

Uranium
Rare Earth Elements
Vanadium
Medical Isotopes
Recycling



America's Leading Producer of Critical Minerals

Energy Fuels Inc.
UUUU NYSE American
EFR TSX
March 7, 2022

IMPORTANT INFORMATION

- Please carefully review important information about this presentation
 - Forward looking statements, page 26
 - Notice regarding technical disclosure, page 27
 - Cautionary statements for US investors concerning mineral resources, page 28

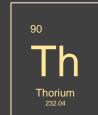


ENERGY FUELS

RESPONSIBLY PRODUCING THE RAW MATERIALS NEEDED FOR THE CLEAN ENERGY REVOLUTION

Uranium 238.03

23 Vanadium



Gd

URANIUM (CORE BUSINESS)

We are the largest U.S. producer of uranium, the fuel for carbon- & emission-free nuclear energy

RARE EARTH ELEMENTS (REE)

In 2021, we began recovering REEs, used in electric vehicles (EVs), renewable energy, batteries & other technologies

VANADIUM

We were the largest U.S. producer of vanadium in 2019; Used in steel, high-strength alloys & grid-scale batteries

MEDICAL ISOTOPES

We are evaluating the recovery of medical isotopes for use in emerging cancer therapies from existing process streams

RECYCLING

We preserve global resources & help address climate change through industry-leading recycling programs

FINANCIAL STRENGTH + ZERO DEBT

\$133 million of working capital, including 691,000 lbs. U.S.-produced U_3O_8 & 1,672,000 lbs. high-purity $V_2O_5^1$

ENVIRONMENTAL & SOCIAL RESPONSIBILITY

E.S.G. IN ACTION

The focus of our business – uranium, rare earths, vanadium & recycling – is E.S.G. focused

September 16, 2021: Energy Fuels Creates & Funds the San Juan County Clean Energy Foundation

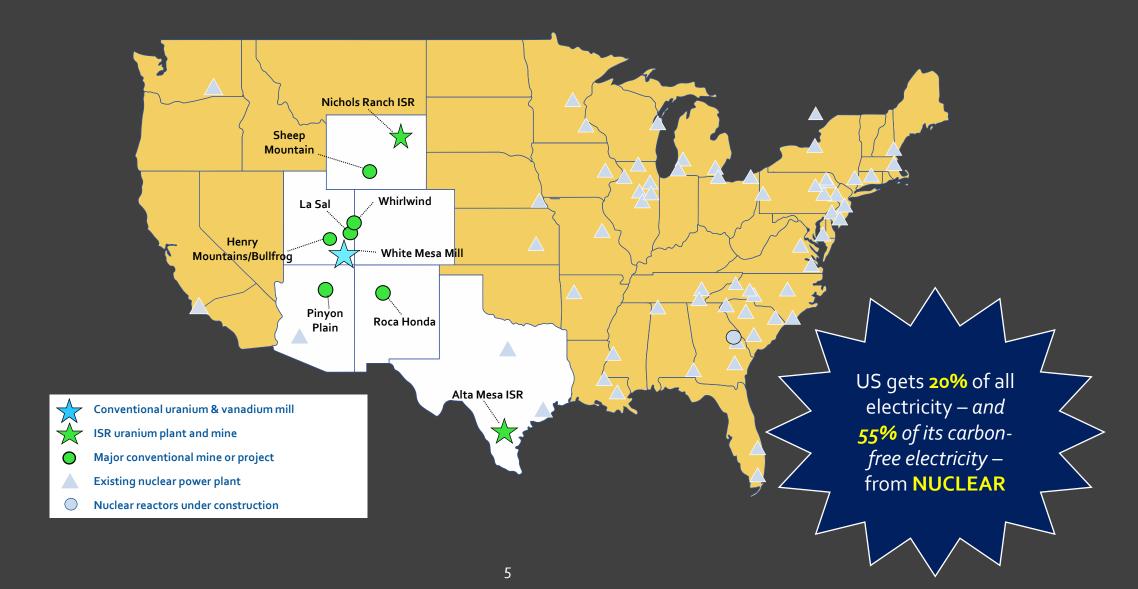
- Demonstrates our commitment to supporting disadvantaged communities near our White Mesa Mill in Utah
- Funds local education, health/wellness, environmental & Tribal/Indigenous initiatives
- \$1 million initial cash contribution in 2021 + ongoing funding equal to 1% of annual revenues from White Mesa Mill

