



# Duke energy notrees wind storage demonstration project

The battery storage system was designed and installed by Texas-based Xtreme Power; the company will continue to handle its operations. Installation of the system was partly-funded by a \$22m from the US energy department. Duke energy's Notrees wind project has an installed capacity of 153MW and is located in the Ector and Winkler counties of ...

The Notrees Project is one of 16 energy storage demonstration projects supported by the Department under its Recovery Act-funded Smart Grid Energy Storage Demonstration Program. The project received \$22 million from DOE, which was matched by \$22 million from Duke Energy, for a total of \$44 million. The system integration was performed by Xtreme ...

Kimberly Nuhfer Project Manager National Energy Technology Laboratory 3610 Collins Ferry Road Morgantown, WV 26507-0880 304-285-6544 Kimberly.Nuhfer@netl.doe.gov Matthew Johnson Principal Investigator Duke Energy Business Services 526 S Church Street Charlotte, NC 28202-1802 704-382-7268 Matthew.Johnson@duke-energy

The energy storage system is part of Duke Energy's Notrees 153 MW wind power project. The 36 MW battery storage system is capable of deploying fast-acting reserves to support ERCOT grid reliability and helping the System Operator maintain supply and demand balance with near-instantaneous feedback of frequency changes or other unexpected events.

Notrees Wind Storage Demonstration Project. [VIEW BUILD METRICS DATA](#) & [VIEW PROJECT DESCRIPTION](#) & Abstract. The Notrees Project will analyze and discern how, when integrated ...

wind energy storage demonstration project at the Notrees Wind power Project in western Texas. The project will demonstrate how energy ... Duke . \$21,806,219 (\$43,612,445) PRIMUS POWER (ZINC-CHLORIDE . FLOW BATT.) 25MW (75MWhr) Renewables : Wind Firming EnergyFarm(TM) - Deploy a 25 MW - 75 MWh EnergyFarm for the Modesto

The objective of the Notrees Wind Storage Demonstration Project is to validate that energy storage increases the value and practical application of intermittent wind generation ...

is an SGDP demonstration that focused on energy storage with Duke Energy at the Notrees wind farm. This case demonstrates a business model of using energy storage to provide ancillary services. The last case study is an SGIG project conducted by Sacramento Municipal Utility District (SMUD) that tests demand response consumer behavior.

CHARLOTTE, N.C. - Duke Energy Renewables, part of Duke Energy's Commercial Businesses, announced today the completion of its 36-megawatt (MW) energy storage and power management system at its Notrees



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Windpower Project in west Texas. The system completed testing and became fully operational in December, 2012. "Battery storage ...

CHARLOTTE, N.C. - Duke Energy's Notrees Battery Storage Project, located in Ector and Winkler counties, Texas, was recently honored with the top utility-scale energy storage innovation award at the 2013 Energy Storage North America (ESNA) Conference and Expo in San Jose, Calif. The project's 36-megawatt (MW) advanced lead acid battery helps smooth the ...

CHARLOTTE, NC - Duke Energy, Samsung SDI and Younicos will team up to update Duke Energy's 36-megawatt (MW) energy storage and power management system at the company's Notrees Windpower Project in west Texas. The system, one of the nation's largest, has been operating since 2012 with lead acid batteries. Over the course of 2016, these ...

Notrees Energy Storage Project Jeff Gates Duke Energy jeff.gates@duke-energy Project Objectives o Use energy storage to increase the ... o Notrees wind farm, owned and operated by Duke Energy Renewables o Located in west Texas -Ector and Winkler Counties o 152.6MW total wind generation

The Notrees Project analyzed and discerned how, when integrated with wind power, energy storage can compensate for the inherent intermittency of this renewable power generation ...

