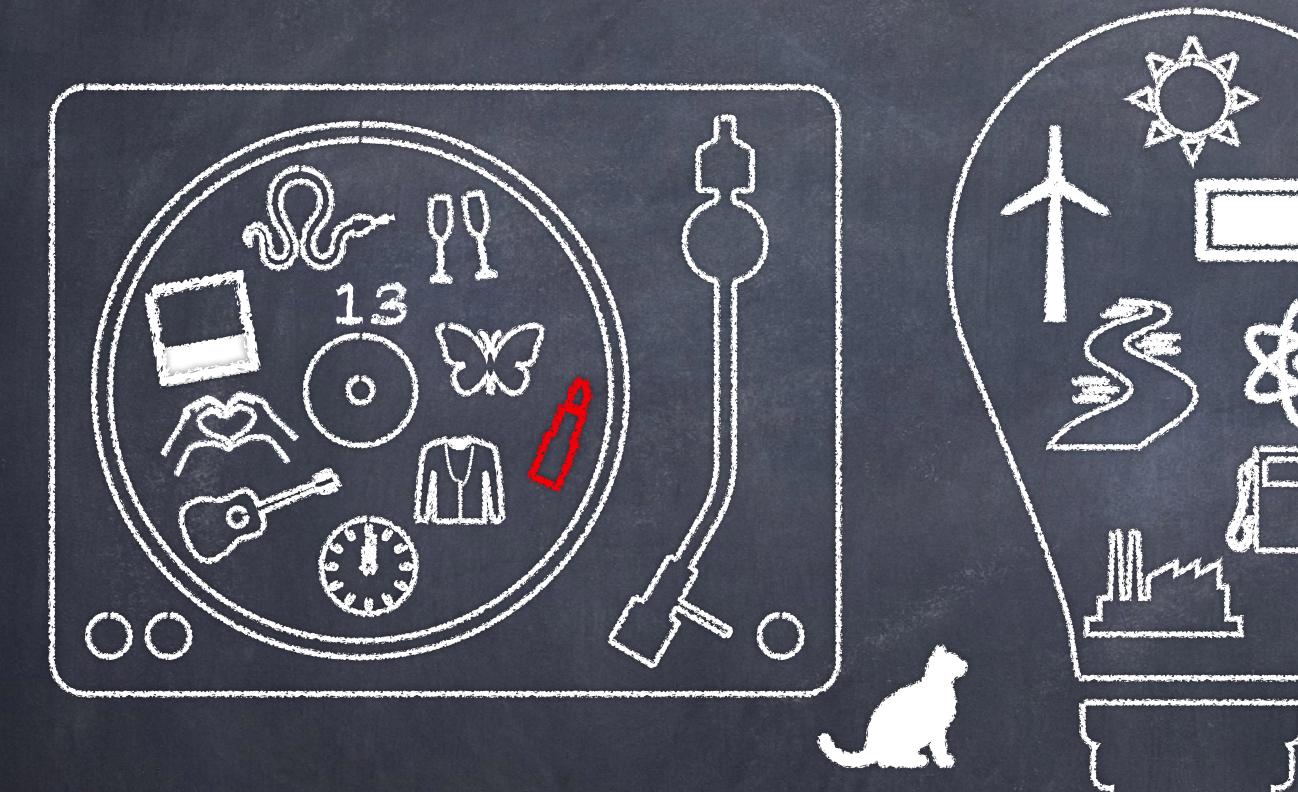
# The eros of the

A Public Power Underground interview of Katherine Blunt

### The electric sector is evolving like the eras of Taylor Swift





- o Debuted in niche markets
- @ Cross-over increased awareness and popularity
- o Steepless nights are a cautionary tale



13) Never ever ever,
getting back together

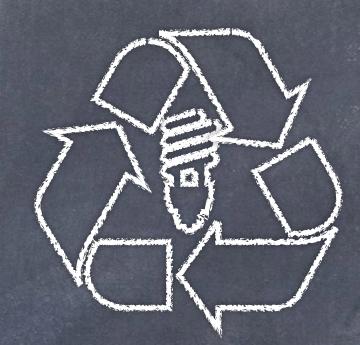
# The eras of the electric sector



Insull era



Electrification
era



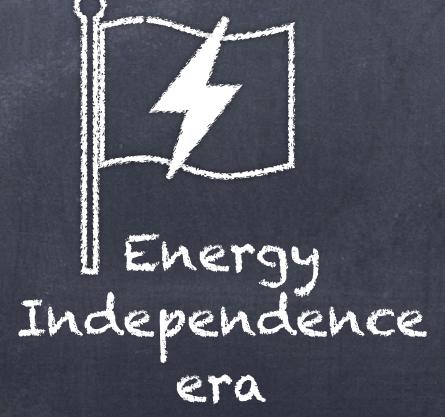
Efficiency era



Deregulation



Power Crisis Era





Global era

# The Insull Era is the self titled album era of Taylor Swift



#### Electric Industry

War of the Currents (Edison championing DC vs Testa & Westinghouse championing AC)



