



Uranium  
Rare Earth Elements  
Vanadium  
Recycling



Energy Fuels' White Mesa Mill (Utah, USA)

America's Leading Producer of Critical Minerals

Energy Fuels Inc.

UUUU NYSE American

EFR TSX

March 2021

# IMPORTANT INFORMATION

- Please carefully review important information about this presentation
  - Forward looking statements, page 23
  - Notice regarding technical disclosure, page 24
  - Cautionary statements for US investors concerning mineral resources, page 25

# ENERGY FUELS OUR BUSINESS CASE

- 1 URANIUM (CORE BUSINESS)**  
 We are the largest U.S. producer of uranium, the fuel for carbon- & emission-free nuclear energy
- 2 RARE EARTH ELEMENTS (REE)**  
 3/1/2021: Announced planned launch of new, fully-integrated REE supply chain ready to supply U.S. & Europe in 2021
- 3 VANADIUM**  
 We were the largest U.S. producer of vanadium in 2019; Used in steel, high-strength alloys & grid-scale batteries
- 4 RECYCLING**  
 We preserve global resources & help address climate change through industry-leading recycling programs
- 5 FINANCIAL STRENGTH + ZERO DEBT**  
 Cash, securities & inventory of \$80.4M<sup>1</sup>, incl 690,700 lbs. U.S.-produced U<sub>3</sub>O<sub>8</sub> & 1,672,000 lbs. V<sub>2</sub>O<sub>5</sub>

92

**U**

Uranium  
238.03

23

**V**

Vanadium  
50.94

21 <b>Sc</b> Scandium	39 <b>Y</b> Yttrium	57 <b>La</b> Lanthanum	58 <b>Ce</b> Cerium	59 <b>Pr</b> Praseodymium	60 <b>Nd</b> Neodymium	61 <b>Pm</b> Promethium	62 <b>Sm</b> Samarium	63 <b>Eu</b> Europium	64 <b>Gd</b> Gadolinium	65 <b>Tb</b> Terbium	66 <b>Dy</b> Dysprosium	67 <b>Ho</b> Holmium	68 <b>Er</b> Erbium	69 <b>Tm</b> Thulium	70 <b>Yb</b> Ytterbium	71 <b>Lu</b> Lutetium
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<sup>1</sup> \$50.0 million of cash, securities & inventory at 12/31/2020, plus \$30.4 million raised on ATM during Q1-2020

***"Energy Fuels is proud to produce the raw materials that make numerous clean energy & advanced technologies possible – and we do it all at the highest global standards for environmental protection." Mark S. Chalmers, President & CEO.***

Uranium

The fuel for clean, emission nuclear energy – provides 55% of all carbon-free electricity in U.S.

Rare Earths

Building blocks of clean energy & advanced technologies, including electric vehicles (EVs) & wind power

Vanadium

Steel, advanced alloys & emerging grid-scale batteries able to store renewable energy

Recycling

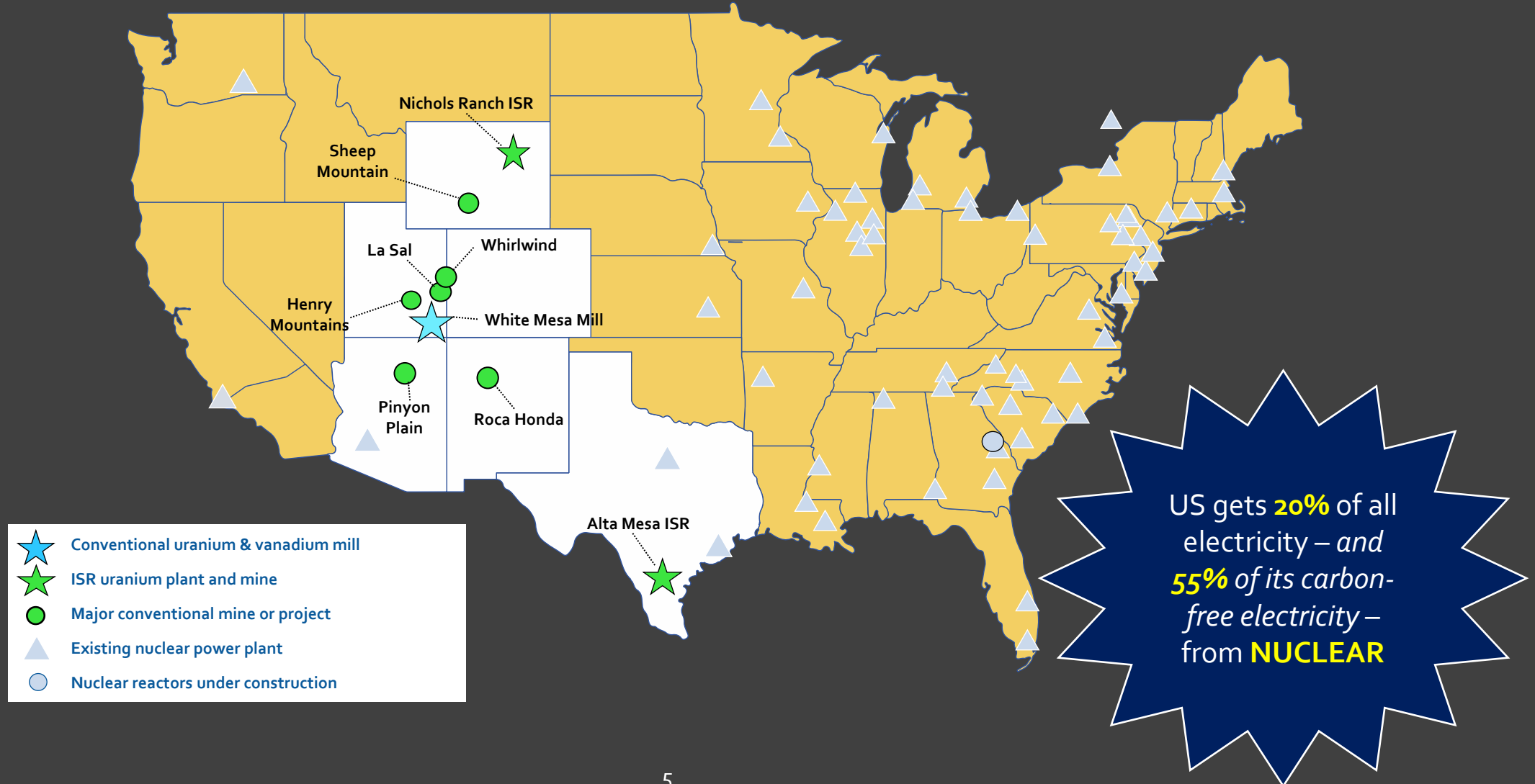
To reduce need for mining, save the Earth's finite resources & reduce carbon emissions

**December 2020 Sustainability Report highlights:**

- Our commitment to health, safety & environmental responsibility;
- How Energy Fuels helps address climate change & air pollution;
- How we benefit the communities in which we operate;
- Our industry's modern, comprehensive regulatory framework, ensuring protection of public health, worker safety & the environment to the highest global standards;
- The Company's pledge to helping address the Cold War legacy of uranium mining; and
- The Company's commitment to human rights, corporate governance & social responsibility.

