Public Utility Data Liberation (PUDL)

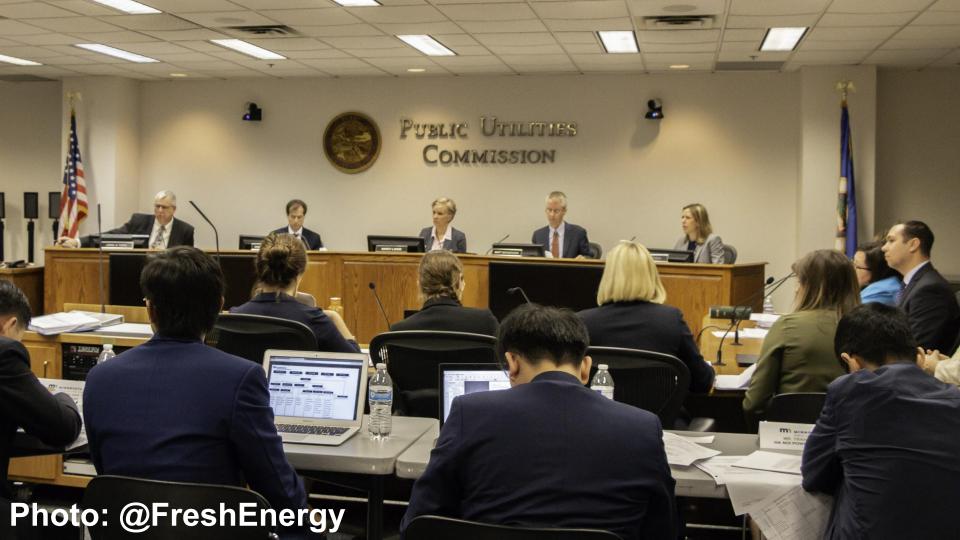
@ZaneSelvans
Chief Data Wrangler
Catalyst Cooperative



Christina Gosnell @cmgosnell President, Catalyst Cooperative









Unit one of the V.C. Summer Nuclear Station near Jenkinsville, S.C., photographed on Sept.

If yIf y

SOUTH CAROLINA SPENT \$9 BILLION TO DIG A HOLE IN THE GROUND AND THEN FILL IT BACK IN



February 6 2019, 3:00 a.m.

THE OBJECTION RAISED most frequently when it comes to a Green New Deal is its cost. It's preposterous; it's too expensive; we just can't afford it.

But before scoffing at the prospect of the wealthiest nation in the history of the world funding such a project, it's worth taking a look at what one of the country's poorest states was recently able to spend.

South Carolina, in a bid to expand its generation of nuclear power in recent years, dropped \$9 billion on a single project — and has nothing to show for it.



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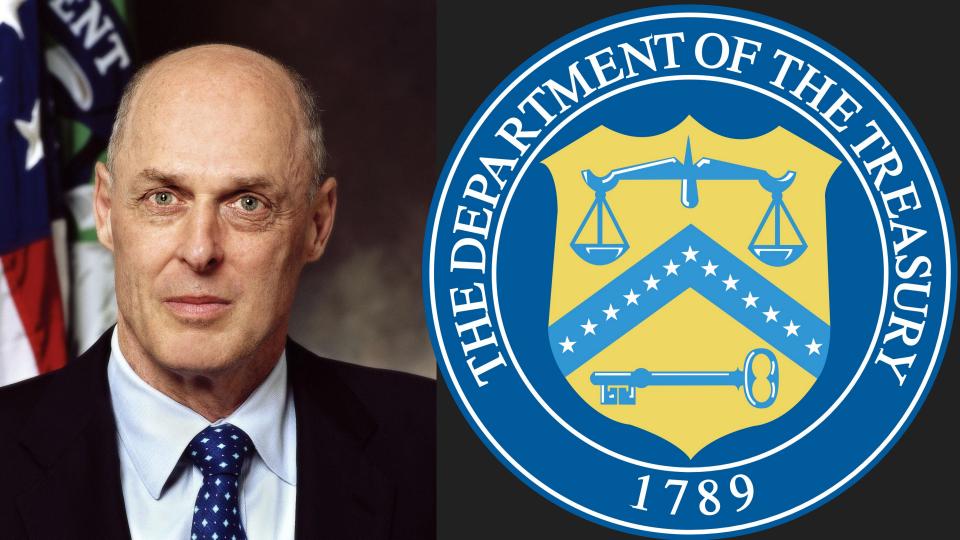
Regulators suggest \$7.5 billion coal gasifier facility give up, burn natural gas