Taylor Swift (2006)

Picture to Burn

1935 Public Utility Holding Act of 1935

Our Song

#### TASILL ETO

#### Pacific Gas & Electric

1904 Western Power Co

1905 PG&E (California Gas & Electric)

1912 Public Utilities Act of 1912

1925 Great Western acquired by North American Company

1930 Railroad Commission approves PG&E acquisition of Great Western



#### Electric Industry

War of the Currents (Edison championing DC vs Testa & Westinghouse championing AC)

1935 Public Utility Holding Act of 1935

# The Electrification Era is the Fearless era of Taylor Swift

#### Electric Industry

1933 formation of the Tennessee Valley Authority and Bonneville Power Administration

1936 Rural Electrification Act

Fearless

Love Story

You Belong With Me

We Were Happy



1979 Three Mile Island accident

### Electrification tra

#### Pacific Gas & Electric

1946 CPUC replaces Railroad Commission

1952 PG&E awarded Charles A Coffin Award most ambitious expansion effort ever undertaken in the industry.

1968 San Onofre SCE and SGEE collaboration



#### Electric Industry

1933 formation of the Tennessee Valley Authority and Bonneville Power Administration

1936 Rural Electrification Act

1979 Three Mile Island accident

# The Efficiency Era is the Folklore era of Taylor Swift



#### Electric Industry

1973 Oil Embargo

1977 Jimmy Carter's Sweater Speech

1992 Energy Policy Act

#### Folklore

the last great american dynasty

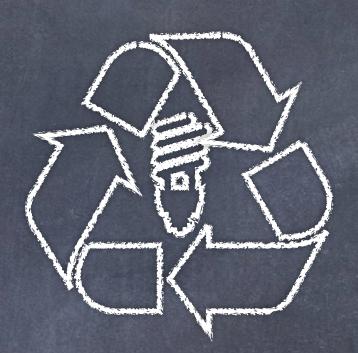
cardigan

this is me trying

## E CELENCY ENO

#### Pacific Gas & Electric

1985 Diablo Canyon finished PG&E



#### Electric Industry

1973 Oil Embargo

1991 California rates were 50 percent above the national avg

1992 Energy Policy Act

# The Deregulation Era is the Speak Now era of Taylor Swift

#### Electric Industry

Speak Now

1978 PURPA stimulates domestic energy production by seeding a nascent wholesale electricity market by encouraging companies other than utilities to build wind solar or gas plants.

Sparks Fly

1992 Energy Policy Act

Mine

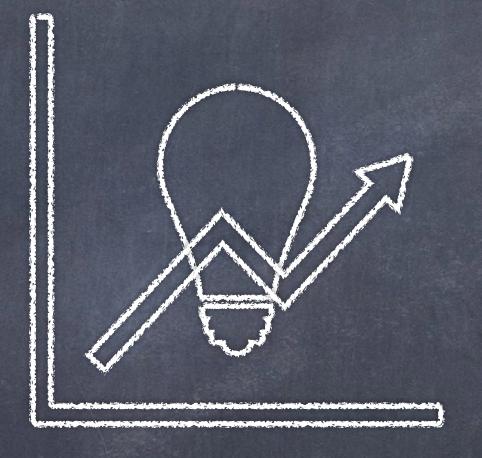
2001 Enron: The smartest guys in the room

Better Than Revenge

### Deregulation Era

#### Pacific Gas & Electric

- percent above the national avg.
  - 1996 CA Deregulation bill passed
- 1997 Enron buys PGE in Oregon
- 1998 March power exchange began processing trades
- 2000 power becomes much pricier



#### Electric Industry

1978 PURPA stimulates domestic energy production by seeding a nascent wholesale electricity market by encouraging companies other than utilities to build wind solar or gas plants.

