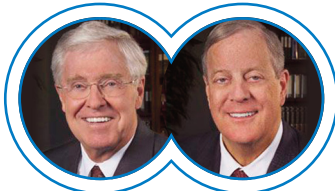


J
O
K
E
R



CHARLES G. KOCH and DAVID H. KOCH

The Koch brothers spend billions fueling climate denial as the owners of Koch Industries (an oil company). Their support of the Keystone XL pipeline has been unabashed, especially since Koch Industries leases 1.1 million acres of land in the Canadian oil sands.



R
E
K
O
J

J
O
K
E
R



JOHN S. WATSON
CEO & Chairman, Chevron Corporation

In terms of sheer CO₂ emissions and general pollution, Chevron Corporation is the undisputed king. According to the journal Climate Change, Chevron Corporation was responsible for 3.53 percent of the total global pollution; more than ConocoPhillips and the National Iranian Oil company combined.



R
E
K
O
J

A
ASH



Ash

Coal ash is the largest type of trash in the world. Burning coal produces more than 100 million metric tons of ash annually. The latest Clean Air Task Force report shows 7,500 deaths annually can be attributed to coal plants in the United States.

ASH
A

A
SPILLS



Spills

Since 1973, enough oil to fill 692 Olympic-size swimming pools has been emptied into U.S. waters; two-thirds of which consist of dense, heavy varieties that can persist for decades.

SPILLS
A

A
FRACKS

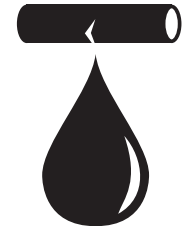


Fracks

Fracking uses 2-5 million gallons of local freshwater per well – up to 100 times more than traditional extraction methods.

FRACKS
A

A
LEAKS



Leaks

The energy transportation network of the United States consists of over 2.5 million miles of pipelines, which is enough to circle the earth about 100 times.

LEAKS
A

ASH

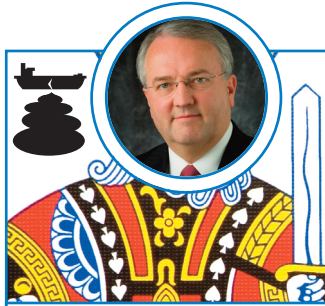


GOV. PAT MCCRORY
North Carolina

Gov. McCrory approved a bill that exempted Duke Energy from any costly cleanup of contaminated groundwater from its Dan River coal ash spill, which dumped 82,000 tons of ash into the area's drinking water. McCrory is a former, 28-year, employee of Duke Energy.

ASH

SPILLS



JACK GERARD
CEO, American Petroleum Institute

Under Gerard's leadership, the API spends millions creating doubt about fossil fuel-driven climate change, and spent more than \$22 million on the Keystone XL since 2008. For big oil, no spill can't be spun with a little cash.

SPILLS

FRACKS



PRESIDENT BARACK OBAMA

During his 2014 State of the Union address, President Obama supported natural gas as a "...bridge fuel that can power our economy... if extracted safely." How exactly does one inject thousands of gallons of chemical water into the ground, potentially contaminating groundwater, safely?

FRACKS

LEAKS



RUSS GIRLING
CEO, TransCanada

With a terrible safety record in its first Keystone pipeline, Girling and company have spent millions lobbying Congress to approve a bigger pipeline to carry the dirtiest oil on the planet.

LEAKS

ASH



LYN GOOD
CEO, Duke Energy

Good worked to minimize Duke Energy's liability from lawsuits and cleanup costs related to its coal ash spills, instead passing those costs along to the people of North Carolina.

ASH

SPILLS

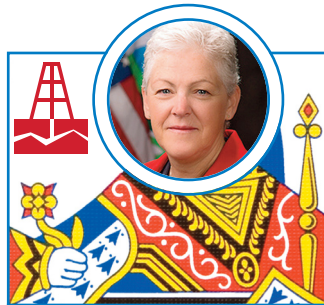


SEN. MARY LANDRIEU
Louisiana

Sen. Landrieu has received close to half a million dollars in campaign contributions from the oil and gas industry since 2009. In May 2013, Landrieu sought to lift BP's new offshore drilling ban just three years after the Deepwater Horizon Oil Spill.

