs during construction, and another two dozen permanent jobs
- Millions in annual tax revenue for local schools, hospitals, and communities
- Opportunity for underserved, overburdened and disadvantaged communities

Community Benefits Planning

- Partnership with SOAR initiated in 2022
- Access to workers through early collaboration with K-12 schools, community colleges, and trades
- Community and Labor engagement Staff integration with SOAR as project progresses
- Development of Memorandum of Understandings and agreements
- Explicit plants to achieve DEIA and American Workforce goals





Contact Information

Ushakar Jha P.E., V.P. of Project Engineering ushakar@ryedevelopment.com

