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BLACK & VEATCH CORPORATION | 2 Cost Estimates and Performance Data for Conventional Electricity Technologies.

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20. Table 10. Cost and Performance Projection for a Pulverized Coal-Fired Power Plant (455 MW) with Carbon Capture and Sequestration Year Capital Cost (\$/kW) Variable O&M (\$/MWh) Fixed O&M (\$/kW-yr)

**NREL Cost Report - BT Projects**  
National Renewable Energy Laboratory.

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Black & Veatch. (2007). Arizona Renewable Energy Assessment Final Report. Kolb G, Jones S, Donnelly M, Gorman D, Thomas R, Davenport R, Lumia R. (June 2007). Heliostat Cost Reduction Study. SAND2007-3293. Sandia National Laboratories. (PDF 2.48 MB)

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## **CSP Cost Data - System Advisor Model (SAM)**

The Renewable Electricity Futures Study (RE Futures) is an investigation of the extent to which renewable energy supply can meet the electricity demands of the continental United States over the next several decades. This study explores the implications and challenges



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of very high renewable electricity generation levels—from 30% up to 90% ...

## **Renewable Electricity Futures Study | Energy Analysis | NREL**

This is the introduction to the NREL report, “Cost and performance data for power generation technologies.” Black &

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Veatch contracted with the National Renewable Energy Laboratory (NREL) in 2009 to provide the power-generating technology cost and performance estimates described in this report.

**NREL issues cost and performance data for power generation ...**  
Technical Report. NREL/TP-5000-66599 .

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September 2016 . 2016 Offshore Wind Energy Resource Assessment for the United States Walt Musial, Donna Heimiller, Philipp Beiter, ... technical potential resource area using a database developed by Black & Veatch (Black & Veatch 2010). These same exclusions were used to compute the energy supply curves in

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## **2016 Offshore Wind Energy Resource Assessment for ... - NREL**

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Black & Veatch is pleased to offer the 2019 Strategic Directions: Electric Report, available now for download.

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## **2019 BLACK & VEATCH STRATEGIC DIRECTIONS:Electric Report**

Black & Veatch. (2012). Cost and Performance Data for Power Generation Technologies. Prepared for the National Renewable Energy Laboratory. Black & Veatch Holding Company. Retrieved from ... References SOLAR FARMS 1217

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## **References SOLAR FARMS 1217 - Drawdown**

Black & Veatch Building a world of difference; National Renewable Energy Laboratory; Keywords Electricity generation costs, electricity generation, costs, costs biopower, costs gas, costs

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nuclear, costs hydro, costs wind, costs geothermal, costs solar, LCOE, levelized costs File name nrel-cost-report.pdf

## **COST AND PERFORMANCE DATA FOR POWER GENERATION TECHNOLOGIES**

CAPital EXpenditures (CAPEX): Historical Trends, Current Estimates, and Future



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Projections. Because natural gas plants are well-known and perform close to their optimal performance, the EIA capital expenditures (CAPEX) projections decline at the minimum learning rate for the gas-fired technologies, resulting in incremental improvement over time that progresses slightly more quickly than inflation.

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## **2018 ATB - National Renewable Energy Laboratory**

CAPEX Definition. Capital expenditures (CAPEX) are expenditures required to achieve commercial operation in a given year. Overnight capital costs are modified from EIA (2017). Capital costs include overnight capital cost plus

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defined transmission cost, and it removes a material price index.. Fuel costs are taken from EIA (2017).EIA reports two types of gas-CT and gas-CC technologies in EIA's ...

### **2018 ATB - National Renewable Energy Laboratory**

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PAGE 6 OF 10 IPCC. (2012). Special report on renewable energy sources and climate change mitigation (SRREN). New York, NY: Cambridge University Press.

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FINAL REPORT RENEWABLE ENERGY  
ASSESSMENT PREPARED FOR San

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Francisco Public Utilities Commission 10  
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## **REPORT RENEWABLE ENERGY ASSESSMENT - San Francisco**

Black & Veatch and Schneider Electric  
are designing and constructing an  
energy security microgrid at Marine  
Corps Air Station Miramar, in San Diego,

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California. Once fully operational, the microgrid solution will provide resiliency, incorporate renewable energy, and allow operations at mission-critical facilities to continue if the utility power grid is compromised or damaged.

**Marine Corps Air Station Miramar ...  
- Black & Veatch**

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Now Available. Smarter infrastructure, with data at its core, will play a crucial role in overcoming varied threats to our water supply. Built on data collected in our annual survey of water industry leaders, Black & Veatch's upcoming 2019 Strategic Directions: Water Report finds that a new culture of data science can extend our water supply to drive

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sustainability and resilience.

## **2019 BLACK & VEATCH STRATEGIC DIRECTIONS: Water Report**

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Hours of storage, h 4 . SIMPLIFIED MS  
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## **DOE CSP SUNSHOT - Energy.gov**

Many of the assumptions on wind resource, wind capital cost forecasts, wind turbine performance improvements, and conventional

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generation cost forecasts used in the 20 percent report were developed by Black & Veatch. This report documents the assumptions used by Department of Energy and the National Renewable Energy Laboratory (NREL) in their ...

### **20% Windpower by 2030**

This report describes the Western

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Renewable Energy Zones (WREZ) Initiative Phase 1 Qualified Resource Area identification process, including the identification and economic analysis of Qualified Resource Areas (QRAs) and 'non-REZ' resources. These data and analyses will assist the Western US in its renewable energy transmission planning goals.

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## **Western Renewable Energy Zones, Phase 1: QRA ...**

Scientists at the National Renewable Energy Laboratory (NREL) have fabricated a new solar cell with an efficiency of nearly 50%. The six-junction solar cell designed by the scientists is touted to have the highest solar

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conversion efficiency at 47.1%, measuring under concentrated lighting.

### **NREL scientists design new solar cell with nearly 50% ...**

The Natural Gas Gamble | 5 •

Concentrating solar power (CSP) plants.

The EIA assumed that CSPs lack storage.

We assume CSPs will include six hours of

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storage. We therefore include higher costs and capacity factors than the EIA did. We base our assumptions on data developed by Black & Veatch (2012) for NREL's

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