<u>December 2020 Sustainability Report</u>:

- Describes our commitment to health, safety & environmental responsibility;
- How Energy Fuels helps address climate change & air pollution;
- Our industry-leading recycling programs;
- How we benefit the communities in which we operate; and
- Details our industry's modern, comprehensive regulatory framework

ENERGY FUELS IS #1 IN U.S. URANIUM

THE LARGEST U.S. PRODUCER SINCE 2017



PROVEN URANIUM PRODUCTION

LEADING U.S. PRODUCTION PORTFOLIO

Licensed & Developed Conventional



WHITE MESA MILL (UTAH) - PRODUCING

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



PINYON PLAIN MINE (ARIZONA) - STANDBY

- Licensed & substantially developed high-grade uranium mine
- Ore to be processed at the White Mesa Mill
- Likely the lowest-cost uranium mine in the U.S. today

Licensed & Developed *In Situ* Recovery ("ISR")



ALTA MESA ISR (TEXAS) – STANDBY

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

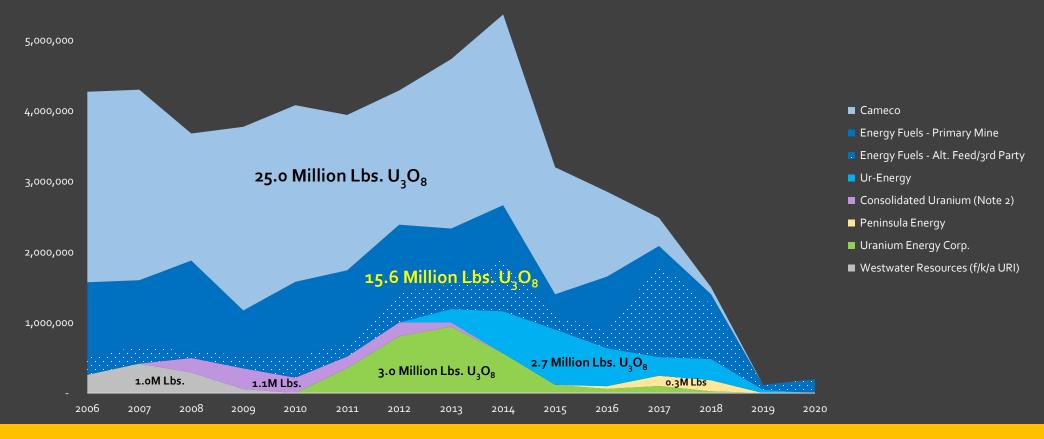


NICHOLS RANCH ISR (WYOMING) - STANDBY

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

AMERICA'S PROVEN URANIUM PRODUCERS

SINCE 2006, 86% OF ALL U.S. URANIUM PRODUCED BY ASSETS OWNED BY CAMECO & ENERGY FUELS



Companies with <u>proven facilities</u> are best positioned to respond to improved markets



¹ Actual production from U.S. projects as reported by each company, including production from assets prior to acquisition.

2 All uranium ore produced from mines now owned by Consolidated Uranium was milled at Energy Fuels' White Mesa Mill; these amounts are not included in Energy Fuels' total

