# Natural Gas: From Russia to the Rockies, Putin to Polis

Presented to:
The Lincoln Club of Colorado
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# Politics & Markets for Natural Gas: From Russia to the Rocky Mountains

Presentation to:
Twelfth Annual Wyoming Natural Gas Fair
Jackson Hole, Wyoming

September 18, 2008 By: John A. Harpole



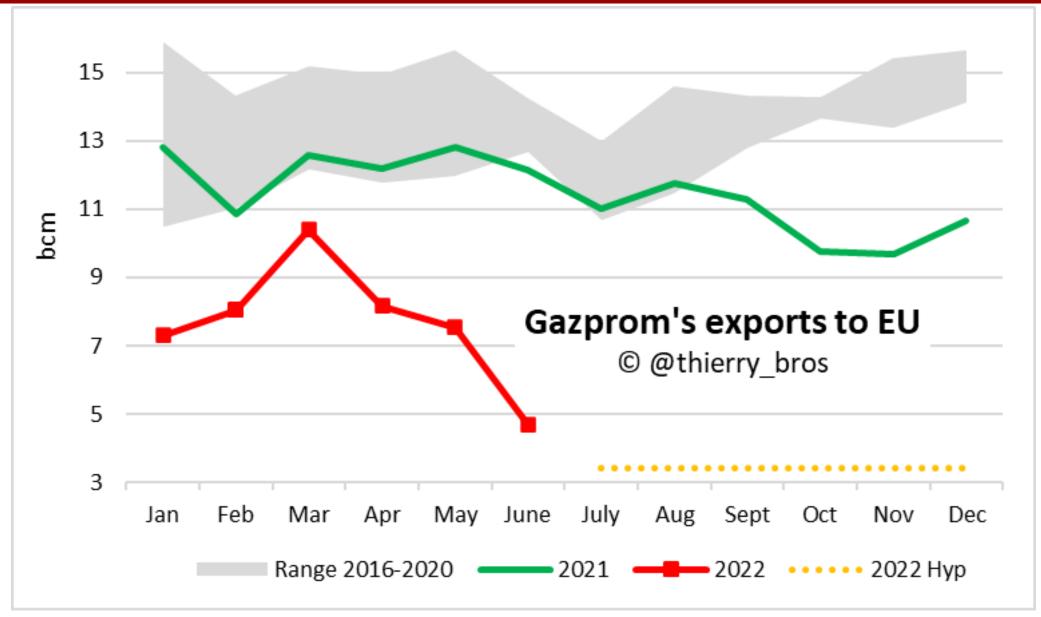


- Over reliance on renewables
- Retired coal and nuclear plants too early
- Under reliance on fossil fuels

Is Colorado on the same path as the EU?

# Russia, A Reliable Supplier?





Source: Thierry Bros

# **Comparative Forward Strips\***



#### One-Year Forward Strip

NYMEX Henry Hub	\$ 7.450
LNG Delivered Price to Asia	\$44.456
LNG Delivered Price to Europe	\$54.895

#### Three-Year Forward Strip

NYMEX Henry Hub	\$ 5.701
LNG Delivered Price to Asia	\$30.770
LNG Delivered Price to Europe	\$37.339

<sup>\*</sup> Settled price as of July 26, 2022

### **6 Common Characteristics**



- Step 1: Appropriate, consolidate, seize power
- Step 2: Crush your challenger, your rival, your adversary
- Step 3: Control the Public Narrative
- Step 4: Reign through terror, intimidation and uncertainty
- Step 5: Create a new society
- Step 6: Rule forever



# Appropriate

# Consolidate

Seize Power



# History of Kovykta Gas Field (70 TCF of Natural Gas Reserves)

- 1987 Kovykta Gas Field discovered (enough natural gas to power Asia for 10 years)
- 1987 License to develop held by Russia Petroleum (Majority of RP owned by TNK-BP)
- 2003 2005 TNK-BP denied access to critical Gazprom pipeline
- June 2006 Top TNK-BP Engineer Enver Ziganshin murdered three days after meeting with Russia's EPA equivalent, Rospirodnadzor on compliance issues
- June 2007 TNK-BP offered to sell stake for \$700-\$900 million to Gazprom, but deal never materialized
- June 2010 Russia Petroleum filed for bankruptcy



