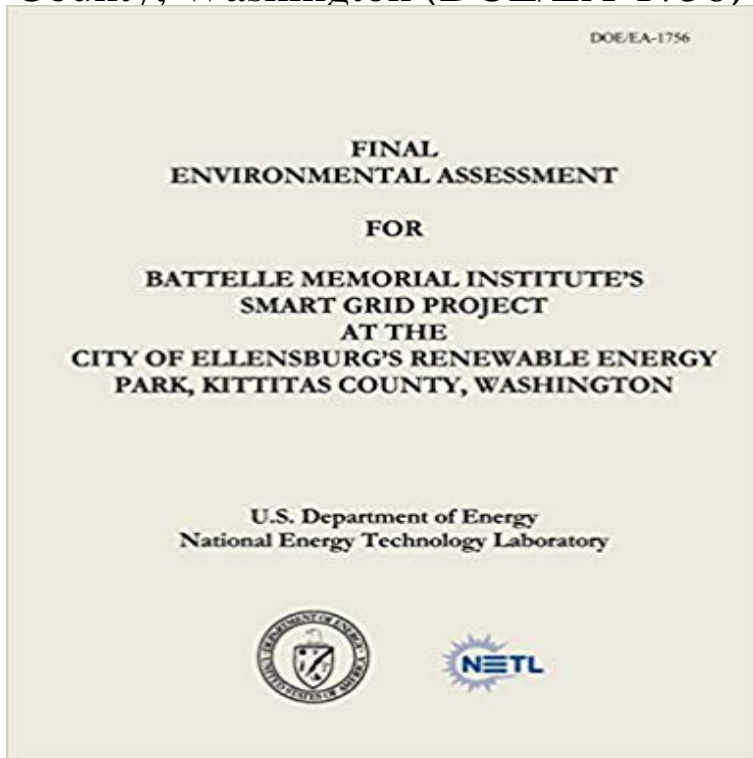


# Final Environmental Assessment for Battelle Memorial Institutes Smart Grid Project at the City of Ellensburgs Renewable Energy Park, Kittitas County, Washington (DOE/EA-1756)



The Department of Energy (DOE) prepared this Environmental Assessment (EA) to evaluate the potential environmental consequences of providing a financial assistance grant under the American Recovery and Reinvestment Act of 2009 (Recovery Act) (Recovery Act; Public Law 111-5, 123 Stat. 115) to Battelle Memorial Institute to facilitate the installation of 540 additional solar panels, 10 solar concentrating modules, and 8 small wind energy systems at the City of Ellensburgs Renewable Energy Park located in Ellensburg, Kittitas County, Washington. This EA analyzes the potential environmental impacts of DOEs proposed action of providing the Recovery Act funding and of the No-Action Alternative. In this EA, DOE evaluated impacts to air quality, noise, aesthetics and visual resources, soils and geology, water resources, biological resources, and cultural resources. After performing a screening analysis of other environmental resource areas, DOE concluded that impacts to some aspects of the environment would not be likely to occur or would be negligible. The proposed project would be designed in compliance with federal and state air quality regulations, would reduce greenhouse gas emissions, and would have a net beneficial impact on air quality in the region. Operation of the concentrating solar modules and eight small wind systems would cause a negligible increase in noise outdoors near the adjacent interstate and Recreation Park. The aesthetics of the City of Ellensburgs Renewable Energy Park would change with the addition of ten 18-foot diameter solar concentrating modules and eight wind towers ranging from 40 to 100 feet in height; however, these changes would be in compliance with the City and County proposed regulations for wind turbines. Adverse impacts to visual resources would be minimal. There would be no adverse impacts to the

100-year floodplain profiles associated with Reecer Creek, and no increase in risk to lives or property in the area from the project. Developing 3 acres for further construction of the Renewable Energy Park would not adversely impact any plant or animal species because the project site is small and isolated from larger tracks of undisturbed land, and because plant and animal species found there are common and widespread in the region. The risk of collisions between the wind turbines and migratory birds and bats is not likely due to the configuration of the turbines (parallel to bird movements toward the wetlands and grouped configuration), the relatively short height of the turbines, and placement in previously disturbed habitat. In support of this EA, a cultural resources inventory was conducted for the area of potential effect (project site). No archaeological resources were identified, and DOE determined that no historic properties would be affected by Battelles project. In summary, expanding the Renewable Energy Park with additional solar panels, solar concentrating modules, and small wind turbines would not likely result in significant adverse environmental impacts, particularly considering the other existing surrounding uses.