MARKET POSITION – URANIUM

NORTH AMERICAN SPACE AS OF MARCH 4, 20221

COMPANY	MARKET CAP (US\$MM)	CASH, SECURITIES, INVENTORY (US\$MM)	TOTAL DEBT (US\$MM)	URANIUM INVENTORY (MM LBS.) ²	URANIUM	RARE EARTHS	VANADIUM	MEDICAL ISOTOPES	RECYLCLING
Cameco	\$9,381	\$1,930	(\$779)	8.0	√	×	×	×	×
NexGen Energy	\$2,447	\$165²	(\$56) ²	×	\checkmark	×	×	×	×
Energy Fuels	\$1,276	\$131 ¹	\$ 0	0.69	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Denison Mines	\$1,184	\$170 ²	\$ 0	2.5	\checkmark	×	×	×	×
Uranium Energy Corp	\$1, 054	\$156 ⁴	(\$10)	1.0 ⁴	\checkmark	×	×	*	×
Fission Uranium	\$460	\$45 ²	(\$6)	×	\checkmark	×	×	*	×
Ur-Energy	\$343	\$41	(\$12)	0.28	\checkmark	×	×	×	×
Peninsula Energy	\$133 ⁶	\$17 ⁶	\$0	0.02 ⁶	\checkmark	×	×	×	×

¹ This chart reflects the most recent publicly available information; Energy Fuels' information is disclosed in its Form 10-Q for the quarter ended September 30, 2021

⁴ Announced additional purchases of 3.1 million lbs. of uranium on the open market; deliveries to occur during 2022 - 2025.



² Cdn\$ = US\$0.782

³ Au\$ = US\$0.732

RARE EARTHS + URANIUM

COMPLEMENTARY BUSINESS OPPORTUNITIES FOR ENERGY FUELS

What are rare earth elements?

- Series of 17 naturally-occurring elements
- Building blocks of numerous clean energy
 & advanced technologies
- Electric vehicles (EVs), wind energy, batteries, cell phones, computers, flatscreen displays, advanced optics, permanent magnets, medical devices, lasers & defense applications
- Up to a 5-fold projected increase in demand for magnet REE oxides through 2030¹

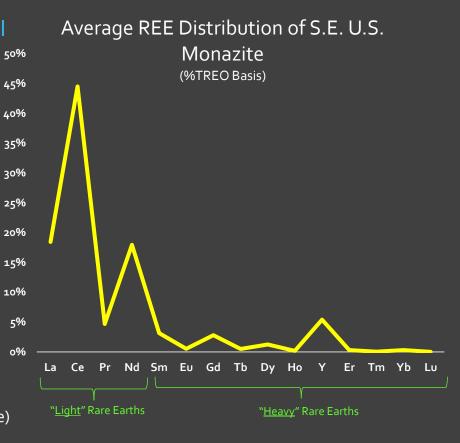
- Could Energy Fuels be the "missing link" in rare earth production?
 - The highest-value REE-bearing minerals including monazite also contain uranium & other naturally radioactive elements that must be managed
 - Energy Fuels' White Mesa Mill in Utah is the only existing facility in North America (possibly outside of China) with the licenses & capabilities to process monazite
- In 2021, Energy Fuels began **commercial** production of an intermediate REE product Rare Earth Carbonate from U.S.-mined monazite
 - No other U.S. company is producing a more advanced REE product
- Energy Fuels plans to fully integrate REE production in the next 2-3 years

¹ Adamas Intelligence

WHY FOCUS ON MONAZITE?

A SUPERIOR RARE EARTH MINERAL – ALREADY PRODUCED AT EXISTING MINES

- Monazite sand is currently produced as a low-cost <u>byproduct</u> of heavy mineral sand (HMS) mining
 - Southeast U.S., Australia, Brazil, Africa & elsewhere
 - Main target metals at HMS mines are zirconium & titanium minerals, with monazite sand recovered as a <u>low-cost byproduct</u>
- Monazite is <u>very</u> high-grade
 - ~53% 55% TREO (Total Rare Earth Oxides)
 - Some from Australia is over 60% TREO
- Monazite has <u>superior</u> distributions of REEs needed for permanent magnets (% TREO Basis):
 - ~22.1% NdPr + ~13.8% "Heavies" (\$25,895/ton "basket value")
 - Typical U.S. "bastnaesite" ore contains only ~16.3% NdPr + ~1.1% "Heavies" (\$10,751/ton)
 - Much greater recoveries of magnetic REE's from monazite (phosphate) vs. bastnaesite (fluoride)



The "problem" with monazite is that it contains higher concentrations of uranium & thorium Energy Fuels can recover & manage the uranium & thorium – unlock the REE value of monazite