SPILLS

FRACKS



GINA MCCARTHY
Administrator,
Environmental Protection Agency

Despite water contamination in TX, PA and WY, and health and pollution issues elsewhere, McCarthy claims fracking is a safe, low-emission extraction method and refuses to investigate.

FRACKS

LEAKS



CINDY SCHILD
American Petroleum Institute

Schild never misses an opportunity to exalt the benefits of the Keystone XL pipeline, the many jobs it will create and the tremendous benefits it will provide the American people, except that all were proven false.

LEAKS

ASH 



SEN. JOE MANCHIN
West Virginia

Sen. Manchin has made his political career railing against the EPA's regulation of mountaintop removal mining, and has received over \$1 million in campaign contributions from the mining and electric power industries.

ASH 


SPILLS 

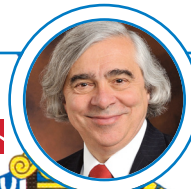


REX TILLERSON
CEO, ExxonMobil

A spill here, a spill there. Twenty-five years after the Exxon Valdez spill, the company has still not paid up for the spill while continuing to spill oil across the ocean today.


SPILLS 


FRACKS 




SEC. ERNEST MONIZ
U.S. Department of Energy

All hail Secretary Moniz for his belief that the "natural gas boom is helping the nation battle climate change," ignoring potent methane leaks at well sites. He's even claimed, "I still have not seen any evidence of fracking per se contaminating groundwater."


FRACKS 


LEAKS 



REP. JOE BARTON
Texas

Rep. Barton has received more than \$2.1 million in contributions from fossil fuels companies and votes with and for Big Oil 100 percent of the time. Perhaps most incredibly, he apologized to BP during the hearing on their 4.9 million barrel oil spill.


LEAKS 


10 

ASH

10%

The percentage of school-age children with asthma. Hundreds of thousands of Americans suffer asthma attacks, cardiac problems and respiratory problems from power plant pollution each year. Continuance of current coal pollutions levels will result in \$100 billion in annual health costs.


ASH 


10 

SPILLS

10%

The amount of oil generally recovered from a marine oil spill.


SPILLS 


10 

FRACKS

10 times

On average, shale gas wells produce about 10 times more wastewater than conventional wells.


FRACKS 

10 

LEAKS

10 hours

The length of Suncor Energy Inc.'s March 25, 2013, leak of 350 thousand liters of industrial waste into the Athabasca River in Alberta, Canada.

LEAKS 

ASH 

9 times

The EPA reports that residents living near coal ash ponds, even when properly contained, are nine times more likely to develop cancer than those who smoke a pack of cigarettes each day.

ASH 

SPILLS 

9x9 ft.

The dimensions of an oil slick from BP's 2010 oil spill in the Gulf of Mexico that washed ashore at Pensacola Beach February 27, 2014, nearly four years later.

SPILLS 

FRACKS 

9%

The percentage of Dallas' annual water consumption that was used for fracking in the Barnett Shale in Texas in 2010.

FRACKS 

LEAKS 

9 years

The time since Hurricane Katrina reportedly damaged about 300 inland pipelines along the Gulf of Mexico, which resulted in more than 11 million gallons of oil spilled in Louisiana alone.

LEAKS 

ASH 

8 million

The number of Americans who live within three miles of a coal plant, putting them at risk for health complications from chemical emissions.

ASH 

SPILLS 

8 years

The number of years since 1975 during which no crude oil was spilled via rail in the U.S. With the Alberta Tar Sands development, last year's spills added up to 1.15 million gallons of crude.

SPILLS 

FRACKS 

8%

Fracking releases up to eight percent of the extracted methane directly into the atmosphere. Methane contributes to 44 percent of global warming.

FRACKS 

LEAKS 

8%

Amidst all the promises of U.S. energy independence, only eight percent of the oil flowing through the Keystone XL pipeline would potentially remain in the U.S.

LEAKS 

7
ASH

7 in 10

Seven of every 10 coal plants discharge ash and scrubber wastewater without restrictions on common toxins such as arsenic, lead and mercury.