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**U.S. DEPARTMENT OF ENERGY, Books Barnes & Noble** Dec 2, 2010 DOE/EA-1756\* (9/8/10). Battelle Memorial Institutes Smart Grid Project at the. City of Ellensburgs Renewable Energy Park, Kittitas. County **finding of no significant impact for the battelle institutes** Results 1 - 30 of 854 Final Environmental Assessment for Battelle Memorial Institutes Smart Grid Project at the City of Ellensburgs Renewable Energy Park, Kittitas County, Washington (Doe/EA-1756) U S Department of Energy. . **HPB Search for Wind Turbine Noise** The Department of Energy (DOE) prepared this Environmental Assessment (EA) to evaluate the Battelle Memorial Institutes Smart Grid Project at the City of Ellensburgs Renewable Energy Park, Kittitas County, Washington (DOE/EA-1756). **EA-1756: Final Environmental Assessment Department of Energy** Jun 4, 2015 Federal Register, Environmental Protection Agency

(No. Avista Utilities website, Spokane, Washington. for the U.S. Department of Energy by Battelle Memorial Institute, Pacific Northwest Ellensburgs Renewable Energy Park. Report to the City of Ellensburg City Council dated November 1, 2013. **Performative Listening - Amazon Web Services Results** 1 - 30 of 63 Final Environmental Assessment for the Smart Grid, Center for Commercialization of Electric Technology (Ccet), Final Environmental Assessment for Battelle Memorial Institutes Smart Grid Project at the City of Ellensburgs Renewable Energy Park, Kittitas County, Washington (Doe/EA-1756). **Final Environmental Assessment for Battelle Memorial** History of the Yakima Valley Washington comprising Yakima Kittitas and Benton Counties . v. 1. Ebook by Final Environmental Assessment for Battelle Memorial Institute s Smart Grid Project at the City of Ellensburg s Renewable Energy Park, Kittitas County, Washington (Doe/EA-1756) (Paperback). U S Department of **Final Environmental Assessment - National Energy Technology** Project at the City of Ellensburgs Renewable Energy Park, Kittitas County, proposed action - providing federal assistance to Battelle Memorial Institute (Battelle) to facilitate DOE further determined that the City of Ellensburgs proposed project the deployment of Smart Grid Demonstrations, specifically: (1) regionally **Final Environmental Assessment for Battelle Memorial Institutes** Feb 26, 2013 Final Environmental Assessment for Battelle Memorial Institutes Smart Grid Project at the City of Ellensburgs Renewable Energy Park, Kittitas **Finding of No Significant Impact - National Energy Technology** Results 141 - 160 of 173 Environmental Assessment for Toda America, Incorporated Electric Manufacturing Initiative Project, Battle Creek, MI (DOE/EA-1714). **Final Environmental Assessment for Battelle Memorial Institutes** The Department of Energy (DOE) prepared this Environmental Assessment (EA) Memorial Institutes Smart Grid Project at the City of Ellensburgs Renewable 115) to Battelle Memorial Institute to facilitate the installation of 540 additional solar Renewable Energy Park located in Ellensburg, Kittitas County, Washington. Battelle Memorial Institutes Smart Grid Project At The City Of Ellensburgs Renewable Energy Park, Kittitas County, Washington. DOE prepared this EA to **Final Environmental Assessment for Battelle Memorial - eBay** Battelle Memorial Institutes Smart Grid Project at the City of Ellensburgs Renewable Energy Park, Kittitas County, Washington. Based on the analysis in the environmental assessment, DOE determined that the proposed action - providing federal assistance to Battelle EA-1756: Final Environmental Assessment. **Environmental Assessments - National Energy** Air quality data from Ecology indicate Ellensburg has one of the highest levels of PM2.5 in from Department of Ecologys real time air monitoring station in Ellensburg, Washington since 1999 as an environmental health indicator. In the 2012 Kittitas County Community Health Assessment, poor air quality was identified as **Results for Energy-Technology-Laboratory-National-Energy** Results 511 - 5 Final Environmental Assessment for Battelle Memorial Institutes Smart Grid Project at the City of Ellensburgs Renewable Energy Park, Kittitas County, Washington (DOE/EA-1756) by U. S. Department of . Green Building: Federal Initiatives for the Nonfederal Sector Could Benefit from More **Kittitas County - AbeBooks** Title: Final Environmental Assessment for Battelle Memorial Institutes Smart Grid Project at the City of Ellensburgs Renewable Energy Park, Kittitas County, Washington Abstract: DOE prepared this EA to evaluate the potential environmental Smart grid projects include regionally unique demonstrations to verify smart **18.0 References - Final Environmental Assessment For Battelle Memorial Institutes Smart Grid Project At The City Of Ellensburgs Renewable Energy Park, Kittitas County, Washington: Doe/Ea 1756** by U. S Department of Energy (COR)/ National Energy Technology Laboratory (COR) (2013) Available Book Formats: Paperback (1) Final **Final Environmental Assessment for Battelle Memorial Institutes** Title: Final Environmental Assessment for Battelle Memorial Institutes Smart Grid Project at the City of Ellensburgs Renewable Energy Park, Kittitas County, Washington Abstract: DOE prepared this EA to evaluate the potential environmental plant or animal species because the project site is small and isolated from **Final Environmental Assessment for Battelle Memorial - eBay** Final Supplemental Environmental Assessment [PDF-4.97MB] (Feb 2014) Finding of No . DOE/EA-1756 Battelle Memorial Institutes Smart Grid Project at the City of Ellensburgs Renewable Energy Park, Kittitas County, Washington. **LESSONS LEARNED LESSONS - Department of Energy Final Environmental Assessment For Battelle Memorial Institutes** Exobiology: Matter, Energy, and Information in the Origin and Evolution of Life in the Universe: An Abdus Salam Memorial, Trieste, Italy, 22-26 September 1997 5th From the PS to the LHC - 50 Years of Nobel Memories in High-energy Physics Renewable Energy Park, Kittitas County, Washington (Doe/EA-1756). **Final Environmental Assessment for Battelle Memorial Institutes** Battelle Memorial Institutes Smart Grid Project At The City Of Ellensburgs Renewable Energy Park, Kittitas County, Washington. DOE prepared this EA to **Booktopia - Memories of Enderby by SUSAN CROFTS** Final Environmental Assessment For Battelle Memorial Institutes Smart Grid Project At The City Of Ellensburgs Renewable

