

AMERICA'S EMERGING URANUM PRODUCER

Corporate Presentation – July 2021



URANIUM ENERGY CORP | NYSE AMERICAN: UEC | URANIUMENERGY.COM

Disclaimer

Statements contained in this presentation 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 statements. Factors that could cause such differences, without limiting the generality of the following, include: risks inherent in exploration activities; volatility and sensitivity to market prices for uranium; volatility and sensitivity to capital market fluctuations; the impact of exploration competition; the ability to raise funds through private or public equity financings; imprecision in resource and reserve estimates; environmental and safety risks including increased regulatory burdens; 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; failure to obtain necessary permits and approvals from government authorities; weather and other natural phenomena; and other exploration, development, operating, financial market and regulatory risks. Although Uranium Energy Corp 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 release. Uranium Energy Corp. disclaims any intention or obligation to update or revise any forwardlooking statement, whether as a result of new information, future event or otherwise.'

Notice to U.S. Investors: The mineral resources referred to herein have been estimated in accordance with the definition standards on mineral resources of the Canadian Institute of Mining, Metallurgy and Petroleum referred to in NI 43-101 and are not compliant with U.S. Securities and Exchange Commission (the "SEC") Industry Guide 7 guidelines. In addition,

measured mineral resources, indicated mineral resources and inferred mineral resources, while recognized and required by Canadian regulations, are not defined terms under SEC Industry Guide 7 and are normally not permitted to be used in reports and registration statements filed with the SEC. Accordingly, we have not reported them in the United States. Investors are cautioned not to assume that any part or all of the mineral resources in these categories will ever be converted into mineral reserves. These terms have a great amount of uncertainty as to their existence, and great uncertainty as to their economic and legal feasibility. In particular, it should be noted that mineral resources which are not mineral reserves do not have demonstrated economic viability. It cannot be assumed that all or any part of measured mineral resources, indicated mineral resources or inferred mineral resources will ever be upgraded to a higher category. In accordance with Canadian rules, estimates of inferred mineral resources cannot form the basis of feasibility or other economic studies. Investors are cautioned not to assume that any part of the reported measured mineral resources, indicated mineral resources or inferred mineral resources referred to herein are economically or legally mineable.

Exploration Target Disclosure: In the Company's subject technical report all tonnages, grade, and contained pounds of uranium should not be construed to reflect a calculated mineral resource (inferred, indicated, or measured). The potential quantities and grades, as stated in the technical report, are conceptual in nature and there has been insufficient work to date to define a NI 43-101 compliant resource. Furthermore, it is uncertain if additional exploration will result in the discovery of an economic mineral resource on the project.



Production ready, licensed, low-cost In-Situ Recovery (ISR) mining in Texas and Wyoming

Largest resource base of fully permitted ISR projects of any U.S. based producer

Newly established U.S. warehoused inventory of 2.3 M lbs. U_30_8

Strong balance sheet with over \$123 million in cash, equity and physical holdings

Developing the newest and largest ISR production-area in the U.S. at Burke Hollow in South Texas



Leading Pure Play, American Uranium Producer

UEC'S HOBSON PLANT -TEXAS HUB & SPOKE OPERATIONS

Nuclear Power is Critical to U.S. Energy

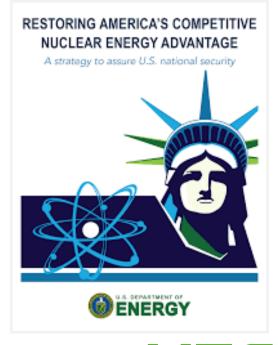
Bi-Partisan Support – First Time in 48 years Democratic Party Supports Nuclear Energy

The United States has set a goal to reach 100 percent carbon pollution-free electricity by 2035 – Nuclear Energy – "Absolutely Essential" (US Energy Secretary Jennifer Granholm)

2nd Largest Source of Electricity – Largest Source of Carbon-Free Power Generation