# ENERGY FUELS IS #1 IN U.S. URANIUM

THE LARGEST U.S. PRODUCER SINCE 2017





# PROVEN URANIUM PRODUCTION

## LEADING U.S. PRODUCTION PORTFOLIO



WHITE MESA MILL (UTAH) – **PRODUCING**

- Only conventional uranium & vanadium mill in US (plus REEs)
- 39M lbs. of  $U_3O_8$  + 54M lbs. of  $V_2O_5$  produced since 1980



NICHOLS RANCH ISR (WYOMING) – **STANDBY**

- 1.2 million lbs. of  $U_3O_8$  produced (2014 – 2019)
- 34 licensed wellfields provide long-term production profile



ALTA MESA ISR (TEXAS) – **STANDBY**

- 4.6 million lbs. of  $U_3O_8$  produced (2005 – 2012)
- Significant resources + exploration potential on 200,000 acres



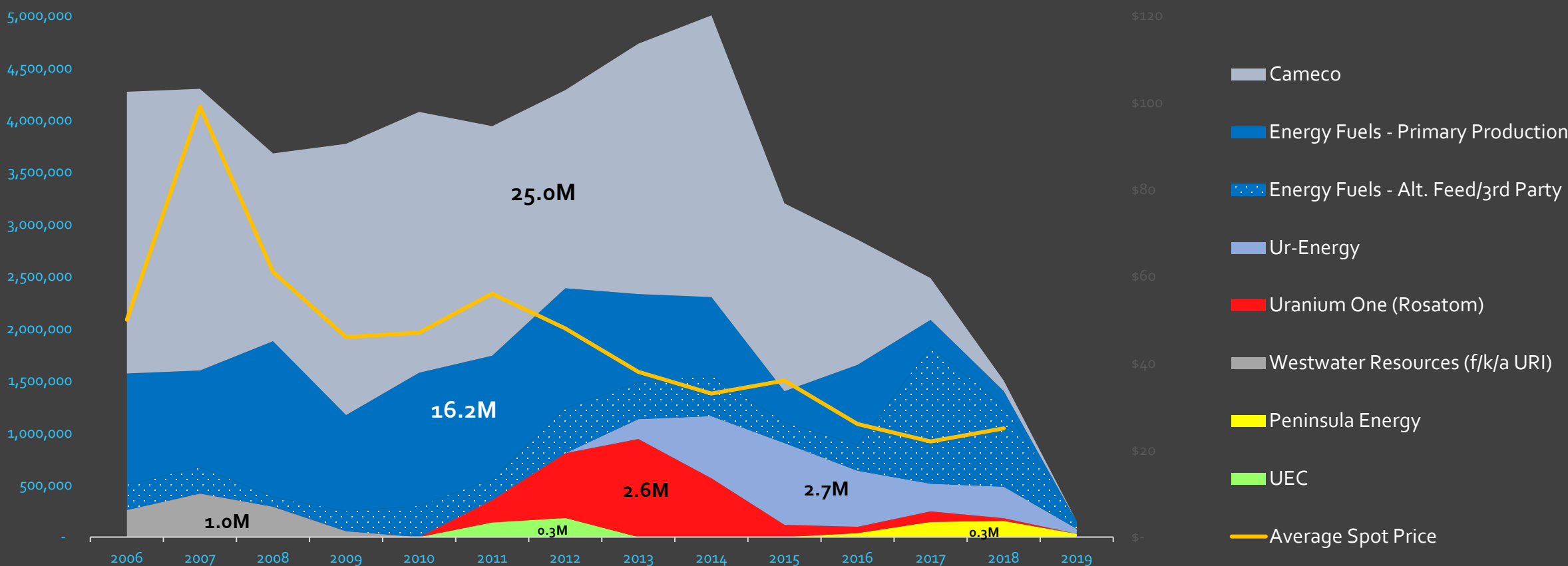
PINYON PLAIN MINE (ARIZONA) – **STANDBY**

- Licensed & substantially developed uranium mine
- High-grade (2.4 million lbs. at 0.9%  $U_3O_8$ )

**Plus 690,700 lbs. of existing, U.S.-produced uranium inventory ready to sell into improving markets**

# AMERICA'S PROVEN URANIUM PRODUCERS

SINCE 2006, 85% OF ALL U.S. URANIUM PRODUCED BY ASSETS OWNED BY CAMECO & ENERGY FUELS



Companies with proven facilities are best positioned to respond to improved markets

<sup>1</sup> Actual production from U.S. projects as reported by each company, including production from assets prior to acquisition; uranium prices per TradeTech.



# U.S. GOVERNMENT SUPPORT FOR URANIUM MINERS

## CURRENT STATUS

- U.S. Uranium Reserve - \$75 million
  - Bipartisan FY-2021 Spending Bill – passed by Congress & signed by President – includes \$75 million to create strategic U.S. Uranium Reserve
  - Expected to be managed by the U.S. Department of Energy (“DOE”)
  - Potential for significant support for proven uranium producers with proven assets
- October 5, 2020: RSA extended until 2040
  - Reduces imports of uranium from Russia
  - Caps imports of enriched uranium product (“EUP”) & includes strict return feed restrictions designed to avoid circumvention
  - Avoids threat of unlimited Russian uranium entering the U.S.

**Biden Administration supports nuclear energy & critical minerals**



# MARKET POSITION – URANIUM

NORTH AMERICAN SPACE AS OF March 19, 2021<sup>1</sup>

COMPANY	MARKET CAP (US\$MM)	CASH, SECURITIES, INVENTORY (US\$MM)	TOTAL DEBT (US\$MM)	URANIUM INVENTORY (MM LBS.) <sup>2</sup>	CURRENT URANIUM PRODUCTION	VANADIUM	RECYCLING	RARE EARTHS
Cameco	\$7,061	\$1,297	(\$786)	15.3	✓	✗	✗	✗
NexGen Energy	\$1,768	\$201 <sup>2,6</sup>	\$0 <sup>5</sup>	✗	✗	✗	✗	✗
Energy Fuels	\$918	\$80.4 <sup>6</sup>	\$0	0.69	✓	✓	✓	✓
Denison Mines	\$829	\$144 <sup>2,6</sup>	\$0	✗	✗ <sup>4</sup>	✗	✗	✗
Uranium Energy Corp	\$595	\$96 <sup>6</sup>	(\$10)	✗ <sup>7</sup>	✗	✗	✗	✗
Fission Uranium	\$273	\$21 <sup>2,6</sup>	(\$9)	✗	✗	✗	✗	✗
Ur-Energy	\$247	\$19 <sup>6</sup>	(\$13)	0.29	✗	✗	✗	✗
Peninsula Energy	\$89 <sup>3</sup>	\$14	\$0	0.02	✓	✗	✗	✗