UNIQUE CAPABILITIES OF THE WHITE MESA MILL

THE "MISSING LINK" IN THE U.S. REE SUPPLY CHAIN

- White Mesa Mill is the <u>only</u> facility in North America currently licensed
 & capable of processing monazite for recovery of REE's
 - Existing mill license allows monazite processing
 - Uranium & thorium are problems for most companies <u>they are value-adds for Energy Fuels</u>
- Highly scalable + ample capacity:
 - Mill has licensed capacity to process ~720,000 tons of ore per year
 - Currently processing ~1,000 tons of monazite per year (~0.1% of annual capacity)
 - Goal to process ~15,000 30,000 tons of monazite per year (~2-4% of annual capacity)
- Relatively little waste is generated
 - Small relative quantities of feed to begin with
 - 50%+ of feed is recovered as finished REE & uranium product
 - Waste will use less than 2% of capacity in existing, 1,000-year design tailings management system





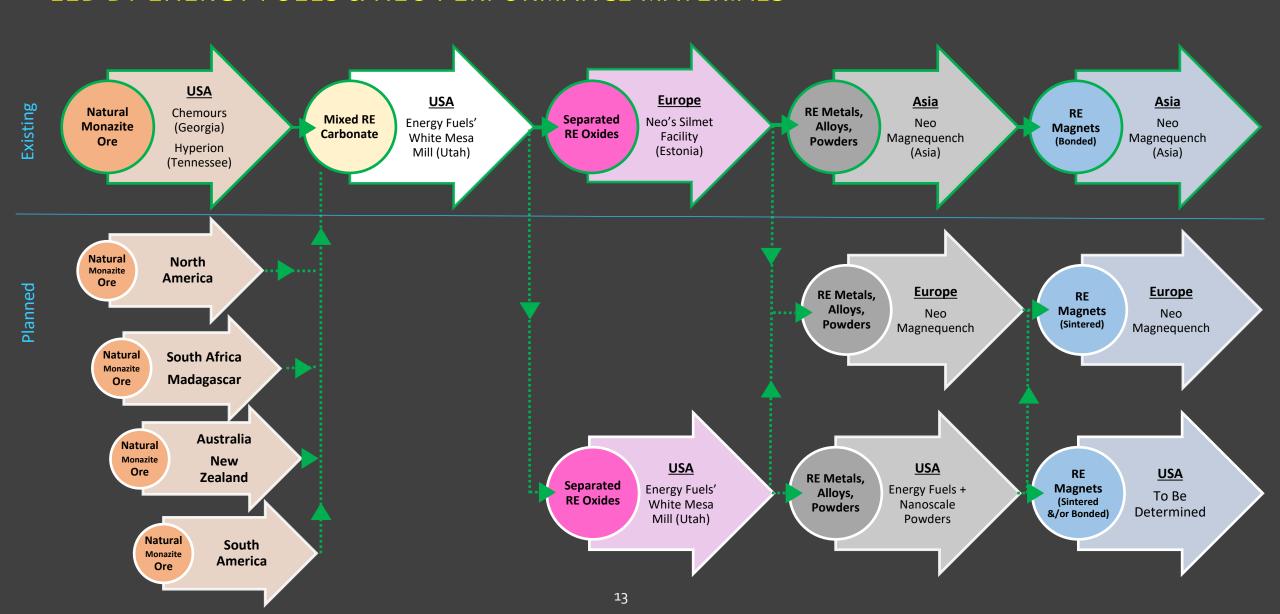
LAUNCHING RARE EARTH SUPPLY CHAINS

HIGHLY CAPITAL EFFICIENT PLAN USING EXISTING FACILITIES

- Short-Term Business Plan (Now): U.S.-E.U Supply Chain
 - Energy Fuels is currently purchasing natural monazite sand being produced at an <u>existing</u> HMS operations owned by The Chemours Company in Georgia (USA) (NYSE:CC)
 - Seeking to purchase additional monazite supply in advanced discussions with major existing suppliers globally
 - Producing a REE carbonate at our <u>existing</u> White Mesa Mill in Utah
 - Delivering REE carbonate to <u>existing</u> separation facility owned by Neo Performance Materials in Europe (TSX: NEO)
- Long-Term Business Plan (2023/4): U.S.-Centric Supply Chain
 - Develop fully-integrated REE separation & value-added REE capabilities at White Mesa Mill:
 - Capture full value of rare earth supply chain
 - Collaboration with Carester SAS; extensive experience recovering & separating rare earths from monazite using solvent extraction (SX) technology
 - Collaboration with Nanoscale Powders ("NSP") to develop low-cost, low-impact REE metal-making technologies
 - White Mesa Mill has a 40+ year history of recovering uranium & vanadium using SX technology

Rebuilt U.S./E.U. Rare Earth Supply Chains

LED BY ENERGY FUELS & NEO PERFORMANCE MATERIALS



Energy Fuels' 2021 RE Carbonate Production

White Mesa Mill (Utah)



Laboratory analysis of REEs at Energy Fuels' White Mesa Mill

1 tonne "supersacks" of mixed RE carbonate loaded into container bound for Estonia





Multi-stage lab-scale solvent extraction (SX) REE separation occurring today (36-stages currently & increasing)

Monazite "crack-and-leach" ongoing at Energy Fuels' White Mesa Mill