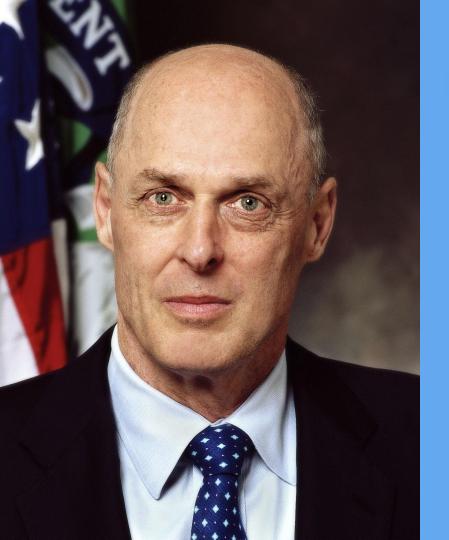
After years of delays and cost overruns, Southern Company's plant may be a bust.

MEGAN GEUSS - 6/26/2017, 1:00 PM

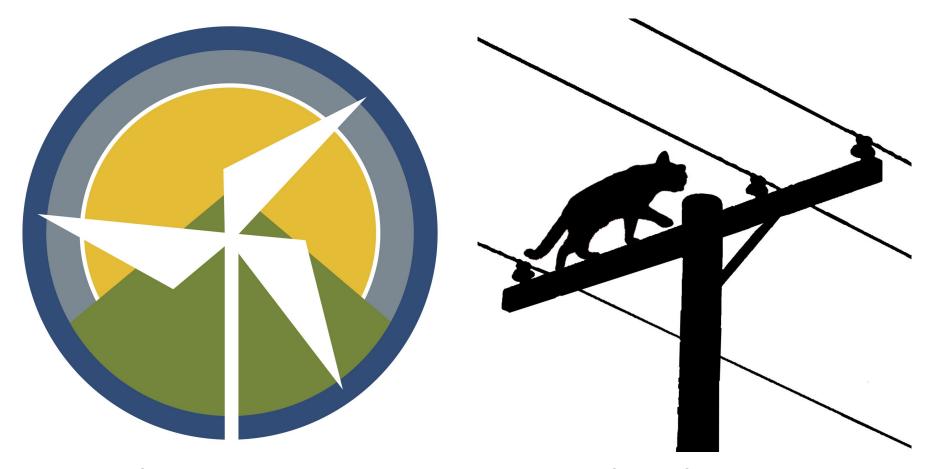


Enlarge / Cranes stand at the construction site for Southern Co.'s Kemper County power plant near Meridian, Miss., on Tuesday, Feb. 25, 2014.