No U.S. Uranium Production Despite Operating the World's Largest Nuclear Reactor Fleet

Strategic Uranium Reserve – \$1.5 Billion Program Over 10 Years for Domestic Uranium and Conversion (\$75 Million in Appropriations for Fiscal 2021)





Uranium Spot Price is around \$32/lb. July 1, 2021 80% Increase Over November 2016 Low (\$17.75/lb)



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Diversified Asset Portfolio Low-Cost ISR & Production Ready

	M lbs. Measured & Indicated O				Canada - Athaba	Canada - Athabasca Basin			
8M lbs. M	Meası	ired	& Indic	cated O	Project Name	Stage	Resou M&I	rces (M lbs. Inferred	
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	g Plant - Pro		Capacity		Alto Paraná 4.94 Billion Tons Grad	ing 7.41% TiO2	2 and 23.6%	6 Fe2O3	
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of 2M Ibs./year Texas Hub & Spo l Project Name	ke ISR Por Stage	tfolio Resour M&I	rces (M lbs.) Inferred	Uranium Resources Uranium Inventory	4.94 Billion Tons Grad		um & Vana	idium) rces (M lbs	
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Please refer to a detailed breakdown of NI 43-101 resources and disclaimer in this presentation

U.S. Physical Uranium Initiative

Purchasing drummed uranium at prevailing spot prices below most global industry mining costs:

Bolsters UEC
 balance sheet
 as uranium
 prices appreciate

- Provides strategic inventory to support future marketing and production efforts and accelerate cashflows
- Increases the availability of our Texas and Wyoming production capacity for emerging U.S. origin specific opportunities

UEC's physical uranium initiative includes more than 2.3M lbs of U.S. warehoused uranium with deliveries in March 2021 into June 2023 at ~\$30/lb U3O8

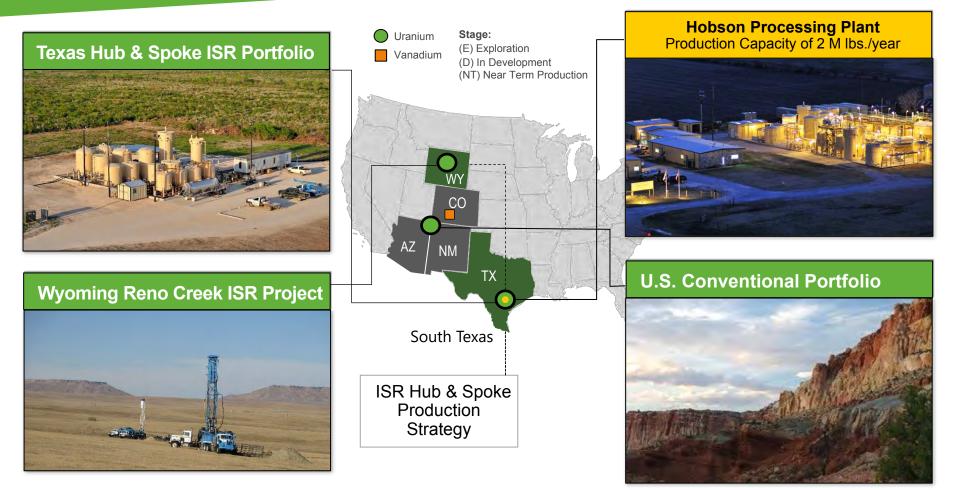




See the Company's news release dated April 9, 2021

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U.S. Infrastructure, Resources and Permits



Please refer to technical reports on SEDAR and Company's website for a detailed breakdown of NI 43-101 resources and disclaimer.