<sup>1</sup> This chart reflects the most recent publicly available information; Energy Fuels' information is disclosed in its Form 10-K for the year ended December 31, 2020

<sup>2</sup> Cdn\$ = US\$0.80

<sup>3</sup> Au\$ = US\$0.77

<sup>4</sup> Does not include minority share of inventory/production of operating McClean Lake Mill

<sup>5</sup> Includes recent conversion of debt to shares

<sup>6</sup> Includes recent financing(s); conversion of debt to shares

<sup>7</sup> UEC has announced that it is under contract to purchase 1.2 million lbs. of uranium for an average price of \$28.94/lb. (\$34.7 million) for delivery in April & December 2021

# RARE EARTHS + URANIUM

## COMPLEMENTARY BUSINESS OPPORTUNITIES FOR ENERGY FUELS

- Energy Fuels beginning rare earth production in 2021 as complement to core uranium business
  - Some of the highest-value REE-bearing minerals also contain uranium
- What are REEs?
  - Series of 17 naturally-occurring elements
  - Building blocks of numerous clean energy & advanced technologies
  - Electric vehicles (EVs), wind energy, batteries, cell phones, computers, flat-screen displays, advanced optics, catalysts, permanent magnets, medical devices, lasers & defense applications
- U.S. is completely dependent on imports of REE products, mostly from China
- Significant growth projected in the coming years due to exploding demand for REE permanent magnets
  - Up to a 5-fold projected increase in demand for magnet REE oxides through 2030<sup>1</sup>

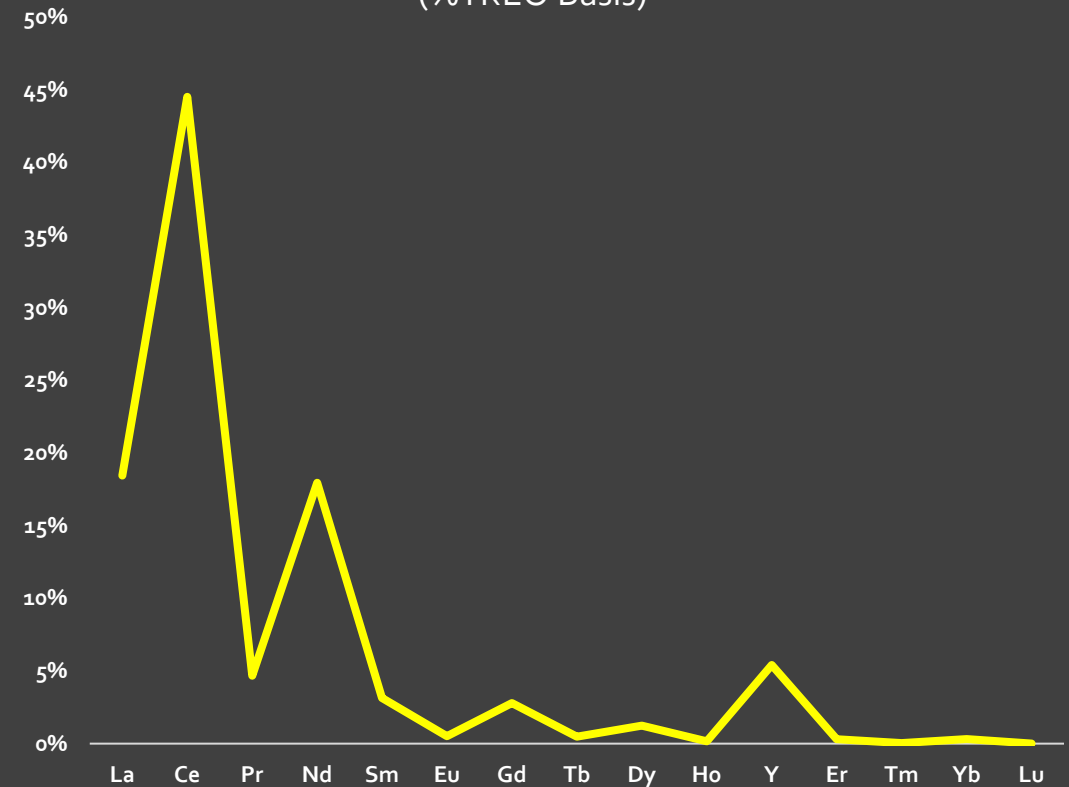
Energy Fuels' **White Mesa Mill** is an existing U.S. facility that can help bring rare earth production back to the U.S.

# U.S. RARE EARTH PRODUCTION BASED ON MONAZITE

## ONE OF THE MOST VALUABLE RARE EARTH MINERALS IN THE WORLD

- Typical monazite ore from the southeast U.S.
  - 53% - 55% TREO (Total Rare Earth Oxides)
  - ~0.20% uranium
- Excellent distribution of the valuable REEs (%TREO Basis):
  - ~22.6% NdPr (needed for permanent REE magnets)
  - ~14.4% SEG + "Heavies"
- Other monazite around the World is even higher-grade, higher-value:
  - 61.5% TREO in Australia
  - Also produced in Africa & elsewhere
- For comparison, typical U.S. "bastnaesite" (another REE ore) contains:
  - ~16.3% NdPr
  - ~1.1% SEG + "Heavies"<sup>1</sup>

Average REE Distribution  
(%TREO Basis)



<sup>1</sup> Source: "A Lanthanide Lanthology" by Barry Kilborn

# LAUNCHING U.S.-EU RARE EARTH SUPPLY CHAIN in 2021

## USING EXISTING FACILITIES IN U.S. & EUROPE

- Short-Term Business Plan (2021):

- Purchase high-grade monazite ore currently mined in the U.S. as byproduct of other metal mining from The Chemours Company (NYSE: CC)
- Seeking to purchase additional existing monazite supply
- Produce mixed REE carbonate at Energy Fuels' existing White Mesa Mill
- Sell mixed REE carbonate to existing separation facility owned by Neo Performance Materials (TSX: NEO) in Estonia

- Long-Term Business Plan (2023/4):