# History of Kovykta

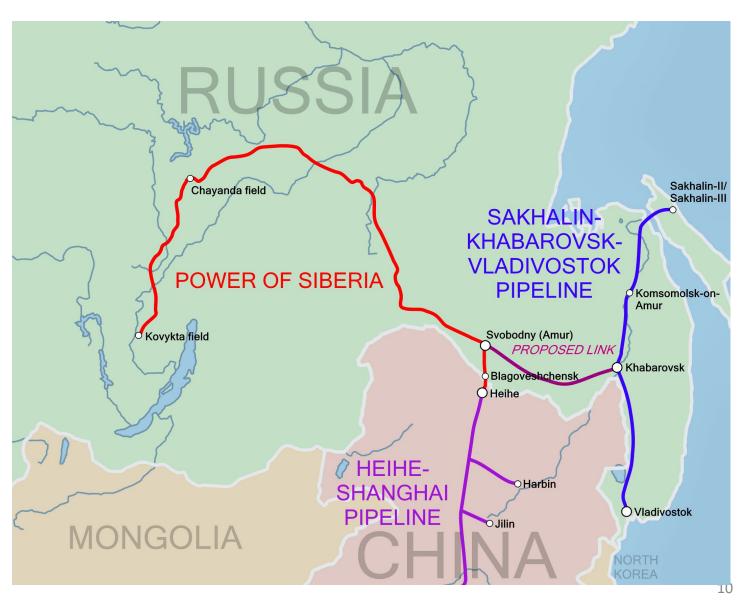
- TNK-BP attempted to sell field to state owned Rosneft but failed
- March 2011 Gazprom bought Russia Petroleum's assets, including Kovykta, for \$711 million
- May 2014 Russia and China sign \$400 billion 30-year gas supply agreement, Kovykta natural gas will be delivered to China via the Power of Siberia Gas Pipeline



Gazprom kicks off extension of huge gas export pipeline to China

- Upstream Energy November 2020

# Power of Siberia Gas Pipeline Map



Source: wikipedia



#### Russia and LNG

 When the Sakhalin II project is fully on stream, it will supply around 5% of the world's LNG and make a significant contribution to strengthening global energy security." (February 18, 2009)

Sakhalin, formerly owned by Shell Exploration, was "nationalized" by Gazprom. Gazprom currently owns 51% of the project.

**April 4, 2009** 



#### Russia and LNG

# Russia seizes control of Sakhalin gas project, raises stakes with West

Reuters, July 1, 2022

"... a move that could force out Shell and Japanese investors [Mitsui and Mitsubishi]."





# "Polis may prove Colorado is for sale after all." \*

- 130 X Polis spent \$1.3 million on a State
  Board of Education race his opponent spent
  \$10,000 (margin of victory 90 votes out of 1.3
  million total votes cast).
- 3 X Polis spent \$5.3 million in his primary race vs. Joan Fitz-Gerald (spent \$1.8 million)



# "Polis may prove Colorado is for sale after all."\*

- \$12 million amount Polis spent on Democratic primary race for governor.
- 17 X amount Polis spent in governor race against Walker Stapleton (\$23.4 million)
- 97.9% the percentage amount Polis contributed to his first governor's race out of his own pocket (\$23.4 million in total)



June 4, 2019

# Colorado withdraws support for natural gas exports for international markets

-Denver Business Journal

 7-year effort to link Colorado's Piceance Basin\* to Asian gas buyers to create international markets for Colorado natural gas is discontinued by Polis Administration

"We are no longer actively involved in this energy project," said Will Toor, executive director of the Colorado Energy Office



Polis "would prefer Colorado move away from commoditypriced fuels in favor of more stable renewable energy..."

Polis established a goal of having Colorado's economy free of fossil fuels and rely 100% on renewable energy by 2040.



"From our perspective, the move that needs to be made is toward renewable energy generation," he said, in an interview with the Denver Business Journal. "The cuts that are needed are far deeper than moving from one fossil fuel to another. You need near-zero emissions to get there."