1992 Energy Policy Act

2001 Enron: The smartest guys in the room

### The Power Crisis Era is the Midnights era of Taylor Swift

#### Electric Industry

2000 - 2001 Western Energy Crisis

2003 Northeast Blackout



#### Midnights

Anti-Hero

Lavender Haze

You're On Your Own, Kid Vigilante \$#!T

Bejeweled Karma

b 2005 Energy Policy Act



#### rower creses tra

#### Pacific Gas & Electric

2000 (June) Heat wave PGEE cuts power to customers rolling blackouts

2000 (Fall) Utilities running out of money to purchase power

2001 (Jan) Enron traders/ blackouts/SCE and PG&E default on power purchases

2001 (April) PG&E files for bankruptcy protection



#### Electric Industry

2000 - 2001 Western Energy Crisis

2003 Northeast Blackout

2005 Energy Policy Act

### The Energy Independence Era is the Reputation era of Taylor Swift



#### Electric Industry

2005 Energy Policy Act

2008 U.S. Shale Revolution

2009 American Recovery and Reinvestment Act

2020 FERC Order 2222

2022 Inflation Reduction Act



End Gan

Delicate

Don't Blame Me

This Is Why We Can't Have Nice Things

Dancing With Our Hands Tied

Look What You Made Me Do



## Energy Independence Era

#### Pacific Gas & Electric

2002 Senate Bill 1078 establishing Renewable Portfolio Standard (RPS)

2015 SB350. Renewable energy target raised to 50% by 2030

2022 SB 1030. Requires 90% renewable energy and zero-carbon electricity by 2035, 95% by 2040 and 100% by 2045

#### Electric Industry

2005 Energy Policy Act

2008 U.S. Shale Revolution

2009 American Recovery and Reinvestment Act

\* 2022 Inflation Reduction Act

### The Global Era is the Red era of Taylor Swift



#### Electric Industry

2018 Corpus Christi Liquified Natural Gas (LNG) terminal begins exporting



2021 February Texas Uri

2021 June heat dome in Pacific Northwest

2022 Russian Invasion of Ukraine

#### Red

I knew You Were Trouble

We Are Never Ever Gelting Back Together

Everything Has Changed (feat. Ed Sheeran)

## Calobal (Warming) Era

#### Pacific Gas & Electric

2014 Bark Beetle and Drought

2017 Santa Rosa fire

2018 PG&E's first Public Safety Power Shutoff

2018 Sierra Nevada deadliest wildfire in CA history Paradise 84 ppl burned to death

2019 (January) PG&E files for bankruptcy protection

2020 (June) PG&E pleads guilty to 84 counts of involuntary manslaughter

2021 Dixie Fire -> "bury the lines"



#### Electric Industry

2018 Corpus Christi Liquified Natural Gas (LNG) terminal begins exporting

2019 Freeport LNG terminal export capability became operational

2021 February Texas Uri

2021 June heat dome in Pacific Northwest

2022 Russian Invasion of Ukraine

# The eras of the electric sector as Taylor Swift albums



Insull era



Electrification era



Efficiency



Deregulation era



Power Crisis Era



era Global



Taylor Swift (2006)



Fearless



Folklore



Speak Now



Midnights



Reputation



era

Red

### Crystal's Timeline (Phone Notes)

- @ 1904 western Power Co
- 1905 PG&E (California Gas & Electric and SF gas & Electric)
- 1912 public Utilities Act of 1912
- 1925 Great Western acquired by North American
   Company
- 1930 Railroad Commission approves PG E
  acquisition of Great Western
- o 1935 Black president
- @ 1946 CPUC replaces Railroad Commission
- 1952 PG EE awarded Charles A Coffin Award most ambitious expansion effort ever undertaken in the industry.
- 1968 San Onofre SCE and SG E collaboration
- ₱ 1978 PURPA stimulate domestic energy production seeded a nascent wholesale electricity market by encouraging companies other than utilities to build wind solar or gas plants. Law required utilities to buy them roughly what it would have cost them to produce it.

- o 1978 Three mile island
- 1985 Diablo Canyon finished PG EE
- 1991 California rates were 50 percent above the national avg. that gave way to deregulation
- 1992 Energy Policy Act made it easier for companies other than utilities to build and operate power plants
- o 1990s Deregulation
- @ 1996 CA Deregulation bill passed
- @ 1997 Enron buys PGE in Oregon
- 1998 March power exchange began processing trades
- @ 2000 power becomes much pricier
- © 2000 June heat wave PGEE cuts power to customers rolling blackouts
- 2000 fall utilities running out of money to purchase power

- @ 2000-2001 power crisis
- 2001 Jan Enron traders/blackouts/SCE and PG&E default on power purchases/Davis declares state of emergency CA Dept of Water Resources purchases power on behalf of utilities
- @ Gray Davis 1999-2003
- Schwarzenegger 2003-2011
- @ 2017 Santa Rosa fire
- 2018 Sierra Nevada deadliest wildfire in CA history Paradise 84 ppl burned to death
- @ 2019-2020 Bill Johnson
- 0 2021 Patti Poppe
- @ 2021 February Texas uri
- @ 2021 June heat dome
- @ 2021 Dixie Fire bury the lines