

Data Visualization Team Project

Coal versus Renewables



News > World > Americas

Donald Trump promises to bring back coal jobs but experts disagree

Lifting a moratorium against leases for coal mining on public lands will not create demand for coal

Darryl Fears | Wednesday 29 March 2017 14:45 BST | 🗀



Energy experts give Trump the hard truth: You can't bring coal back

Coal wasn't killed by a political "war"—cheap renewables and fracked gas were the culprits.



Target audience

TRUMP'S ADMINISTRATION

DEFENSE

TREASURY

H.H.S.

COMMERCE

JAMES MATTIS



STEVEN MNUCHIN



TOM PRICE WILBUR

C.I.A.

H.U.D.

TRANSPORTATION

ADMINISTRATOR OF

THE S.B.A

U.N.

EDUCATION



MIKE POMPEO



DR. BEN CARSON



NIKKI Haley

E.P.A

U.S. AMBASSADOR

TO CHINA

BETSY DEVOS

DEVOS

ATTORNEY GENERAL

.

JEFF SESSIONS



ELAINE CHAO



SCOTT PRUITT

GOV. TERRY

BRANSTAD



CHEIF STRATEGIST

STEVE BANNON

NATIONAL SECURITY ADVISOR



RETIRED LT. GEN
MICHAEL
FLYNN

DEPUTY NATIONAL SECURITY ADVISOR

KT MCFARLAND

LINDA MCMAHON

DEPUTY COMMERCE SECRETARY

TODD RICKETTS

CRETART

SEEMA VERMA

CMS ADMINISTRATOR



REINCE PRIEBUS

CHIEF OF STAFF

LABOR

ANDY Puzder







Apurva Hooli



Ekta Ratanpara



Krithika Narayanswamy Subramanyam



Shreya Prabhu

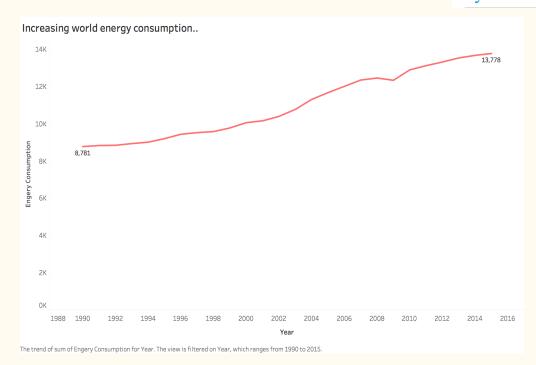


Sapthami Shetty

Increasing Energy Consumption

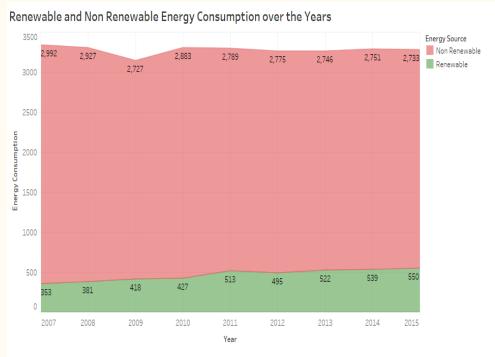
JULY 25, 2013

EIA projects world energy consumption will increase 56% by 2040



Renewable and Nonrenewable Energy Consumption





The plot of sum of Energy Consumption for Year. Color shows details about Energy Source. The view is filtered on Energy Source and Year. The Energy Source filter keeps Non Renewable and Renewable. The Year filter ranges from 2007 to 2015.

Claim: Renewables would be the fastest growing source of electricity consumption

Shift towards renewables:

- Cost-efficient
- Improved public health and environmental quality
- Inexhaustible energy supply
- Reliable and resilient energy sources
- Creating more jobs!!