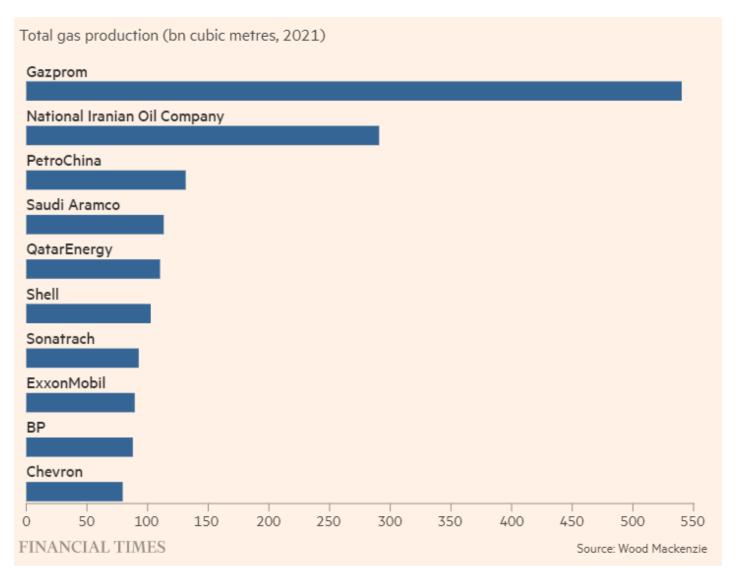
# Crush: Your Challenger

**Your Rival** 

Your Adversary



#### The 10 largest gas companies





Why trust Russia? History should have been the lesson.

Slide from my 2009 PowerPoint presentation

# Russia's Energy Muscle

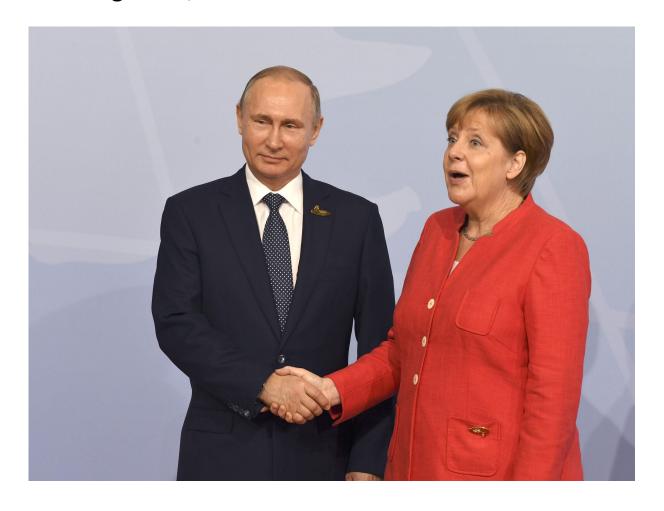
 Energy Used Over 55 times Against Former Soviet Nations Since 1990



Source: Europe Doubles Down on Russian Gas to Feed its Energy Appetite, by Andrew Haney, Ricardo Bracho, Nick Wolfe and Max Faith



#### Merkel's Major Mistake - Trusting Putin, but she was not alone



Angela Merkel, Chancellor of Germany from 2005 to 2021





The Former Chancellor Who Became Putin's Man in Germany – NY Times, April 23, 2022



#### **Gerhard Schröder Bio**

Title	Term	Income
Chancellor of Germany	1998 – 2005	\$9,000/mo. stipend
Nord Stream I Chairman	2005 – 2022	\$270,000/year
Nord Stream II Board Member	2011 - 2022	?
Rosneft Board President	2017 – 2022	\$600,000/year
Gazprom Board Member	2022 - 2022	?



Gerhard Schroder served on the boards of two Russian companies, Rosneft and Gazprom, that represented 25%-40% of Russia's budget





# Step 2: Crush Your Challenger, Your Rival, Your Adversary mercator Energy

# How Important is Russian Natural Gas to Western Europe?

### The SWIFT Bank Exceptions

Only two banks were exempted from SWIFT bank sanctions:





