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1 Introduction. Black & Veatch contracted with the National Renewable Energy Laboratory (NREL) in 2009 to provide the

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power generating technology cost and performance estimates that are described in this report. These data were synthesized from various sources in late 2009 and early 2010 and therefore reflect the environment and thinking at that time or somewhat earlier, and not of the present day.

NREL Cost Report - BT Projects

Black & Veatch chose a

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100 MW parabolic trough plant with 6 hours of storage as the representative CSP plant to focus the results of the study. Cumulative deployment scenarios of 2,100 MW and 4,000 MW between 2008 and 2020 were assumed. Based on estimates provided by the National Renewable Energy Laboratory (NREL), future CSP

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Economic, Energy, and Subcontract Report - NREL

The direct incremental cost associated with high renewable generation is comparable to published cost estimates of other clean energy scenarios. Improvement in the cost and performance of renewable technologies is the most impactful lever for reducing this

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incremental cost. ...
NREL Technical Report
(2018) ... Black &
Veatch report that ...

Renewable Electricity Futures Study | Energy Analysis | NREL

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

CSP Cost Data - System Advisor Model (SAM)

NREL is a national
laboratory of the U.S.
Department of Energy,
Office of Energy
Efficiency & Renewable
Energy, operated by

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the Alliance for
Sustainable Energy,
LLC. National
Renewable Energy
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www.nrel.gov. Contract
No. DE
-AC36-08GO28308 .
Cost and Performance

**Cost and
Performance
Assumptions for
Modeling ... - NREL**

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This report benchmarks U.S. solar photovoltaic (PV) system installed costs as of the first quarter of 2018 (Q1 2018). We use a bottom-up method, accounting for all system and project-

U.S. Solar Photovoltaic System Cost Benchmark: Q1 2018 - NREL

The Energy
Department's National
Renewable Energy

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Laboratory (NREL) has released the 2017 Annual Technology Baseline (ATB), updating a key source of reliable electricity generation technology cost and performance data used to support and inform electric sector analysis in the United States.

**NREL Updates
Baseline Cost and
Performance Data
for ...**

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Black & Veatch:
Climate Change, Global
Pandemic Highlight
Water Industry's Need
for Greater Resilience
Through Planning,
Digital Water Programs
Tuesday, June 16, 2020
Overland Park, Kansas
news

Homepage | Black & Veatch

Data sources include
the ATB, Black &
Veatch , Entergy
Arkansas, Varro and

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Ha, and Lazard . All sources have been normalized to the same dollar year. Costs vary due to differences in system design, methodology, and plant cost definitions.

Nuclear - National Renewable Energy Laboratory

SOLAR FARMS

Drawdown Technical
Assessment and Model
References AMPERE.

(2014). AMPERE

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Database, Regions
Definitions, EU FP7
AMPERE Project.
Retrieved from:

References SOLAR FARMS 1217 - Project Drawdown

Levelized Cost of
Energy (LCOE)
Projections. Levelized
cost of energy (LCOE)
is a summary metric
that combines the
primary technology
cost and performance
parameters; CAPEX,

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O&M, and capacity factor. It is included in the ATB for illustrative purposes.

Nuclear - National Renewable Energy Laboratory

Data sources include the ATB, (Black & Veatch, 2012), (Lazard, 2016), (Zoelle et al., 2015), and (Rubin, Davison, & Herzog, 2015). Lazard (2016) does not explicitly define its ranges with

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and without CCS; thus, the high end of their pulverized coal and IGCC ranges and the low end of their IGCC-CCS range are assumed to be the middle of the full ...

Coal - National Renewable Energy Laboratory

CAPEX Definition.

Capital expenditures (CAPEX) are expenditures required to achieve commercial

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operation in a given year. Overnight capital costs are modified from EIA (2017). Capital costs include overnight capital cost plus 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**

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2019 Water Report.
Black & Veatch's 2019
Strategic Directions:
Water Report finds that
a new culture of data
science can extend our
water supply to drive
sustainability and
resilience. Just as
manufacturing and
industry have
embraced the Internet
of Things to connect
technologies and add
value to our daily lives,
data "has woven itself

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into the central fabric
of our water economy.”

Strategic Directions Reports | Black & Veatch

CAPital EXpenditures
(CAPEX): Historical
Trends, Current
Estimates, and Future
Projections. Because
natural gas plants are
well-known and
perform close to their
optimal performance,
the EIA capital
expenditures (CAPEX)

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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.

2018 ATB - National Renewable Energy Laboratory

Cost and Performance
Data for Power
Generation
Technologies, Prepared
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OFFSHORE WIND TURBINES REFERENCES

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FEBRUARY 2020 PAGE
1 OF 9 ONSHORE WIND
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Wind Energy Helps
Build a More Reliable
and

ONSHORE WIND TURBINES REFERENCES

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

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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 analysis and modeling for the 20 percent report.

20% Windpower by 2030

Black & Veatch Holding
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