DUKE ENERGY BUSINESS SVCS. (XTREME) 24MW (15MW slow) Renewables and Demand Notrees Wind Storage - Deploy a wind energy storage demonstration project at the Notrees Wind power Project in western Texas. The project will demonstrate how energy storage and power storage technologies can help wind power systems address intermittency issues by

Results from the storage project at Duke Energy's Notrees wind farm will be shared publically through the DOE's Smart Grid Information Clearinghouse. The DOE grant was made possible by the American Recovery and Reinvestment Act of 2009. In January 2011, DOE and Duke Energy agreed upon the terms and conditions of the grant.

The Notrees Wind Storage Demonstration Project installed an advanced battery energy storage system (BESS) with a capacity of 36 MW/24 MWh to optimally dispatch energy production from the wind farm. Such optimization could help energy storage operators capture energy arbitrage, improve grid stability, and demonstrate renewable firming value.

Duke Energy Notrees Windfarm, TX 24MW TBD TBD Duke Energy. \$21.8M \$43.6M. Hazle Spindle, LLC Hazle Township, PA 20MW Beacon Power Flywheel PJM/PPL . ... Notrees Wind Storage Demonstration Project. DOE Smart Grid Demonstration Program Wind Firming EnergyFarm(TM) Primus Power . 2012: EnergyCell . 2013: EnergyPodTM . 2014: shipments start .



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for 16 energy storage demonstration projects. The projects ranged in scope from feasibility studies and technology demonstrations to full-scale, operational energy storage plants. ... 6 PowerCell Modules at the Duke NoTrees Wind Storage Project [5]. . . . . 28 7 Aquion 10 kWh, 1000V ARRA prototype (left), 25 kWh M-Line battery ...

The Notrees Wind Storage Demonstration Project installed an advanced battery energy storage system (BESS) with a capacity of 36 MW/24 MWh to optimally dispatch energy production ...

CHARLOTTE, N.C., Jan. 23, 2013 /PRNewswire/ -- Duke Energy Renewables, part of Duke Energy's Commercial Businesses, announced today the completion of its 36-megawatt (MW) energy storage and power ...

Notrees is an unincorporated community in west-central Ector County, Texas, United States is located on State Highway 302, approximately 20 miles northwest of Odessa. [2] The community is part of the Odessa metropolitan statistical area.. The area began to develop in the 1940s following the discovery of large oil fields, including the TXL Field.

Notrees Wind Storage Project Description Jeff Gates Duke Energy. November 3, 2010. ... EPRI will work with Duke Energy to: Finalize project management plan Assist with the technical design Conduct system performance testing and analysis 9: Title: Slide 1 Author: t69270 Created Date:

Energy Storage at Duke Energy Tom Fenimore, PE Emerging Technology Office September 18 th, 2014. Technology ... demonstration projects . installed . functions . Six different . battery chemistries . tested . 5. ns How did ... Notrees Wind Farm Project. Notrees, TX ...

Abstract. The American Recovery and Reinvestment Act (ARRA) of 2009 (Recovery Act) provided funding for 16 energy storage demonstration projects. The projects ranged in scope from ...

Notrees Wind Storage Demonstration Project Project Description The Notrees Project will analyze and discern how, when integrated with wind power, ... Duke Energy Business Services 526 S Church Street Charlotte, NC 28202-1802 704-382-7268 Matthew.Johnson@duke-energy

The American Recovery and Reinvestment Act of 2009 (ARRA) provided funding for Smart Grid Demonstration Program projects across the United States. The table below contains the title, Headquarters location, and funding information for each project. ... (Flywheel Energy Storage Demonstration) California: \$3,694,660. \$7,457,590. ... Duke Energy ...

Energy Storage Demonstration Projects: a. Program-Level SGDP Reports - Energy Storage: ARRA Energy Storage Demonstration Projects: Lessons-Learned and Recommendations - June 2015: b. Cost-Benefit Analysis for Energy Storage Projects ... Duke Energy Business Services, Notrees Wind Storage, Interim



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Report - November 2013:

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