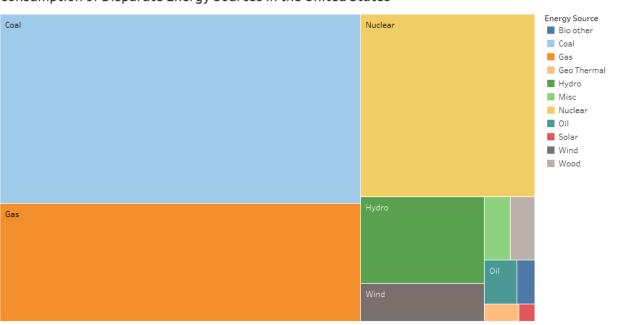
Ref: http://www.ucsusa.org/clean-energy/renewable-energy/public-benefits-of-renewable-power#.WT8iAevyvIV

U.S. Energy Consumption by sources



Consumption of Disparate Energy Sources in the United States

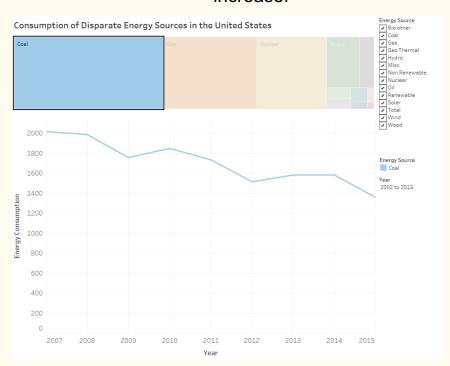


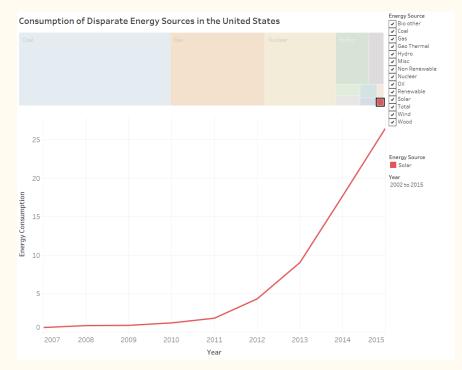


Energy Source. Color shows details about Energy Source. Size shows sum of Energy Consumption. The marks are labeled by Energy Source. The data is filtered on Year, which ranges from 2002 to 2015. The view is filtered on Energy Source, which excludes Non Renewable, Renewable and Total.

Decreasing Coal Consumption vs Increasing Solar Consumption

Claim: Energy Consumption from Coal is reducing while consumption from solar energy sees rapid increase.



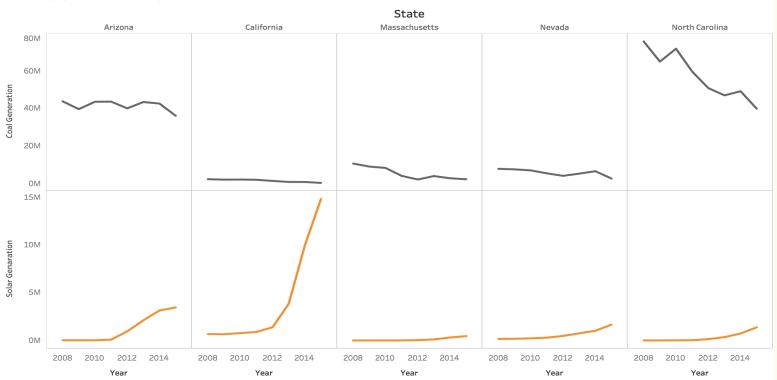


State wise comparison of Electricity Generation

Claim: More and more states shifting their focus towards solar energy for electricity generation.

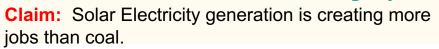


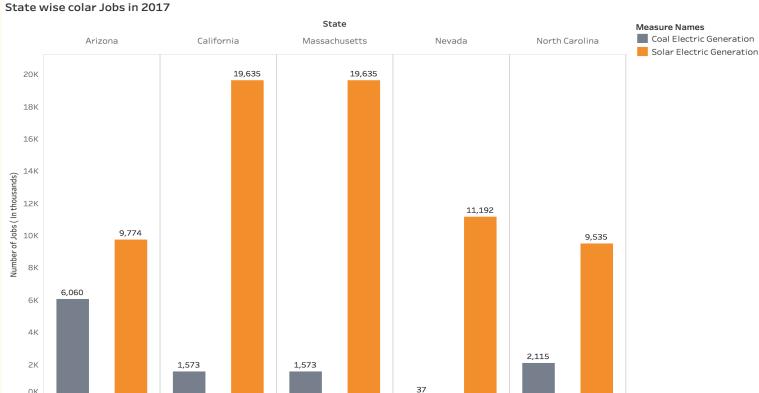




The trends of sum of GENERATION (Megawatthours) and sum of GENERATION (Megawatthours) (StatewiseSolarData.csv) for Year broken down by State. The data is filtered on Action (Year) and Action (State). The Action (Year) filter keeps 8 members. The Action (State) filter keeps 5 members.