Energy Fuels' 2021 REE Carbonate Production

Our People



Energy Fuels' personnel at White Mesa Mill (Utah)

Worker inside of Energy Fuels' White Mesa Mill





Energy Fuels' personnel operating REE equipment at White Mesa Mill (Utah)

(Left to Right) Mark Chalmers (EF), Logan Shumway (EF) & Constantine Karayannopoulos (Neo) next to packaging equipment

COLLABORATION WITH NANOSCALE POWDERS

TO DEVELOP LOW-COST, LOW-EMISSION RARE EARTH METALS

December 15, 2021: Announced Strategic Alliance with Nanoscale Powders

- Purpose is to develop innovative rare earth metal-making technologies
- Revolutionary technology has potential to reduce costs, significantly reduce greenhouse gas
 emissions, reduce labor, improve safety, and reduce energy use versus traditional REE metalmaking tech
- Feeds anhydrous separated REE chloride materials, free of water, into a molten sodium bath
- A key step in Energy Fuels' goal to restore a fully integrated REE supply chain in the U.S.



WHY WILL ENERGY FUELS SUCCEED?

WHERE OTHERS HAVE STRUGGLED?

- 1. Energy Fuels currently has the licenses & capabilities to handle the radionuclides in monazite
 - We can recover and monetize the uranium & possibly the thorium as significant value-adds these are a problem for others
- 2. Monazite has much more value relative to other REE minerals
 - ~30% higher in NdPr; ~95% higher in "heavy" REEs (versus bastnaesite) + higher recoveries of magnetic REEs
- 3. Monazite is already mined in the U.S. & around the world as a low-cost byproduct
 - No current need to build new mines + most mining costs carried by primary zircon & titanium production
- 4. Monazite is more straightforward to process than other REE minerals
 - Chemically easier to recover the REEs from the phosphates in monazite vs the fluorides in bastnaesite + higher recoveries of magnetics
- 5. Low cost & capital efficient
 - Using existing licenses & facilities saves considerable time & money
- 6. Energy Fuels has used solvent extraction (SX) processing technology for uranium & vanadium recovery for 40+ year
 - Relatively easy for us to pivot & apply existing SX know-how to REE recovery & separation
- 7. Focusing on proven REE separation technologies using SX
 - We are not "reinventing the wheel" or attempting to license & deploy new technologies
- 8. Utah is a relatively low-cost & supportive jurisdiction in which to operate
 - Compared to other locations where REEs are produced (California, Australia, etc)

The #1
challenge to
"unlocking" the
value of
monazite has
been the
radionuclides.

Energy Fuels has solved this challenge.