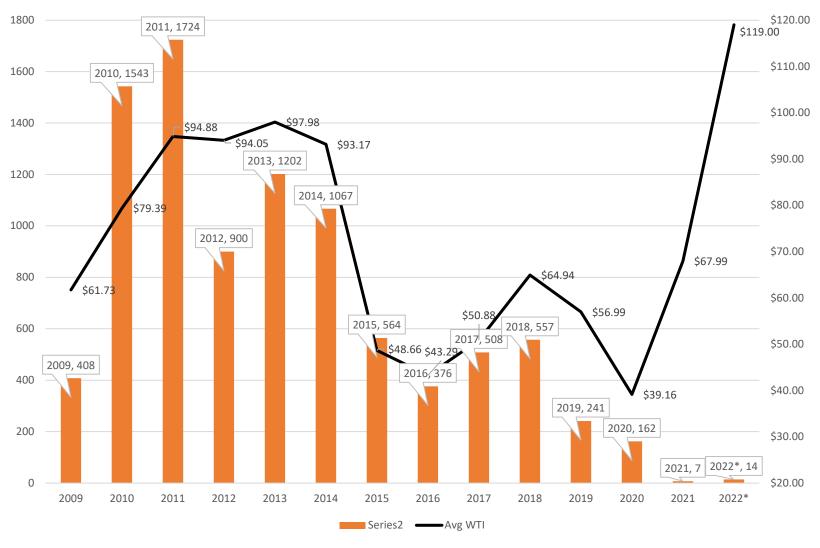


As European Leaders Visit Kyiv, Putin Cuts Their Gas Supply\*





### **Colorado Approved Location Permits by Year**



Source: COGCC



28

- Adopted and began to implement a zero CO2 emissions by 2040 policy
- In 2014, as a Colorado Congressman, Polis paid for and sponsored two anti-Oil and Gas ballot initiatives (Coloradans for Safe and Clean Energy).
- Appointed Boulder Attorney Jeff Robbins (an anti-oil and gas activist) to be Chairman of the Colorado Oil and Gas Conservation Commission.
- Refused to send "Exception Letter" to EPA on ozone nonattainment standard, triggering significant regulatory and mandated control over Oil and Gas Industry.

Source: COGCC



 Senate Bill 181 sponsored and signed into law by Governor Polis (Does it effectively ratchet Colorado's Oil and gas industry into non-existence?)

### SB181 Impact:

- -Oil and Gas Industry estimates its economic impact at \$30 billion.
- -33,024 direct employee job losses in 2019
- -Added \$200 million dollars/year in new regulatory direct costs.
- Oil and Gas production is down 20% in Colorado since Polis took office



# Control the Public Narrative



### U.S. Shale Revolution?



US LNG exports are a priority concern for Putin. US LNG bound for Europe undercuts Russia's domination of the European Gas Market.



Putin spends \$95 million on fracking disinformation campaign

Former NATO Secretary General Anders Fogh Rasmussen backs up the Romanian claim. He said in London recently,

"Russia, as part of their sophisticated information and disinformation operations, engaged actively with so-called nongovernmental organizations — environmental organizations working against shale gas — to maintain [Europe's] dependence on imported Russian gas."

- Former NATO Secretary General Anders Fogh Rasmussen



 Russia Today television ran endless anti-fracking stories, including one that said,

# "Frackers are the moral equivalent of pedophiles."





#### **EU Fracking Bans/Moratoriums Still in Place**

- 1. France
- 2. Bulgaria
- 3. Netherlands
- 4. Germany
- 5. Ireland
- 6. United Kingdom
- 7. Spain

The total population of these countries exceeds 350 million



# Polis Spin

- After his 1<sup>st</sup> successful run for governor, he was asked if his race was, "An election or auction?"
- "The other side will always have more money than the democrats, that's just a reality"- Jared Polis
- 98% of his gubernatorial campaign dollars raised (\$23.4 million) came from his own checkbook.

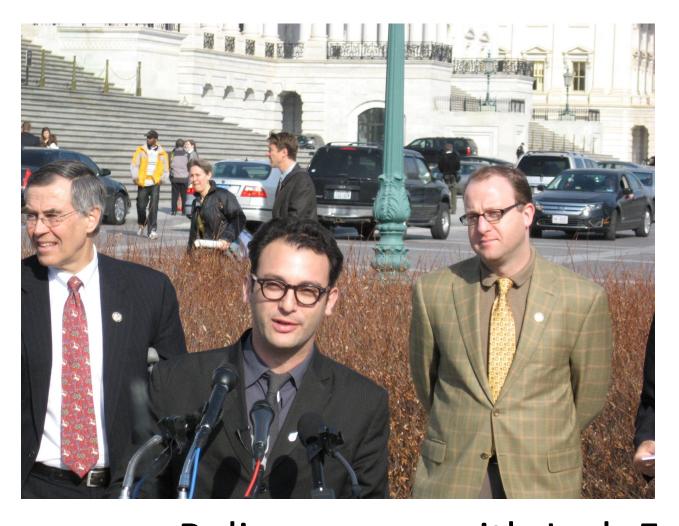


# According to the Denver Post:

 "The Democratic congressman does not want to ban all drilling with hydraulic fracturing, he insisted- and even compared those who do to fringe groups seeking to outlaw fluoride in water."