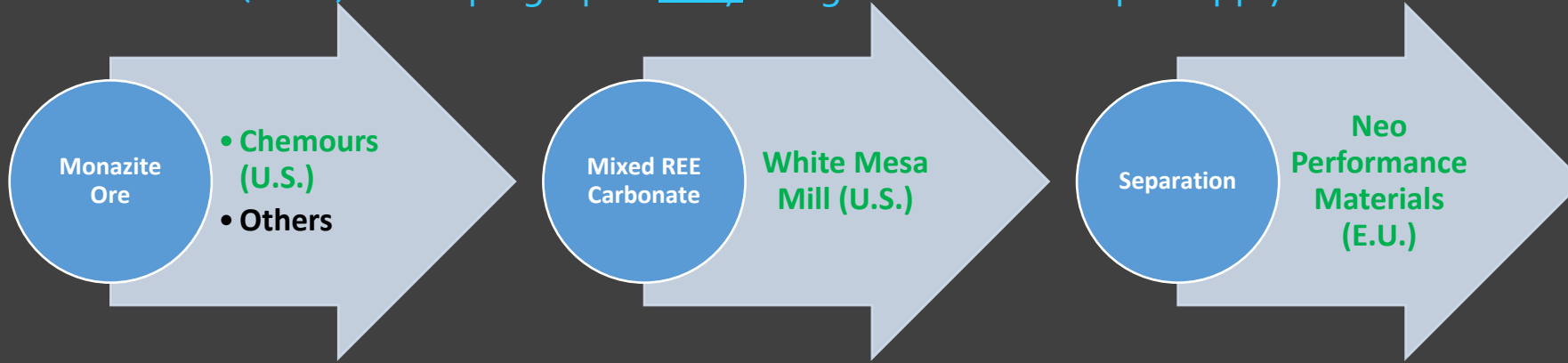
- Evaluate and plan to develop fully-integrated rare earth separation & value-added rare earth capabilities (metals, alloys, powders, etc.) at White Mesa Mill thereby allowing the Company to:
  - Capture full value of rare earth supply chain
  - Create fully-integrated, U.S. rare earth supply chain at the White Mesa Mill

**Potential to be lower-cost & quicker-to-market than other emerging rare earth initiatives, because we will use existing, licensed facilities & capabilities**

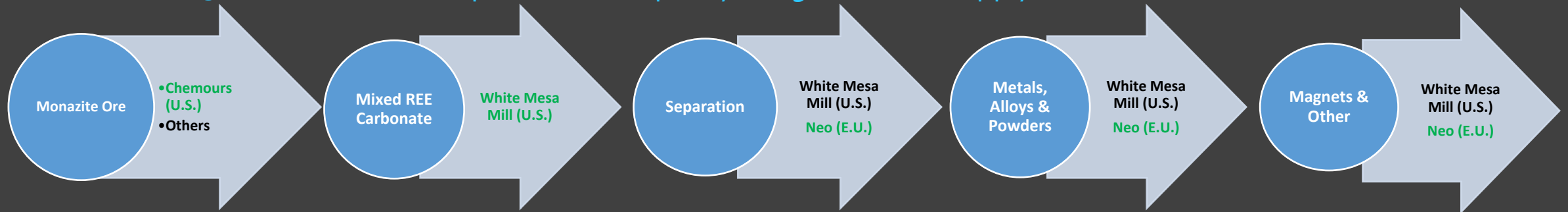
# A REBUILT RARE EARTH SUPPLY CHAINS

## LED BY ENERGY FUELS

Short-Term (2021) – Ramping Up to Fully Integrated U.S.-Europe Supply Chain



Mid-Term (2023/24) – Evaluate and plan to develop fully Integrated U.S. Supply Chain



**Southeast Utah has potential to become America's clean energy & critical mineral hub**

# UNIQUE CAPABILITIES OF WHITE MESA MILL

## ENERGY FUELS MAY BE THE “MISSING LINK” IN THE U.S. REE SUPPLY CHAIN

- White Mesa Mill is the only facility in U.S. licensed & capable of processing monazite for the recovery of REEs & uranium
  - Using existing Mill capabilities with very minor upgrades (<\$2 million)
- Ample processing capacity:
  - 15,000 tons of monazite would only require <2% of Mill's annual throughput capacity
  - <1% of existing, state-of-the-art, 1,000-year design tailings system
- A little bit of monazite goes a long way:
  - 2,500 tons of monazite contains ~8% of current U.S. REE demand
  - 15,000 tons of monazite contains ~50% of current U.S. REE demand
  - Very little waste generated, as over 50% of monazite ore is recovered in finished REE & uranium products





# COLLABORATION WITH CHEMOURS

## SUPPLIER OF MONAZITE

- December 14, 2020: Energy Fuels announces monazite supply agreement with The Chemours Company (NYSE: CC)
- Chemours is a U.S.-based supplier of natural monazite ore
  - Owner/operator of heavy mineral sand operations in the southeast U.S.
  - Initially providing Energy Fuels with 2,500 tons (min) of monazite per year for 3 years
  - Potential to increase quantities
- Energy Fuels expects to begin commercial production of a mixed REE carbonate, ready for separation, in 2021 from Chemours monazite
  - No other U.S. company will be commercially producing a REE product at such an advanced stage
- Low cost, byproduct production using existing facilities:
  - No lengthy permitting timelines, no development costs, no mining costs (except cost to acquire monazite), no mining risks + processing high-value monazite



# COLLABORATION WITH NEO

## FULL INTEGRATION OF A NEW U.S.-E.U. RARE EARTH SUPPLY CHAIN

- March 1, 2021: Energy Fuels announces agreement (in principle) to sell portion of mixed REE carbonate to Neo Performance Materials (TSX: NEO)
  - Subject to completion of definitive agreements
- Neo is a Canada-based supplier of separated rare earth oxides & other value-added rare earth products
  - Owner/operator of rare earth separation plant in Estonia (U.S. ally + member of NATO)
  - Neo subsidiary (Magnequench) produces magnetic powders, magnets and other rare earth products, mainly for European markets
  - Neo initially purchasing approximately 80% of Energy Fuels' carbonate production, containing 840 metric tonnes TREO
- Opportunity for Energy Fuels to ramp-up mixed REE carbonate production
  - Optimize & carefully advance from pilot-scale to full commercial production

# MARKET POSITION – RARE EARTHS

GLOBAL SPACE AS OF March 19, 2021

	COMPANY	MARKET CAP (US\$MM)	PRIMARY MINERAL	ORE CONCENTRATE "BASKET VALUE" (US\$)	ORE PRODUCTION		MIXED REE CONCENTRATE PRODUCTION		REE SEPARATION	
					CURRENT	PLANNED	CURRENT	PLANNED	CURRENT	PLANNED
Producers	MP Materials	\$7,852	Bastnaesite (US - CA)	\$6,900 <sup>3</sup>	✓		✗	✓	✗	✓
	Lynas	\$4,372	Monazite (Australia)	\$14,639 <sup>3</sup>	✓		✓		✓	
	Iluka Resources	\$2,200 <sup>5</sup>	Monazite (Australia)	\$16,025 <sup>3</sup>	✓		✗	✓	✗	✓
	Energy Fuels <sup>1</sup>	\$918	Monazite (US – UT/GA)	\$17,733 <sup>3</sup>	✗	<sup>1</sup>	✓		✗	✓
	Neo Performance Materials <sup>2</sup>	\$613 <sup>4</sup>	n/a	n/a <sup>2</sup>	✗	<sup>2</sup>	✗	<sup>2</sup>	✓	
Developers	Rare Element Resources	\$273	Bastnaesite (US - WY)	\$790 <sup>4</sup>	✗	✓	✗	✓	✗	✓
	Texas Mineral Resources (USA Rare Earths)	\$220	Bastnaesite (US - TX)	\$32 <sup>4</sup>	✗	✓	✗	✓	✗	✓
	Ucore Rare Metals	\$67	Bastnaesite (US - AK)	\$310 <sup>4</sup>	✗	✓	✗	✓	✗	✓