MARKET POSITION – RARE EARTHS

GLOBAL SPACE AS OF MARCH 4, 2022

COMPANY MARKET CAI (US\$MM)		PRIMARY ORE CONCENTRAT MINERAL "BASKET VALUE" (U				MIXED REE CONCENTRATE PRODUCTION		REE SEPARATION		
П	MP Materials	\$6,975	Bastnaesite (US-California)	\$10,751	CURRENT	PLANNED	CURRENT	PLANNED	CURRENT	PLANNED
10	Lynas	\$6,680	Monazite (Australia)	\$21,817	\checkmark		\checkmark		\checkmark	
Producers	Iluka Resources	\$3 , 317 ⁵	Monazite (Australia)	\$24,290	\checkmark		×	✓	×	✓
Pr	Energy Fuels ¹	\$1,276	Monazite (US–Georgia)	\$25,895	×	1	√		×	✓
	Neo Performance Materials ²	\$459 ⁴	n/a	n/a	×	2	×	2	\checkmark	
				IN SITU ORE VALUE PRE- BENEFICIATION (us\$) ⁴						
pers	Texas Mineral Resources	\$140	Bastnaesite (US-Texas)	\$41	×	✓	×	√	×	✓
Developers	Rare Element Resources	\$133	Bastnaesite (US-Wyoming)	\$1,212	×	√	×	√	×	✓
¹ Does n	Ucore Rare Metals ot plan to be a miner; purchasing monazite from HMS operator	\$34 s and processing in Uta	Bastnaesite (US-Alaska)	\$414	×	✓	×	√	×	√

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



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

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

⁴ Cdn\$ = US\$0.782

⁵ Au\$ = US\$0.732

VANADIUM

A CRITICAL MINERAL ENERGY FUELS PRODUCES IN RESPONSE TO MARKETS

- Used in steel, high-strength alloys, aerospace, chemicals & grid-scale battery technologies
- Critical mineral in U.S. and Canada
- Energy Fuels' 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 \$19.8 million at today's price of \$11.88 per lb.¹)
 - Additional \sim 1.5 3.0 million lbs. of potentially recoverable inventory in tailings solutions
 - Plan to sell inventory & resume production when market conditions warrant
 - White Mesa Mill has produced over 50 million pounds of V₂O₅ during its history
 - V₂O₅ prices are up 120% since January 2021



MEDICAL ISOTOPES FROM THORIUM

ALLIANCE WITH RADTRAN FOR RECOVERY OF ISOTOPES NEEDED FOR NEW CANCER THERAPIES

- July 29, 2021: Execution of Strategic Alliance Agreement
 - RadTran is a Colorado based technology development company focused on closing critical gaps in the procurement of medical isotopes
 - Initiative will investigate the recovery of isotopes from Energy Fuels' existing uranium & REE process streams (wastes)
 - Focus on emerging targeted alpha therapy (TAT) cancer therapeutics
- Alpha-Emitting Isotopes in Short Supply
 - Major pharmaceutical companies studying TAT & advancing with the FDA (and around the world)
 - Objective to treat cancer on a cellular level, while minimizing damage to surrounding healthy tissue
 - Existing methods of production are costly & currently unable to scale-up to meet demand
 - RadTran technologies are backed by the Pacific Northwest National Laboratory (PNNL, U.S. Dept. of Energy)
- Significant potential benefits to Energy Fuels
 - White Mesa Mill represents a possible solution to the medical supply chain
 - Existing feed sources (natural monazite & other ores) contain thorium, radium & other needed elements
 - Potential for significant revenues
- Another example of Energy Fuels leveraging our unique & highly specialized capabilities