### **Step 3: Control the Public Narrative**





Congressman Polis appears with Josh Fox the Producer of the Ban-Fracking movie "Gasland"

### **Step 3: Control the Public Narrative**



### Polis Spin Circa 2014

• In a July 16th, 2014 statement, Rep. Polis said these initiatives will not harm the oil and gas industry, and even claimed they "will allow our state to continue to benefit from the oil and gas boom that brings jobs and increased energy security." In June, Rep. Polis said: "I think that like myself most Coloradans support fracking and the all-of-the above approach."



## Reign through:

Terror

Intimidation

Uncertainty



### Question posed in 2009 PowerPoint presentation

### **Energy Security?**

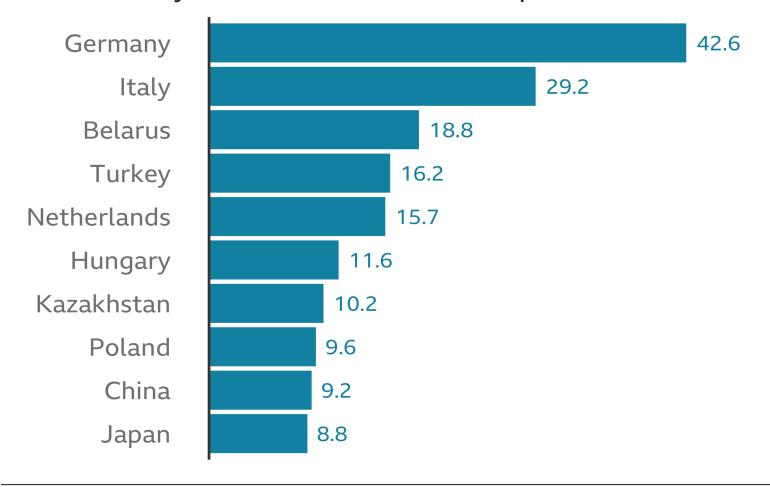
- By the year 2020, Gazprom will supply nearly 70% of the European Union's natural gas.
- Would you pursue a conflict with a country that you depend on for the majority of your energy needs?



### Step 4: Reign Through Terror, Intimidation, and Uncertainty Mercator Energy

### Russia's gas exports

Countries by billion of cubic metres imported from Russia

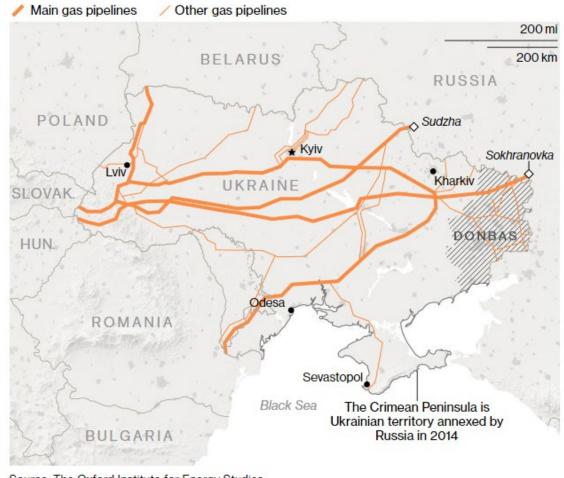


Source: IEA, Data for 2020





### **Natural Gas Runs Through Ukraine**



Source: The Oxford Institute for Energy Studies
Note: Only the portion of pipelines that run through Ukraine are displayed on the map



Why is Nord Stream I so important?