<sup>1</sup> Does not intend to be a miner but will purchase monazite; currently purchasing ore from Chemours (Georgia, USA) & processing in Utah, USA

<sup>2</sup> Neo purchases mixed REE concentrates (including from Energy Fuels); does not intend to be a miner or produce mixed REE concentrate

<sup>3</sup> Ore concentrate value, after beneficiation

<sup>4</sup> In-situ ore values, before beneficiation

<sup>4</sup> Cdn\$ = US\$0.80

<sup>5</sup> Au\$ = US\$0.77

# VANADIUM

## ENERGY FUELS PRODUCES VANADIUM IN RESPONSE TO MARKETS

- Vanadium used in steel, high-strength alloys, aerospace, chemicals & grid-scale battery technologies
- Critical mineral in U.S. and Canada
- The White Mesa Mill was the #1 U.S. producer of vanadium ( $V_2O_5$ ) in 2019
  - Produced 1.9 million pounds of high-purity (99.7%+)  $V_2O_5$  at the White Mesa Mill from tailings solutions
  - 1.7 million lbs. currently in inventory (valued at \$14 million at today's price of \$8.33 per lb.)
  - Additional ~1.5 – 3.0 million lbs. of recoverable inventory in tailings solutions
  - Plan to sell inventory & resume production when market conditions warrant
  - $V_2O_5$  prices in Europe are up 60% since December 2020<sup>1</sup>
- Vanadium Section 232 in U.S.
  - Significant potential catalyst for Energy Fuels
  - DOC had until February 27, 2021 to deliver report & recommendations to the President
  - President has 90 days after receipt of report to decide to impose trade remedies (tariffs, quotas, etc)

<sup>1</sup> Metal Bulletin Mid-Point Spot Price

# URANIUM RECYCLING

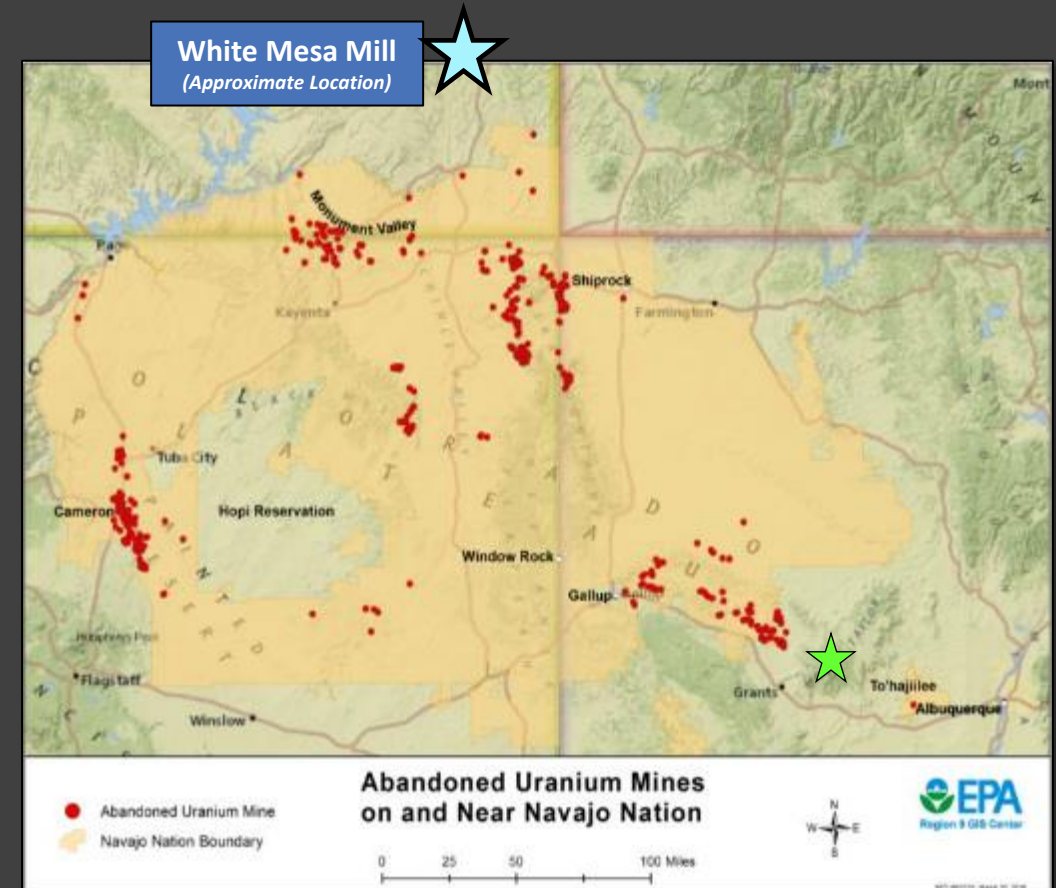
## SAVING THE WORLD'S RESOURCES & REDUCING CARBON EMISSIONS

- Energy Fuels recycles materials for the recovery of uranium & vanadium that would otherwise be lost to direct disposal
- Recycling reduces the need for mining & reduces carbon-emissions
- The White Mesa Mill's recycling programs have recovered 6 million lbs. of uranium
  - If converted to nuclear fuel, Energy Fuels' recycled uranium would:
    - Eliminate over 85 million tons of CO<sub>2</sub> emissions compared to coal
    - Avoid the annual emissions from 18 million passenger cars
    - Produce as much electricity as the coal in a train that extends from LA to NYC – and almost all the way back again
    - Produce as much electricity as 24,500 wind turbines annually
- The Mill has recycled enough vanadium for the steel needed to build 4.5 Golden Gate Bridges
- No other uranium mining company has similar recycling programs

# ADDRESSING THE COLD WAR LEGACY OF URANIUM

## SUPPORTING ENVIRONMENTAL JUSTICE

- 100's of government-sponsored uranium mines operated in Four Corners Region of the U.S. during the Cold War (1950's – 1960's)
  - These mines did not operate to today's modern standards
- U.S. government has access to \$1.7 billion to address some abandoned mines on Navajo Nation
- White Mesa Mill well positioned to participate
  - Fully permitted to handle clean-up material today
  - Only facility in U.S. that can recycle material into uranium
- Ongoing Projects by Energy Fuels
  - Participating in pilot-scale project on Navajo Nation (on hold due to COVID-19)
  - Supporting cleanup of private mine in New Mexico (green star on map)





# FINANCIAL STRENGTH + FLEXIBILITY

**\$80.4 M**

Cash, Securities & Inventory<sup>1,2</sup>

**690,700**

Lbs. uranium inventory<sup>1</sup>

**1,672,000**

Lbs. vanadium inventory<sup>1</sup>

At today's commodity prices, our inventory worth significantly more

	Value on Books (\$/Lb) <sup>5</sup>	Current Price (\$/Lb) <sup>5</sup>	% Up/ (Down)
U <sub>3</sub> O <sub>8</sub>	\$23.13	\$29.65	+28%
V <sub>2</sub> O <sub>5</sub>	\$5.37	\$8.33	+55%