URANIUM RECYCLING

SAVING THE WORLD'S RESOURCES & REDUCING CARBON EMISSIONS

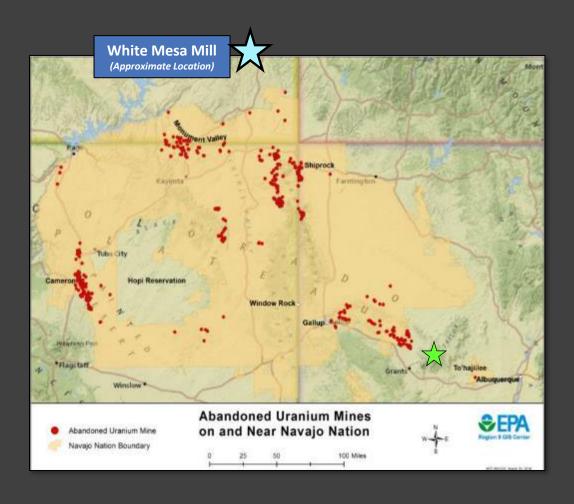
- Energy Fuels recycles materials for the recovery of uranium & vanadium that would otherwise be lost to direct disposal
- Recycling reduces the need for mining & reduces carbon-emissions
- The White Mesa Mill's recycling programs have recovered 6 million lbs. of uranium
 - If converted to nuclear fuel, Energy Fuels' recycled uranium would:
 - Eliminate over 85 million tons of CO₂ 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 or rare earth 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)





ACCRETIVE DISPOSITION

COMPLETED SALE OF PACKAGE OF NON-CORE ASSETS TO UNLOCK VALUE

- October 27, 2021: Completed sale of several non-core conventional uranium assets in Utah and Colorado to Consolidated Uranium Inc. (TSXV: CUR)
 - Tony M mine, Daneros mine, Rim mine, Sage Plain & several DOE leases + toll-milling agreement at White Mesa Mill
 - High-quality, fully-licensed & partially-developed
- Total consideration up to US\$42 million¹
 - US\$2 million cash at closing
 - 19.9% of the outstanding shares of CUR (CUR had US\$139 million market cap at January 21, 2021)
 - Cdn\$6 million of deferred cash payments (Cdn\$3 million at 18- and 36-month anniversaries of closing)
 - Cdn\$5 million of contingent cash payments tied to achieving commercial production
- Additional benefits to Energy Fuels:
 - Reduced holding & compliance costs
 - Management agreement to generate some cash & provide continued operational oversight
 - Potential future revenue from toll milling ore from these mines at the White Mesa Mill
 - Seat on CUR board of directors



FINANCIAL STRENGTH + FLEXIBILITY

\$131M

Cash, Securities & Inventory^{1,2}

691,000 .672.000

Lbs. uranium inventory¹

Lbs. vanadium inventory¹

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

	Value on Books (\$/Lb) ¹	Current Price (\$/Lb)4	% Up/ (Down)		
U ₃ O ₈	\$23.79	\$50.25	+111%		
V ₂ O ₅	\$5.11	\$11.88	+132%		

2021 Guidance

- No uranium production; all retained in-circuit
- 691,000 lbs. of uranium inventory at year end
- Approx. 400 600 tonnes of mixed REE carbonate production containing approx. 180 – 270 tonnes of TREO

Market Position

Share Price (Mar. 4, 2022)³ \$8.19

• 52-Week Range² \$4.32 - \$11.39

Average Daily Volume³
 3.8 million shares

• Shares Outstanding⁵ 155.6 million

Market Cap \$1,274 million

Zero Debt



¹ As of the quarter-ended September 30, 2021

² NYSE American

³ NYSE American + TSX; 3-month average Yahoo Finance

⁴ As of Mar. 4 2022

⁵ As of Oct. 28, 2021

ENERGY FUELS

EXPOSURE TO SEVERAL CRITICAL MINERALS NEEDED FOR THE CLEAN ENERGY REVOLUTION

Uranium: Unmatched ability to quickly increase low-cost U.S. uranium production from proven assets

More production facilities, capacity & experience than any other U.S. company

Rare Earths: Producing REE carbonate – a product more advanced than any other U.S. company

Quickly advancing toward full-integration of U.S.-centric rare earth supply chain

Vanadium: Significant existing inventory & production option with improving markets

Medical Isotopes: For emerging cancer therapies produced from existing uranium & thorium feeds

Recycling: Industry-leading programs that save resources & help address climate change

Financial Strength: Well-positioned financially with strong balance sheet, significant inventory + zero debt

Energy Fuels produces the raw materials needed for many of today's clean energy & advanced technologies – in the U.S. to the highest global standards