ASH
7

7
SPILLS

7 spills

Of all railroad oil spills during 2004-2014, seven of the worst have occurred in the last three years.

SPILLS
7

7
FRACKS

7 times

The amount of times more likely oil and gas workers are to die on the job as compared to the national average. Transporting water for fracking requires workers to drive long hours, making them vulnerable to deadly accidents.

FRACKS
7

7
LEAKS

7 years

The amount of time TransCanada predicted would pass before Keystone XL's sister pipeline, Keystone I pipeline, would leak. It leaked 12 times within its first year of operation.

LEAKS
7

6
ASH

6 in 10

The percent of West Virginians who says lobbyists have "too much power to prevent common-sense protections and regulations."

ASH
6

6
SPILLS

6 years

The number of years since President Obama promised to rid Americans of the "tyranny of oil."

SPILLS
6

6
FRACKS

6 people

The number of Americans out of every ten surveyed that are unfamiliar with the term fracking, according to a University of Texas study.

FRACKS
6

6
LEAKS

6 times

Due to the higher operating temperature of tar sands pipelines, (130 - 159 degrees Fahrenheit), they are six times more likely to leak and spill oil from any cause (corrosion, damage, etc.) than pipelines operating under 70 degrees Fahrenheit.

LEAKS
6

ASH 

5 metric tons

The amount of CO₂ released per year by the average passenger vehicle. Coal power plants alone released about 1.5 billion metric tons in 2012, equaling the annual emissions of 300 million cars.

ASH 

SPIILLS 

5 states

Five states were directly affected by the 2010 BP oil spill in the Gulf of Mexico: Louisiana, Alabama, Mississippi, Texas and Florida.

SPIILLS 

FRACKS 

5%

The percentage of fracking wells that leak immediately.

FRACKS 

LEAKS 

5%

The percent of oil leaks that remote sensing technology detected from 2002-July 2012. More than 90 percent of leaks were identified by physical observation, complaints, calls and non-automatic processes.

LEAKS 

ASH 

4 billion liters

The amount of fly ash slurry that was released at the Kingston Fossil Plant in Tennessee – the largest fly ash release in the U.S.

ASH 

SPIILLS 

4 years

Nearly four years have passed since the Deepwater Horizon oil spill in the Gulf of Mexico, which stands as the largest marine oil spill in the industry's history. It gushed for 87 days, discharging 210 million gallons of oil.

SPIILLS 

FRACKS 

4%

The percentage of fracking wells in California where water competition is stable. The overwhelming majority, 96 percent, are in areas where water competition is high.

FRACKS 

LEAKS 

4 times

Northwestern United States pipelines, which primarily transport tar sands, experience four times the national average of oil leaks per mile.

LEAKS 

ASH



3rd place

The ranking that the February ash spill in Eden, North Carolina received out of the nation's worst coal slurry spills since 2000. The leak released 74,000 metric tons of sludge.

ASH



SPILLS



3 barrels

The average number of barrels of fresh water needed to produce one barrel of oil from tar sands.

SPILLS



FRACKS



3 decades

The number of decades it takes for 60 percent of fracking wells to fail.

FRACKS



LEAKS



3 million metric tons per year

The minimum amount of greenhouse gas that would be emitted if the Keystone XL pipeline is completed.

LEAKS



ASH



2 billion metric tons

The amount of carbon emissions per year from U.S. coal and gas-fired power plants, making up 40 percent of the energy sector's carbon footprint.

ASH



SPILLS



2 million gallons

The amount of chemical dispersants used to clean up the BP oil spill. The toxins in chemical dispersants have profound health consequences with one component, polycyclic aromatic hydrocarbons (PAHs), known to cause cancer and developmental disorders.

SPILLS



FRACKS



2 million gallons

The minimum amount of water used to frack a well. Generally contractors use 2-8 million gallons, with some wells requiring more.

FRACKS



LEAKS



2 million gross barrels

The amount of hazardous liquids leaked from U.S. pipelines since the Department of Transportation's Pipeline & Hazardous Materials Safety Administration (PHMSA) started recording incidents in 1994.

LEAKS