## 2021 Guidance

- 30,000 – 60,000 lbs. of uranium production
- 720,000 – 750,000 lbs. of uranium inventory at year end
- 2,000 – 3,000 tons of mixed REE carbonate production containing 1,000 – 1,600 tons TREO

## Market Position

- Share Price (Mar. 19, 2021)<sup>3</sup> **\$6.53**
- 52-Week Range<sup>3</sup> **\$0.84 - \$7.83**
- Average Daily Volume<sup>4</sup> **6.37 million shares**
- Shares Outstanding<sup>5</sup> **140.6 million**
- Market Cap **\$918 million**
- **Zero Debt**

<sup>1</sup> As of the year ended December 31, 2020

<sup>2</sup> Includes ATM through March 15, 2021

<sup>3</sup> NYSE American

<sup>4</sup> NYSE American + TSX; 3-month average Yahoo Finance

<sup>5</sup> As of March 22, 2021

# ENERGY FUELS

## THE LEADING U.S. PRODUCER OF CRITICAL MINERALS

- Unmatched ability to quickly increase low-cost U.S. uranium production from proven assets
- More production facilities + more capacity + more experience than any other U.S. uranium company
- Quickly moving toward production of a mixed REE carbonate – a stage more advanced than any other U.S. company – containing rare earths equal to nearly 10% of current U.S. REE demand
- U.S. Uranium Reserve + other government support for critical minerals
- Industry-leading recycling & cleanup programs
- Well-positioned financially with strong balance sheet, significant inventory + zero debt
- Vanadium inventory & production option with improving markets

Energy Fuels is responsibly producing the raw materials needed for today's clean energy & advanced technologies

# FORWARD LOOKING STATEMENTS

Certain of the information contained in this presentation constitutes "forward-looking information" (as defined in the Securities Act (Ontario)) and "forward-looking statements" (as defined in the U.S. Private Securities Litigation Reform Act of 1995) that are based on expectations, estimates and projections of management of Energy Fuels Inc. ("Energy Fuels") as of today's date. Such forward-looking information and forward-looking statements include but are not limited to: the business strategy for Energy Fuels; Energy Fuels expectations with regard to current and future uranium, vanadium and rare earth element ("REE") market conditions; the uranium industry's ability to respond to higher demand; the impacts of recent market developments; business plans; outlook; objectives; expectations as to the prices of  $U_3O_8$ ,  $V_2O_5$ , and REE's; expectations as to reserves, resources, results of exploration and related expenses; estimated future production and costs; changes in project parameters; the expected permitting and production time lines; the Company's belief that it has significant production growth potential and unmatched flexibility to scale-up production; the potential for additional business opportunities including vanadium, REE, alternate feed materials, and the cleanup of historic mines on the Navajo Nation and in the Four Corners Region of the U.S.; the potential for optimizing mining and processing; the Company's belief in its readiness to capitalize on improving markets; expectations with regard to the potential for U.S. government support of U.S. uranium miners; global uranium supply risks; expected worldwide uranium supply and demand fundamentals; any expectation that the proposed Uranium Reserve will be implemented and if implemented, the manner in which it will be implemented and the timing of implementation; any expectation that the White Mesa Mill will be successful in producing REE Carbonate on a commercial basis; any expectation that Energy Fuels will be successful in developing U.S. separation, or other value-added U.S. REE production capabilities at the White Mesa Mill, or otherwise; any expectation that the Company, Chemours and Neo will be successful in jointly developing a fully integrated U.S.-European REE supply chain; any expectation that the Company will be successful in fully integrating the U.S REE supply chain in the future; any expectation with respect to the future demand for REEs; any expectation with respect to the quantities of monazite ore to be acquired by Energy Fuels, the quantities of REE Carbonate to be produced by the White Mesa Mill or the quantities of contained TREO in the Mill's REE carbonate.

All statements contained herein which are not historical facts are forward-looking statements that involve risks, uncertainties and other factors that could cause actual results to differ materially from those expressed or implied by such forward-looking information and forward-looking statements. Factors that could cause such differences, without limiting the generality of the foregoing include: risks that the synergies and effects on value described herein may not be achieved; risks inherent in exploration, development and production activities; volatility in market prices for uranium, vanadium and REEs; the impact of the sales volume of uranium, vanadium and REEs; the ability to sustain production from mines and the mill; competition; the impact of change in foreign currency exchange; imprecision in mineral resource and reserve estimates; environmental and safety risks including increased regulatory burdens; changes to reclamation requirements; unexpected geological or hydrological conditions; a possible deterioration in political support for nuclear energy; changes in government regulations and policies, including trade laws and policies; demand for nuclear power, vanadium and REEs; replacement of production and failure to obtain necessary permits and approvals from government authorities; weather and other natural phenomena; ability to maintain and further improve positive labour relations; operating performance of the facilities; success of planned development projects; other development and operating risks; the Company not being successful in selling any uranium into the proposed Uranium Reserve at acceptable quantities or prices, or at all; available supplies of monazite sands; the ability of the White Mesa Mill to produce REE Carbonate to meet commercial specifications on a commercial scale at acceptable costs; market factors, including future demand for REEs; and the ability of Neo and Energy Fuels to finalize definitive agreements. Should one or more of these risks or uncertainties materialize, or should underlying assumptions prove incorrect, actual results may vary materially from those anticipated, believed, estimated or expected. Although Energy Fuels believes that the assumptions inherent in the forward-looking statements are reasonable, undue reliance should not be placed on these statements, which only apply as of the date of this presentation. Energy Fuels does not undertake any obligation to publicly update or revise any forward-looking information or forward-looking statements after the date of this presentation to conform such information to actual results or to changes in Energy Fuels' expectations except as otherwise required by applicable legislation.

Additional information about the material factors or assumptions on which forward looking information is based or the material risk factors that may affect results is contained under "Risk Factors" in Energy Fuels' annual report on Form 10-K, as amended, for the year ended December 31, 2020. These documents are available on SEDAR at [www.sedar.com](http://www.sedar.com) and on EDGAR at [www.sec.gov](http://www.sec.gov).

# NOTICE REGARDING TECHNICAL DISCLOSURE

All of the technical information in this presentation concerning Energy Fuels' properties was prepared in accordance with the Canadian regulatory requirements set out in National Instrument 43-101 - Standards of Disclosure for Mineral Projects of the Canadian Securities Administrators ("NI 43-101"). The technical information on each of the properties which are currently material to Energy Fuels is based on independent technical reports prepared in accordance with NI 43-101, as detailed below.