Goldman Sachs



Clean Energy Action http://cleanenergyaction.org

Catalyst Cooperative https://catalyst.coop



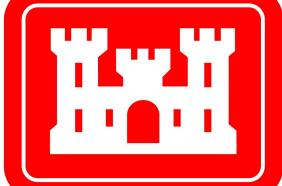


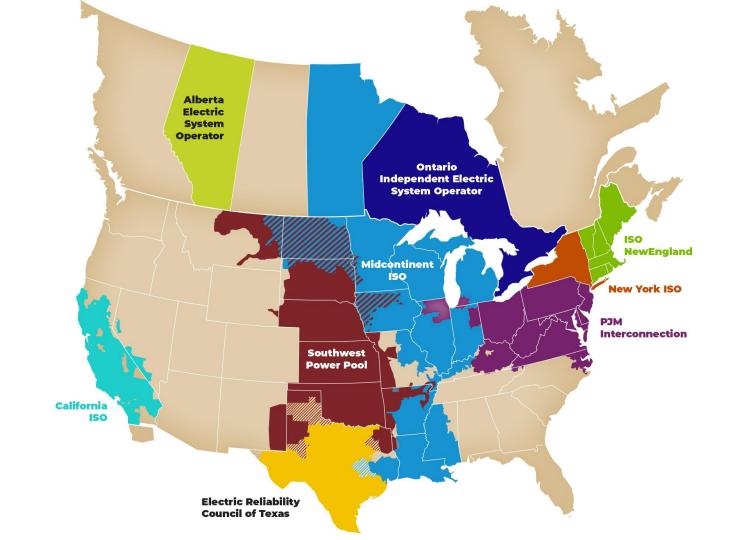
PHMSA











S&P Global

Market Intelligence





6,890 views | Jan 9, 2019, 07:40am

Closing Colorado Coal Would Save \$2.5 Billion. A New Proposal Could Unlock The Coal-To-Clean Shift.



Energy Innovation: Policy and Technology Contributor ① Energy

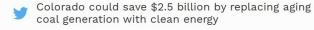
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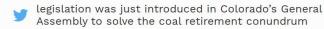
Silvio Marcacci

Silvio is **Communications Director** at Energy Innovation, where he leads all **media relations** and communications efforts.



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6,890 views | Jan 9, 2019, 07:40am



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FOSSIL FUELS

Colorado May Have a Winning Formula for Managing Early Coal Plant Retirements

Under legislation pending in Colorado, utilities could issue ratepayer-backed bonds to reduce the cost of retiring aging power plants and fund transition assistance.

JUSTIN GERDES

MARCH 25, 2019



Colorado could save \$2.5 billion by replacing aging coal generation with clean energy



legislation was just introduced in Colorado's General Assembly to solve the coal retirement conundrum



Democrats pass bills aimed at addressing climate change <u>A</u>

For carbon emitters: House Bill 1261 sets a goal of the state reducing greenhouse gas emissions by 26% by 2025; 50% by 2030; and 90% by 2050 and allows the state to propose new regulations to achieve them.

For those interested in reducing greenhouse-gas emissions: Senate Bill 236 reauthorizes the Public Utilities Commission and requires it to consider the cost of carbon when evaluating future energy projects. Additionally, Senate Bill 96 will require the state's Air Quality Control Commission to collect data on greenhouse gas emissions in the state and to predict future emissions.