### Linking the Super Powers





### Warning from Putin in Spring 2014

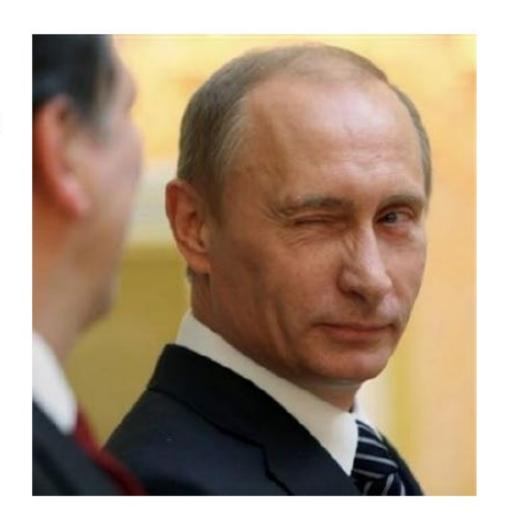
\$35.4 Billion Demanded in Letter to EU

#### Bloomberg

Putin Calls on Europe to Aid Ukraine or Face Gas Supply Risk



Putin warns Europe about Ukraine gas debt





### **Germany's Angst**

Germany's pursuit of peace in trade with Russia failed

"Roughly half of Germany's homes rely on natural gas for their heating, and 55 percent of the country's gas comes from Russia."

A near-term cut-off of Russian gas supplies to Germany could cost their economy \$120 billion. Germany would be rationing natural gas.

• June 23, 2022, Germany Triggers Gas Alarm Stage, Accuses Russia of 'Economic Attack'

"We must not fool ourselves: The cut in gas supplies is an economic attack on us by (Russian President Vladimir) Putin", "Germany's Economy Minister Robert Habeck."\*

• June 16, 2022, Russia Slashes Gas Flows, Aiming Economic Weapon at Europe

- World Europe



 As Russia Cuts Gas, German Industry Grapples with Painful Choices

• FRANKFURT, June 23 (Reuters) - The German companies that drive Europe's biggest economy are contemplating painful cuts to their output and resorting to polluting forms of energy previously considered unthinkable as they adjust to the prospect of running out of Russian gas.





### Putin to Keep Gas Flowing, But Warns EU

Russian leader says sanctions threaten to reduce output; Europe prepares for rationing

> July 21, 2022 Wall Street Journal





### Kremlin Opens Second Battlefront

While Vladimir Putin wages a conventional war in Ukraine, he has opened a second front in Europe that is coming to a head; A battle over natural gas.

July 21, 2022 Wall Street Journal



## Natural Gas Soars 700%, Becoming Driving Force in the New Cold War

- Bloomberg.com, July 4, 2022

# Entire industries in Germany could collapse due to Russian natural-gas supply cuts: union head

- Business Insider, July 3, 2022

## E.U. urges gas rationing ahead of 'likely' cutoff by Russia



# Europe's Worst Energy Nightmare Is Becoming Reality

Russian outages and record-high prices threaten a "winter of discontent."

- Foreign Policy, July 11, 2022

## IEA Chief: Europe Has to Cut Gas Use or Face Brutal Winter

- Foreign Policy, July 21, 2022



#### **Germany's About Face Gives Hope**

"We must change course to overcome our dependence on imports from individual energy suppliers."

- Chancellor Olaf Scholz

This will include building two liquefied natural gas (LNG) terminals, one in Brunsbuettel and one in Wilhelmshaven, and raising its natural gas reserves.



### Create a New Society

### **Step 5: Create a New Society**





"Let's not kid anybody," said Leon Panetta, "Putin's main interest is to try and restore the Old Soviet Union. I mean that's what drives him."

### **Step 5: Create a New Society**



 Legislation calls for a 26 percent reduction in emissions by 2025 and a 50 percent reduction by 2030. Those targets are measured against Colorado's 2005 emissions.



"This is by far the most ambitious and expansive planning document that Colorado has ever produced on climate change," Polis said.

### **Step 5: Create a New Society**



## COLORADO AIMS TO "ELECTRIFY THE HECK" OUT OF EVERYTHING, GAS STOVETOPS POTENTIALLY TARGETED

"A swift transition from natural gas-fired power sources to electrification has become a top priority for Colorado Gov. Jared Polis as leading officials in his administration aim to stop fossil fuel use by consumers. Such a move raises the specter of higher costs for consumers and other impacts, especially if they lose access to popular home appliances like gas stovetops."\*



### Rule Forever

### **Step 6: Rule Forever**



Vladimir Putin passes law that may keep him in office until 2036

"The Russian president signed the legislation on Monday, ending a year-long process to "reset" his presidential terms by rewriting the constitution through a referendum-like process that his critics have called a crude power grab."



