



## Duke energy bad creek pumped storage

Duke Energy Corporation Regulated and Renewable Energy 526 South Church Street / EC12Q Charlotte, NC 28202 March 30, 2023 ... Subject: Bad Creek Pumped Storage Project (P-2740-053) Relicensing Study Progress Report No. 1 Dear Secretary Bose: Duke Energy Carolinas, LLC (Duke Energy or Licensee) is the Licensee, owner, and operator of the

Duke Energy operates two pumped-storage plants - Jocassee and Bad Creek. Pumped storage can be employed to capture unused electricity, like that from non-dispatchable renewables like solar, during times of low use. This ability to capture unused electricity, then use that stored energy, helps us minimize carbon emissions created by other ...

Given the need for additional energy storage due to the significant amount of renewable energy generation expected to be added across Duke Energy's service territories during Bad Creek's planned 40- to 50-year operating license, the company is evaluating opportunities to add more pumped storage and generating capacity at the Bad Creek site.

Duke Energy is working to extend the Federal Energy Regulatory Commission operating license of the Bad Creek pumped hydro storage facility, which is set to expire in 2027. In addition to this upgrade project, Duke Energy is evaluating the potential to add a second powerhouse at Bad Creek that would further help Duke Energy add capacity as well ...

Duke Energy welcomes public involvement in the relicensing process. To date, the following public meetings have occurred: Proposed Study Plan Meeting (September 7, 2022) Virtual FERC Scoping Meetings (May 16-17, 2022) Virtual Environmental Review ... Bad Creek Pumped Storage Project.

US-based power firm Duke Energy plans to increase the energy storage capacity of its Bad Creek pumped storage hydroelectric station by 200MW. The expansion is scheduled to start in 2021, and complete in 2024. ... Credit: Duke Energy There are 40 pumped-storage hydropower plants in the US accounting for 97% of the country's energy storage ...

Solar energy is variable; the energy output from an array of solar panels varies based on the position of the sun, cloud cover and more. Pumped-storage hydro power plants like Bad Creek are ideal matches to the ebbs and flows of solar output. "Bad Creek is the great integrator," Pierce said.

Bad Creek Pumped Storage Project. As part of its clean energy transformation and commitment to achieve net-zero carbon dioxide emissions by 2050, Duke Energy is seeking approval from the Federal Energy Regulatory Commission (FERC) to continue operating the Bad Creek Pumped Storage Project for up to 50 years.



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Subject: Bad Creek Pumped Storage Project (P-2 740) Proposed Study Plan Meeting Summary . Dear Secretary Bose: Duke Energy Carolinas, LLC (Duke Energy or Licensee) is the Licensee, owner, and operator of the 1,400-megawatt (MW) Bad Creek Pumped Storage Project (FERC No. 2740) (Project), located in Oconee County, South Carolina.

The pumped storage facility has been a massive part of Duke's energy grid for more than 30 years, but now with the demand for energy in the Carolinas expected to skyrocket over the next 15 years ...

Includes doubling peak hourly capacity of Oconee County's Bad Creek pumped storage facility; Reflects rigorous stakeholder outreach and feedback; GREENVILLE, S.C. - As strong economic development successes and population growth power South Carolina's energy needs, Duke Energy's goal is to ensure energy reliability for its customers.

Upgrades add 320 megawatts of capacity to the company's largest "battery";Bad Creek pumped storage technology supports the operational needs of Duke Energy's system, particularly as more solar is addedThe station can now power more than 1.3 million homes CHARLOTTE, N.C., April 29, 2024 /PRNewswire/ -- As strong economic development ...

Plan calls for an "all of the above" approach to future energy generation Includes doubling peak hourly capacity of Oconee County's Bad Creek pumped storage facility Reflects rigorous stakeholder outreach and feedback As strong economic development successes and population growth power South Carolina's energy needs, Duke Energy's goal is to ensure ...

Bad Creek is a pumped-storage hydro plant, the largest of Duke's hydroelectric plants. A pumped-storage hydro plant rushes water stored at a reservoir at the top of the plant, down through a powerhouse, where the energy of the rushing water turns a turbine to generate electricity, and out into a discharge body of water, in this case Lake ...

The water sits in Duke Energy's Bad Creek pump storage facility. The facility generates and stores energy by moving water back and forth between two reservoirs located ...

If Duke Energy decides to pursue the Bad Creek II Power Complex and obtains all necessary regulatory approvals, construction would span approximately six years. ... Bad Creek Pumped Storage Project. As part of its clean energy transformation and commitment to achieve net-zero carbon dioxide emissions by 2050, Duke Energy is seeking approval ...

Duke Energy Carolinas LLC is weighing whether to expand its Bad Creek Pumped Storage Project to accommodate plans for more solar generation, the utility said in a filing with the Federal Energy Regulatory Commission. ... That notice also included the possibility of building a second powerhouse at Bad Creek, Duke Energy spokesman Ben Williamson ...

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In its Energy Infrastructure Update for August 2018, the Federal Energy Regulatory Commission listed 335 MW of hydro activity: a capacity amendment for the Bad Creek Pumped Storage Project. FERC issued an order to Duke Energy Carolinas LLC for increasing the capacity of the project to 1,400 MW from 1,065 MW. The actual order was issued Aug. 6.

Bad Creek pumped storage technology supports the operational needs of Duke Energy's system, particularly as more solar is added. The station can now power more than 1.3 million homes.

This photo from 2017 shows the upper reservoir at Duke Energy's Bad Creek pumped storage facility when it is drained. When the reservoir is full, Duke pushes water into and out of the facility ...

SALEM -- Duke Energy celebrated recently finished upgrades at its Bad Creek pumped storage facility with a tour. The pumped storage hydroelectric facility is a fascinating feat of engineering which, according to hydro general manager Preston Pierce, is perfectly suited to the Upstate's topography.

The portal is located on the Whitewater River arm of Lake Jocassee. During the refilling of the upper Bad Creek reservoir, the Bad Creek Pumped Storage Facility turbines are reversed to pump water back from Lake Jocassee into the upper Bad Creek reservoir. Bad Creek Pumped Storage Facility began operating in 1991; its FERC license expires in 2027.

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