The following technical reports are available for viewing at [www.sedar.com](http://www.sedar.com) under Energy Fuels' SEDAR profile: Technical information regarding Energy Fuels' Colorado Plateau properties is based on the following technical reports: (i) "*Technical Report on the Henry Mountains Complex Uranium Property, Utah, U.S.A.*" dated June 27, 2012 authored by William E. Roscoe, Ph.D., P.Eng., Douglas H. Underhill, Ph.D., C.P.G., and Thomas C. Pool, P.E. of Roscoe Postle Associates Inc.; (ii) "*Updated Report on The Daneros Mine Project, San Juan County, Utah, U.S.A.*" dated March 2, 2018 authored by Douglas C. Peters, C.P.G., of Peters Geosciences; (iii) "*Updated Technical Report on Sage Plain Project (Including the Calliham Mine), San Juan County, Utah, USA*" dated March 18, 2015 authored by Douglas C. Peters, C.P.G., of Peters Geosciences; (iv) "*Updated Technical Report on Energy Fuels Resources Corporation's Whirlwind Property (Including Whirlwind, Far West, and Crosswind Claim Groups and Utah State Metalliferous Minerals Lease ML-49312), Mesa County, Colorado and Grand County, Utah*" dated March 15, 2011 authored by Douglas C. Peters, C.P.G., of Peters Geosciences. Technical information regarding Energy Fuels' Arizona Strip properties is based on the following technical reports: (i) "*Technical Report on the Arizona Strip Uranium Project, Arizona, U.S.A.*" dated June 27, 2012 and authored by Thomas C. Pool, P.E. and David A. Ross, M. Sc., P.Geo. of Roscoe Postle Associates Inc.; (ii) "*Technical Report on the EZ1 and EZ2 Breccia Pipes, Arizona Strip District, U.S.A.*" dated June 27, 2012 and authored by David A. Ross, M.Sc., P.Geo. and Christopher Moreton, Ph.D., P.Geo., of Roscoe Postle Associates Inc.; (iii) "*NI 43-101 Technical Report on Resources Wate Uranium Breccia Pipe – Northern Arizona, USA*" dated March 10, 2015 and authored by Allan Moran, CPG AIPG and Frank A. Daviess, MAusIM, RM SME of SRK Consulting (US), Inc.; and (iv) "*Technical Report on the Canyon Mine, Coconino County, Arizona, U.S.A.*" dated October 6, 2017, and authored by Mark B. Mathisen, C.P.G., Valerie Wilson, M.Sc., P.Geo., and Jeffrey L. Woods, QP MMSA of Roscoe Postle Associates. The technical information in this presentation regarding the Sheep Mountain Project is based on the technical report entitled "*Sheep Mountain Uranium Project, Updated Preliminary Feasibility Study National Instrument 43-101 Technical Report Amended & Restated*" dated February 28, 2020 authored by Douglas L. Beahm P.E., P.G. The technical information in this presentation regarding the Roca Honda Project is based on the technical report entitled "*Technical Report on the Roca Honda Project, McKinley County, New Mexico, U.S.A.*" dated October 27, 2016 authored by Robert Michaud, P.Eng; Stuart E. Collins, P.E.; Mark B. Mathisen, CPG, of RPA (USA) Ltd. and Harold R. Roberts, P.E. and COO of Energy Fuels. The technical information in this presentation regarding the La Sal project is based on a technical report entitled "*Technical Report on La Sal District Project (Including the Pandora, Beaver and Energy Queen Projects), San Juan County, Utah, U.S.A.*" dated March 26, 2014 authored by Douglas C. Peters, CPG. The technical information in this presentation regarding the Alta Mesa ISR Project is based on a technical report entitled "*Alta Mesa Uranium Project, Alta Mesa and Mesteña Grande Mineral Resources and Exploration Target, Technical Report National Instrument 43-101*", dated July 19, 2016 authored by Douglas L. Beahm, P.E., P.G. of BRS Engineering.

The following technical reports are available for viewing at [www.sedar.com](http://www.sedar.com) under Uranerz' SEDAR profile: The technical information in this presentation regarding the Nichols Ranch, Jane Dough, and Hank properties is based on the technical report entitled "*Nichols Ranch Uranium Project 43-101 Technical Report – Preliminary Economic Assessment - Campbell and Johnson Counties, Wyoming*" dated February 25, 2015" authored by Douglas L. Beahm, P.E., P.G. of BRS and Paul Goranson, P.E. of Uranerz Energy Corporation. The technical information in this presentation regarding the Reno Creek Property is based on the technical report entitled "*Reno Creek Property: Technical Report - Reno Creek Property- Campbell County, Wyoming, U.S.A.*" dated October 13, 2010" authored by Douglass H. Graves, P.E. of TREC, Inc. The technical information in this presentation regarding Uranerz' West North Butte Properties is based on the technical report entitled "*West North Butte Properties: Technical Report - West North Butte Satellite Properties - Campbell County, Wyoming, U.S.A.*" dated December 9, 2008" Douglass H. Graves, P.E. of TREC, Inc. The technical information in this presentation regarding Uranerz' North Rolling Pin Property is based on the technical report entitled "*North Rolling Pin Property: Technical Report - North Rolling Pin Property - Campbell County, Wyoming, U.S.A.*" dated June 4, 2010" authored by Douglass H. Graves, P.E. of TREC, Inc.

Daniel Kapostasy, P.G., is a Qualified Person as defined by NI 43-101 and has reviewed and approved the technical disclosure contained in this document.

# CAUTIONARY STATEMENTS FOR U.S. INVESTORS CONCERNING MINERAL RESOURCES

This presentation may use the terms “Measured,” “Indicated” and “Inferred” Resources. U.S. investors are advised that, while such terms are recognized and required by Canadian regulations applicable to Energy Fuels as a company listed on the Toronto Stock Exchange (“TSX”), the United States Securities and Exchange Commission (“SEC”) does not recognize them under SEC Industry Guide 7, as defined below. “Inferred Resources” have a great amount of uncertainty as to their existence, and great uncertainty as to their economic feasibility. It cannot be assumed that all or any part of an Inferred Resource will ever be upgraded to a higher category. Under Canadian rules, estimates of Inferred Resources may not form the basis of feasibility or pre-feasibility studies. U.S. investors are cautioned not to assume that all or any part of Measured or Indicated Mineral Resources will ever be converted into mineral “reserves” as defined under SEC Industry Guide 7. Accordingly, U.S. investors are advised that information regarding Mineral Resources contained in this presentation may not be comparable to similar information made public by United States companies who report in accordance with SEC Industry Guide 7.