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 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 or otherwise; any expectation that the Company, Chemours and Now will be successful in jointly developing a fully integrated U.S. European REE supply chain; any expectation that the Company will be successful in f

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 Messa 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 s

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 and on EDGAR at 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 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 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 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 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 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 deposit" and "potential target mineral resource," "listential target mineral resource," "security," "mineral resource," "listential target," "potential mineral resource," "potential deposit" and "potential target mineral resource," "security," "potential mineral resource," "potential deposit" and "potential target mineral resource," "security," and these terms and concepts are normally not permitted to be disclosed by NI 43-101 as information material to Energy Fuels, however, t



RESOURCE SUMMARY

URANIUM		Measured			Indicated		Inferred		
	Tons ('ooo)	Grade (% U ₃ O ₈)	Lbs. U ₃ O ₈ ('000)	Tons ('ooo)	Grade (% U ₃ O ₈)	Lbs. U ₃ O ₈ ('000)	Tons ('ooo)	Grade (% U₃O ₈)	Lbs. U ₃ O ₈ ('000)
Nichols Ranch	641	0.13%	1,694	428	0.13%	1,079	-	-	
Jane Dough²	-	-	-	1,533	0.11%	3,567	138	0.11%	309
Hank²	-	-	-	450	0.10%	855	423	0.10%	803
West North Butte Satellite Properties	-	-	-	926	0.15%	2,837	1,117	0.12%	2,682
North Rolling Pin	310	0.06%	387	272	0.05%	278	39	0.04%	33
Arkose Mining Venture ²	-	-	-	-	-	-	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
Alta Mesa ISR Project	123	0.15%	371	1,512	0.11%	3,246	6,964	0.12%	16,794
Henry Mountains Complex (Bullfrog)			-	720	0.33%	4,670	750	0.36%	5,330
Sheep Mountain Project¹			-	11,663	0.12%	27,935			<u> </u>
Roca Honda Project	208	0.48%	1,984	1,303	0.48%	12,580	1,198	0.47%	11,206
Pinyon Plain	6	0.43%	56	132	0.90%	2,378	18	0.44%	134
Wate	-	-	-	-	-	-	71	0.79%	1,118
EZ Complex	-	-	-	-	-	-	224	0.47%	2,105
Arizona 1	-	<u>-</u>	-	-	-	-	26	0.26%	134
Arizona Strip Total	6	0.43%	56	132	0.90%	2,378	339	0.51%	3,491
La Sal Complex	1,010	0.18%	3,732	132	0.14%	367	185	0.10%	361
Whirlwind	-	-	-	169	0.30%	1,003	437	0.23%	2,000
Colorado Plateau Total	1,010	0.18%	3,732	301	0.23%	1,370	622	0.19%	2,361
Total Uranium			8,224			60,795			46,302

VANADIUM	Tons ('ooo)	Grade (% V ₂ O ₅)	Lbs. V ₂ O ₅ ('000)	Tons ('000)	Grade (% V ₂ O ₅)	Lbs. V ₂ O ₅ ('000)	Tons ('000)	Grade (% V₂O₅)	Lbs. V ₂ O ₅ ('000)
La Sal Complex Other	1,010 240	0.97% 1.32%	19,596 6,350	132 198	o.73% o.96%	1,930 3,816	185 447	0.51% 0.74%	1,902 6,600
						-			
COPPER	Tons ('ooo)	Grade (% Cu)	Lbs. Cu ('000)	Tons ('ooo)	Grade (% Cu)	Lbs. Cu (' 000)	Tons ('ooo)	Grade (% Cu)	Lbs. Cu ('000)
Pinyon Plain	6	9.29%	1,203	94	5.70%	10,736	5	5.90%	570

¹ Sheep Mountain Project's 30m lbs. of Indicated Resources includes Probable Mineral Reserves of 18.4 million lbs. of U₃O₈ contained in 7.4 million tons at a grade of 0.123% U₃O₈ in accordance with NI 43-101.

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.



² Figure includes only joint venture share of mineral resources applicable to Energy Fuels.