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Colorado M Managing E

Under legislation pend reduce the cost of retir

JUSTIN GERDES

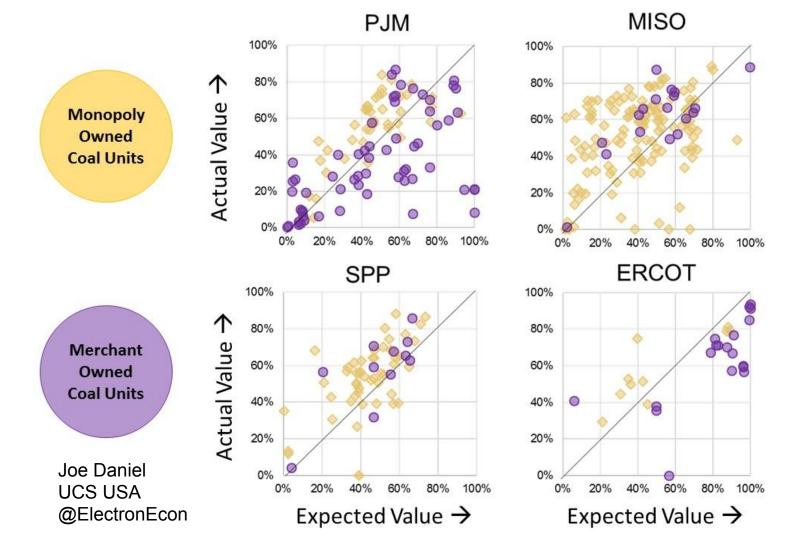
MARCH 25, 2



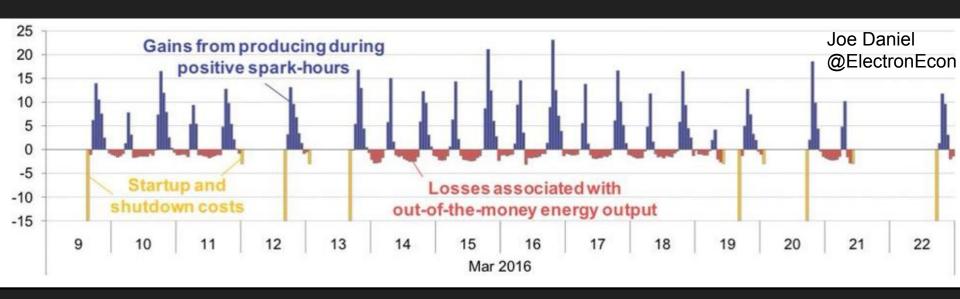
Xcel Energy's coal-fired Comanche Generating Station, located in Pueblo, is the largest power plant in the state of Colorado. The facility can generate 1,410 megawatts of power. (Mike Sweeney, Special to The Colorado Sun)

Formula for irements

epayer-backed bonds to ion assistance.



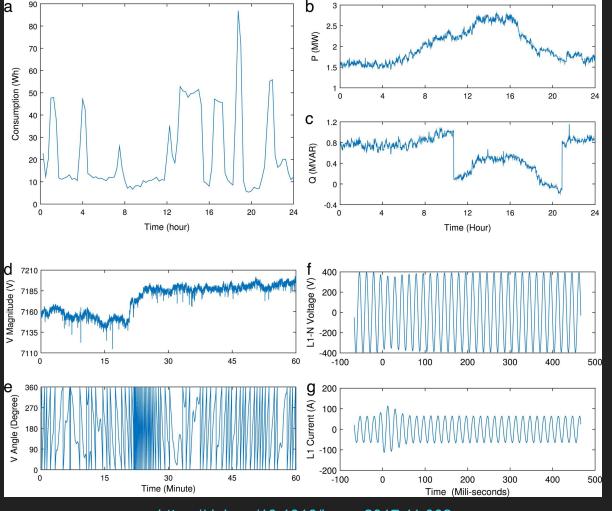
Adversarial Generation Portfolios



https://www.nasuca.org/nwp/wp-content/uploads/2018/01/NASUCA-Coal-bailout-nobody-is-talking-about.pdf



https://spectrum.ieee.org/energy/the-smarter-grid/when-power-lines-break-a-new-control-system-keeps-the-sparks-from-flying



https://doi.org/10.1016/j.egyr.2017.11.002



Original Pipeline: From Mess to Postgres



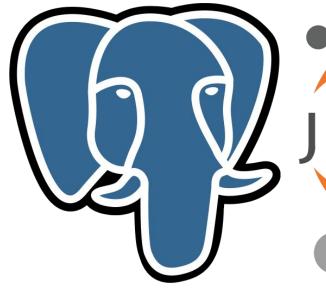
















Data extraction, tidying & error correction (ETL)

Storage in an RDBMS (Postgresql)

Analysis in Jupyter Notebooks



New Pipeline: Meet users where they're at.





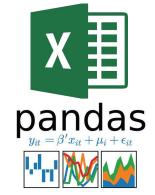














Heterogeneous Analysis

Platforms



Data extraction, tidying & error correction (ETL)

Storage, interchange, & archiving in Tabular Data Packages

Next Step: Archival Analyses





CLIMATE POLICY INITIATIVE