US reporting requirements for disclosure of mineral properties are governed by the SEC’s Securities Act Industry Guide 7 entitled “Description of Property by Issuers Engaged or to be Engaged in Significant Mining Operations” (“Guide 7”). However, mineral resources disclosed in this presentation and in the NI 43-101 technical reports referenced herein have been estimated in accordance with the definition standards on mineral resources and mineral reserves of the Canadian Institute of Mining, Metallurgy and Petroleum referred to in National Instrument 43-101, commonly referred to as “NI 43-101.” The NI 43-101 technical reports referenced herein are a requirement of NI 43-101, and include estimations of mineral resources and potential mineral resources for further targeted exploration by Energy Fuels, disclosed pursuant to the applicable provisions of NI 43-101. As a company listed on the TSX, Energy Fuels is required by Canadian law to provide disclosure in accordance with NI 43-101. NI 43-101 and Guide 7 standards are substantially different. For example, the terms “mineral reserve,” “proven mineral reserve” and “probable mineral reserve” are Canadian mining terms defined in accordance with NI 43-101. These definitions differ from the definitions in Guide 7. The NI 43-101 technical reports and this presentation use or may use the terms “probable mineral reserve,” “mineral resource,” “measured mineral resource,” “indicated mineral resource,” “inferred mineral resource,” “potential uranium exploration target,” “potential mineral resource,” “potential mineral deposit” and “potential target mineral resource”. US Investors are advised that these terms and concepts are set out in and required to be disclosed by NI 43-101 as information material to Energy Fuels; however, these terms and concepts are not recognized by the SEC under Guide 7, and these terms and concepts are normally not permitted to be used in reports and registration statements filed with the SEC pursuant to Guide 7. US Investors should be aware that Energy Fuels has no “reserves” as defined by Guide 7 and are cautioned not to assume that any part or all of an inferred mineral resource or potential target mineral resources will ever be upgraded to a higher category or confirmed or converted into Guide 7 compliant “reserves.” US Investors are cautioned not to assume that all or any part of a potential mineral resource exists or is economically or legally mineable.

# RESOURCE SUMMARY

URANIUM				Measured			Indicated			Inferred		
	Tons ('000)	Grade (% U <sub>3</sub> O <sub>8</sub> )	Lbs. U <sub>3</sub> O <sub>8</sub> ('000)	Tons ('000)	Grade (% U <sub>3</sub> O <sub>8</sub> )	Lbs. U <sub>3</sub> O <sub>8</sub> ('000)	Tons ('000)	Grade (% U <sub>3</sub> O <sub>8</sub> )	Lbs. U <sub>3</sub> O <sub>8</sub> ('000)	Tons ('000)	Grade (% U <sub>3</sub> O <sub>8</sub> )	Lbs. U <sub>3</sub> O <sub>8</sub> ('000)
Nichols Ranch	641	0.13%	1,694	428	0.13%	1,079	-	-	-	-	-	-
Jane Dough <sup>2</sup>	-	-	-	1,533	0.11%	3,567	138	0.11%	309	138	0.11%	309
Hank <sup>2</sup>	-	-	-	450	0.10%	855	423	0.10%	803	423	0.10%	803
West North Butte Satellite Properties	-	-	-	926	0.15%	2,837	1,117	0.12%	2,682	1,117	0.12%	2,682
North Rolling Pin	310	0.06%	387	272	0.05%	278	39	0.04%	33	39	0.04%	33
Arkose Mining Venture <sup>2</sup>	-	-	-	-	-	-	1,667	0.10%	3,293	1,667	0.10%	3,293
Wyoming ISR Total	951	0.11%	2,081	3,609	0.12%	8,616	3,384	0.11%	7,120	3,384	0.11%	7,120
Alta Mesa ISR Project	123	0.15%	371	1,512	0.11%	3,246	6,964	0.12%	16,794	6,964	0.12%	16,794
Henry Mountains Complex	-	-	-	2,410	0.27%	12,805	1,615	0.25%	8,082	1,615	0.25%	8,082
Sheep Mountain Project <sup>1</sup>	-	-	-	11,663	0.12%	27,935	-	-	-	-	-	-
Roca Honda Project	208	0.48%	1,984	1,303	0.48%	12,580	1,198	0.47%	11,206	1,198	0.47%	11,206
Pinyon Plain	6	0.43%	56	132	0.90%	2,378	18	0.44%	134	18	0.44%	134
Wate	-	-	-	-	-	-	71	0.79%	1,118	71	0.79%	1,118
EZ Complex	-	-	-	-	-	-	224	0.47%	2,105	224	0.47%	2,105
Arizona 1	-	-	-	-	-	-	26	0.26%	134	26	0.26%	134
Arizona Strip Total	6	0.43%	56	132	0.90%	2,378	339	0.51%	3,491	339	0.51%	3,491
La Sal Complex	1,010	0.18%	3,732	132	0.14%	367	185	0.10%	361	185	0.10%	361
Whirlwind	-	-	-	169	0.30%	1,003	437	0.23%	2,000	437	0.23%	2,000
Daneros	-	-	-	20	0.36%	142	7	0.37%	52	7	0.37%	52
Sage Plain	444	.18	1,540	31	0.11%	71	12	0.16%	37	12	0.16%	37
Colorado Plateau Total	1,453	0.18%	5,272	352	0.22%	1,583	641	0.19%	2,450	641	0.19%	2,450
<b>Total Uranium</b>			<b>9,764</b>			<b>69,143</b>			<b>49,143</b>			<b>49,143</b>

VANADIUM				Tons ('000)			Grade (% V <sub>2</sub> O <sub>5</sub> )			Lbs. V <sub>2</sub> O <sub>5</sub> ('000)		
	Tons ('000)	Grade (% V <sub>2</sub> O <sub>5</sub> )	Lbs. V <sub>2</sub> O <sub>5</sub> ('000)	Tons ('000)	Grade (% V <sub>2</sub> O <sub>5</sub> )	Lbs. V <sub>2</sub> O <sub>5</sub> ('000)	Tons ('000)	Grade (% V <sub>2</sub> O <sub>5</sub> )	Lbs. V <sub>2</sub> O <sub>5</sub> ('000)	Tons ('000)	Grade (% V <sub>2</sub> O <sub>5</sub> )	Lbs. V <sub>2</sub> O <sub>5</sub> ('000)
La Sal Complex	1,010	0.97%	19,596	132	0.73%	1,930	185	0.51%	1,902	185	0.51%	1,902
Other	240	1.32%	6,350	198	0.96%	3,816	447	0.74%	6,600	447	0.74%	6,600

COPPER				Tons ('000)			Grade (% Cu)			Lbs. Cu ('000)		
	Tons ('000)	Grade (% Cu)	Lbs. Cu ('000)	Tons ('000)	Grade (% Cu)	Lbs. Cu ('000)	Tons ('000)	Grade (% Cu)	Lbs. Cu ('000)	Tons ('000)	Grade (% Cu)	Lbs. Cu ('000)
Canyon	6	9.29%	1,203	94	5.70%	10,736	5	5.90%	570	5	5.90%	570

<sup>1</sup> Sheep Mountain Project's 30m lbs. of Indicated Resources includes Probable Mineral Reserves of 18.4 million lbs. of U<sub>3</sub>O<sub>8</sub> contained in 7.4 million tons at a grade of 0.123% U<sub>3</sub>O<sub>8</sub> in accordance with NI 43-101.

<sup>2</sup> Figure includes only joint venture share of mineral resources applicable to Energy Fuels.

**Cautionary Note to U.S. Investors:** The Company is without known mineral reserves under SEC Industry Guide 7. Measured, Indicated, and Inferred Resources are estimated in accordance with NI 43-101 (Canada) and do not constitute SEC Industry Guide 7 compliant reserves. See the section heading "Cautionary Statements for U.S. investors Concerning Mineral Resources" herein.