Electric Power Generation Employment







7 factor evaluation to measure energy efficiency



Claim: It's not favorable to bring coal back

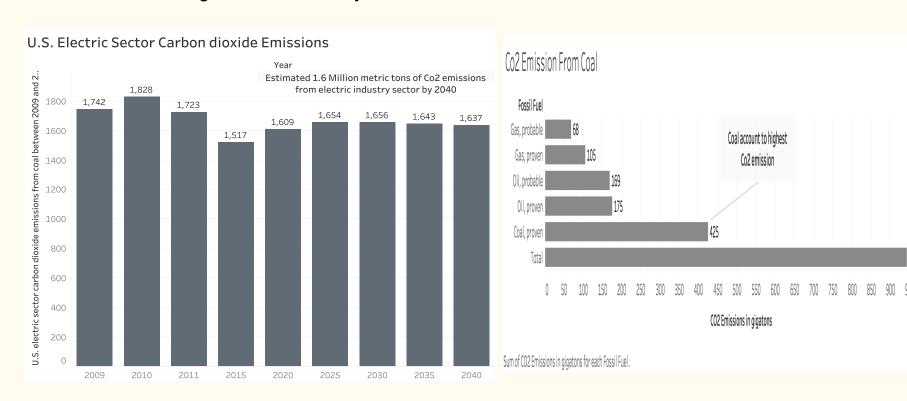


Sum of Electricity Generation (color) and sum of Electricity Generation (size) broken down by Energy Source vs. Factor. The view is filtered on Factor and Energy Source. The Factor filter keeps 7 of 7 members. The Energy Source filter keeps 9 of 9 members.

Environmental Impact by Energy Sources



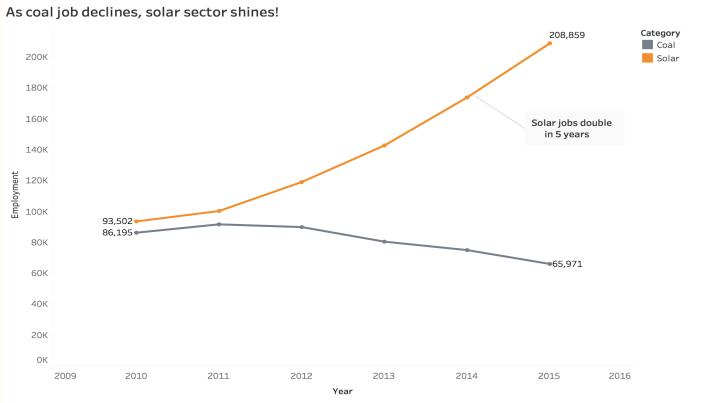
Claim: Coal Industry's contribution to the CO2 emissions are significant and is very detrimental to the environment



Analysis on Job Industry

Claim: Today's energy jobs are in Solar and not in coal





The trend of sum of Employment for Year. Color shows details about Category. The data is filtered on Action (Year), which keeps 6 members.

The New York Times

Today's Energy Jobs Are in Solar, Not Coal

By NADJA POPOVICH APRIL 25, 2017

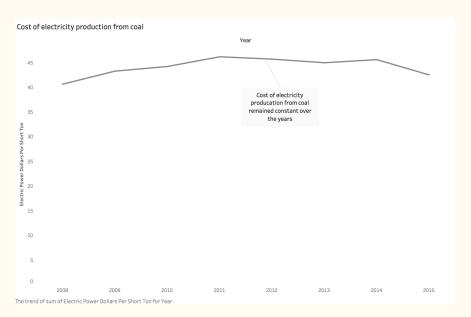


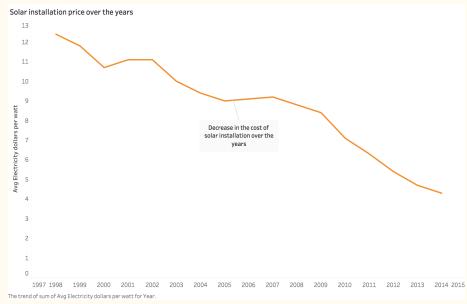
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How much it costs to produce electricity?



Claim: Solar installing cost is decreasing rapidly







"As compared to coal, Solar energy wins on price, job opportunities and low environment impacts."