### **Jared Polis**

### <u>Term</u>

2001-2007- State Board of education

2009-2011- Colorado U.S. House 2<sup>nd</sup> District

2011-2013- Colorado U.S. House 2<sup>nd</sup> District

2013-2015- Colorado U.S. House 2<sup>nd</sup> District

2015-2017- Colorado U.S. House 2<sup>nd</sup> District

2017-2019- Colorado U.S. House 2<sup>nd</sup> District

2019-present- Governor of Colorado

### **Step 6: Rule Forever**



### Polis Steps Into National Spotlight\*

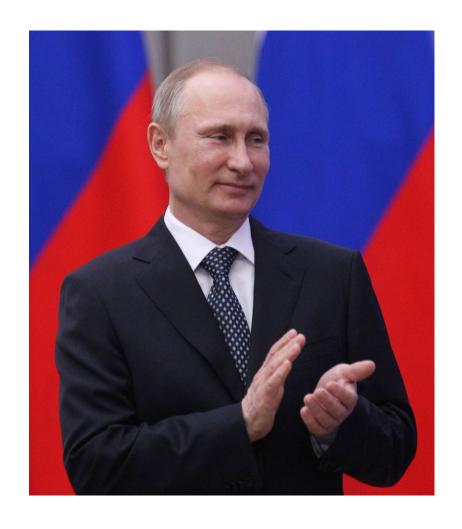


If Polis wins another term as Colorado Governor and two terms as U.S. President he will be in office until 2034, meaning he would be in public office for a total of 33 years.\*

Source: John Frank, Axios\*

### **Economic Terrorism?**







### The 6 Characteristics



What Type of People Share Those 6 Characteristics?

- A tyrant
- An Autocrat
- An Ideologue



- Colorado, under Jared Polis' Leadership is creating a new CO2-free society following the same path that Putin encouraged Germany and the EU to follow.
- Can't we learn from mistakes made by the EU and more specifically Germany?



The far green left still doesn't understand scale.

Daniel Yergin: "... this is a \$90 trillion world economy that gets 80% of its energy from hydrocarbons. It's not going to change overnight."

### "Carbon Free by 2030"?

### **Three Final Thoughts**



### 1. Why is Putin courting Iran?

#### Which countries have the biggest natural gas reserves?

- 1.Russia 38 trillion cubic metres. ...
- 2.Iran 32 trillion cubic metres. ...
- 3.Qatar 24.7 trillion cubic metres. ...
- 4. Turkmenistan 19.5 trillion cubic metres. ...
- 5.United States 12.9 trillion cubic metres.



### Russia, Iran sign \$40-billion oil, gas MOU

Gazprom would make \$40 billion dollars of direct investments in Iran's oil and gas industry



### 2. A Tidal Shift?

### EU Votes to Label Natural Gas as Climate Friendly





# 3. For the First Time, US Is Sending More Gas to Europe Than Russia

US LNG volumes were higher than Russian piped gas last month (June 2022)



67



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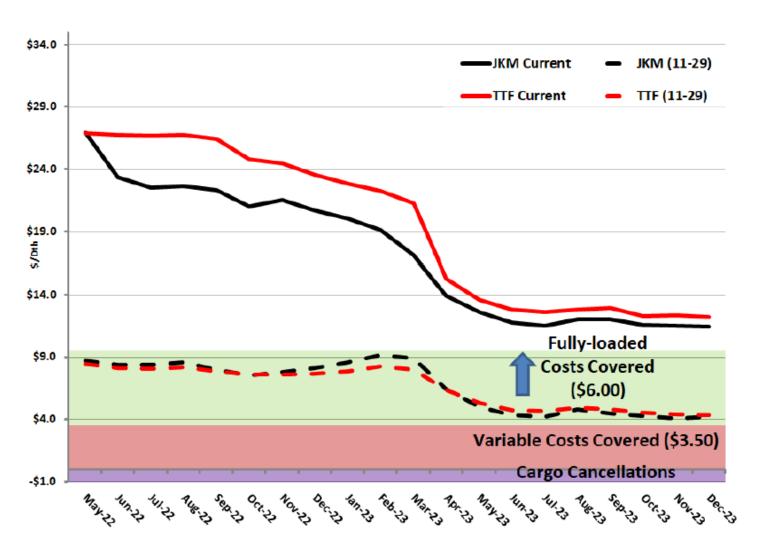
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#### **LNG Export Trends**