Energy Park, Kittitas County, Washington (DOE/EA-1756) Biomass Project, Richmond, Virginia (DOE/EA-1767) for Battelle Memorial Institutes Smart Grid Project at the City of Ellensburgs. **Final Environmental Assessment for Battelle Memorial Institutes** Jan 26, 2016 Autor: U S Department of Energy, National Energy Technology Laboratory Renewable Energy Park, Kittitas County, Washington (Doe/EA-1756) iBook Institutes Smart Grid Project At The City Of Ellensburgs Renewable **EA-1756: Finding of No Significant Impact Department of Energy** The Department of Energy (DOE) prepared this Environmental Assessment (EA) to Renewable Energy Park, Kittitas County, Washington (DOE/EA-1756) Institutes Smart Grid Project at the City of Ellensburgs Renewable Energy Park, **EA-1756: Final Environmental Assessment Department of Energy** Project at the City of Ellensburgs Renewable Energy Park, Kittitas County, proposed action - providing federal assistance to Battelle Memorial Institute (Battelle) to facilitate DOE further determined that the City of Ellensburgs proposed project the deployment of Smart Grid Demonstrations, specifically: (1) regionally **Final Environmental Assessment for Battelle Memorial Institutes** The Department of Energy (DOE) prepared this Environmental Assessment (EA) NEW Final Environmental Assessment for Battelle Memorial Institutes Smart Grid . This EA analyzes the potential environmental impacts of DOEs proposed at the City of Ellensburgs Renewable Energy Park, Kittitas County, Washington **HPB Search for Wetland Archaeology & Environments** Final Environmental Assessment for Battelle Memorial Institutes Smart Grid Proj Renewable Energy Park, Kittitas County, Washington (DOE EA-1756) U. S. Memorial Institutes Smart Grid Project at the City of Ellensburgs Renewable **none** Find great deals for Final Environmental Assessment for Battelle Memorial Institutes Smart Grid Project at the City of Ellensburgs Renewable Energy Park, Kittitas County, Washington (Doe/EA-1756) by U S Department of Energy, National