Near Term Outlook Margins

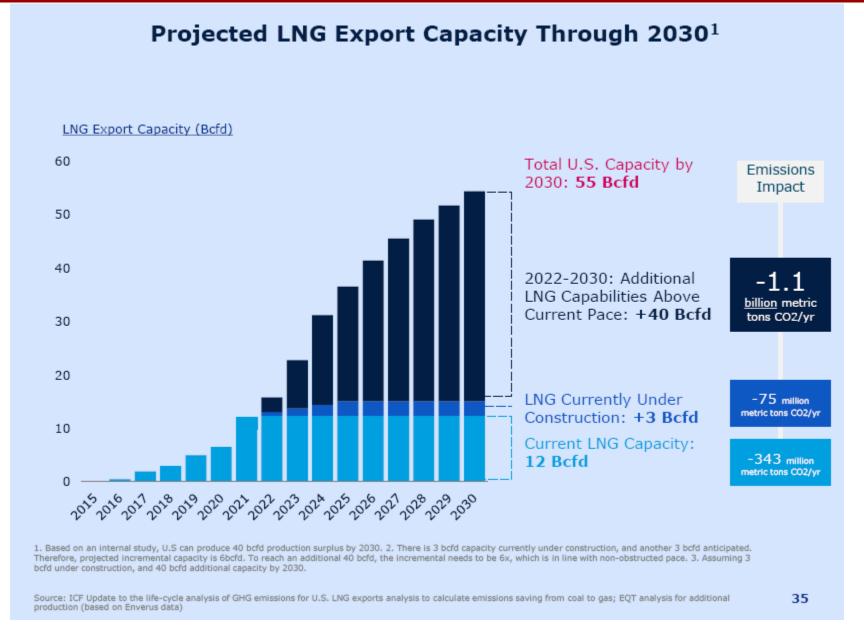


KINDER

Margins through '23 well above fully loaded costs. Supply demand balance remains tight due to greater demand in Asia and Europe. Competition for cargos between Asia and Europe and Russia/Ukraine conflict sustaining elevated prices in both markets.

Nord Stream 2 will not enter service for the foreseeable future with current situation in Europe





### **European LNG infrastructure**





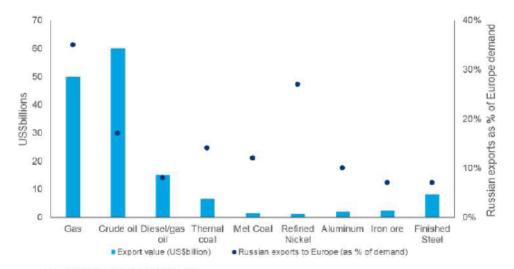


KINDER MORGAN

#### LNG Export Trends

#### Russian gas supply to Europe and China

European exposure to Russian commodity imports and its monetary value (2021)



#### RUSSIAN GAS LINKS TO CHINA



Source: S&P Global Platts, Gazprom

- Russian gas and oil have a significant share of the EU Mkt.
- Russian gas supplies ~38% of European demand
- Russia supplies ~50% of Germany's demand and ~30% of Italy's demand
- May be limits to increase pipe supply from non-Russian sources
- Russian piped gas flows to Europe on the following routes;
- Nord Stream 1 flowing at capacity 5 Bcfd
- Nord Stream 2 (uncertain outcome), capacity of 5 Bcfd
- Yamal (via Poland) capacity of 3.2, not flowing at capacity
- 3 pipes thru Ukraine, capacity 8.1 Bcfd, limited flow currently due to higher cost of transport. Russia has a 3.8 Bcfd flow or pay kt. with Ukraine thru '24
- TurkStream and Blue Stream (via Turkey to Italy /southern EU), capacity of ~3 Bcfd
- Russia currently supplies China and is looking to expand
- Russia supplies China via the Power of Siberia PL; 3.9 Bcfd, supplying ~7% of its gas demand
- In discussions to develop Power of Siberia 2, 5.1 Bcfd
- Entered into new long-term gas agreement with China's CNPC for 1 Bcfd