UEC At a Glance

Cash, Equity and Inventory Holdings ^(1,2,3)	~\$123.4 million			
Share Structure	233.2 M Outstanding		12.6 M Options & Stock Awards ⁽³⁾	251.2M Fully Diluted ⁽¹⁾
Recent Activity	\$2.64 As of July 1, 2021	6,559,849 Avg. Daily ∖	/ol. (3-mo)	
Market Cap	\$616 M As of July 1, 2021	\$10 M ⁽⁴⁾ Debt		
Top Shareholders	UEC Team, Blackrock, Var CEF Holdings, Sprott, KCF	• ·		orthern Trust, UBS,
ANALYST COVERAGE	Heiko Ihle, H.C. Wainwright & Katie Lachapelle, Canaccord Mitch Vanderydt, Eight Capita	Genuity	Colin Healey , Haywood Se Joseph Reagor , ROTH Ca	

- ⁽¹⁾ As of April 30, 2021, our most recent financial statements date
- (2) Equity holdings include 14M shares of Uranium Royalty Corp (UROY) having a trading price of US\$3.52 at closing on Apr 30, 2021
- ⁽³⁾ As of April 30, 2021, Inventory holdings include 900,000 lbs delivered U3O8, which is part of the 2.5M lbs. physical uranium initiative
- with multiple deliveries between March 2021 to December 2022
- $^{\rm (4)}$ \$22.7M cash to be received should all warrants and options be exercised
- ⁽⁵⁾ In November 2020 and March 2021, UEC made voluntary principal repayments totaling \$10M, reducing the total principal outstanding to \$10M



Our Team



Amir Adnani President, CEO, Director

An entrepreneur, founding CEO of UEC, founder and Chairman of GoldMining Inc., with extensive experience building natural resource companies.



Robert Underdown

VP of Production

Has held senior operational positions at ISR uranium mines in Texas for over 35 years.



Spencer Abraham Chairman, Board of Directors

Served as a U.S. Senator from 1995 to 2001, as Secretary of Energy from 2001 to 2005 and previously as non-executive Chairman of Areva's U.S. board.



Clyde Yancey

VP of Exploration

Over 35 years of experience in uranium exploration in North and South America.



Scott Melbye

Executive Vice President

36 years of experience in senior roles with uranium majors, Cameco, Uranium One, and Kazatomprom. President of Uranium Producers of America and former Chair of the World Nuclear Fuel Market.

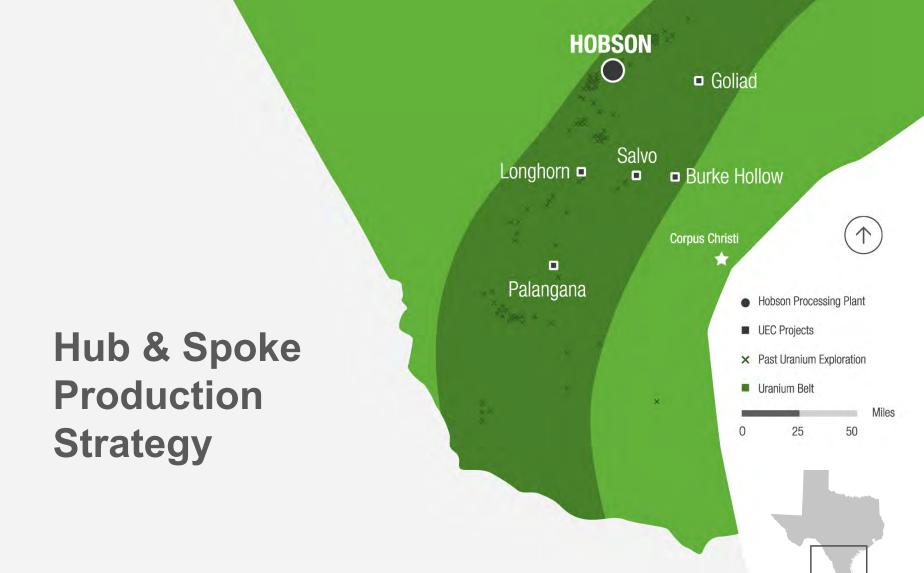


Andy Kurrus

VP of Resource Development

Over 30 years experience with uranium exploration in the United States.







South Texas

Hobson is fully licensed and permitted.



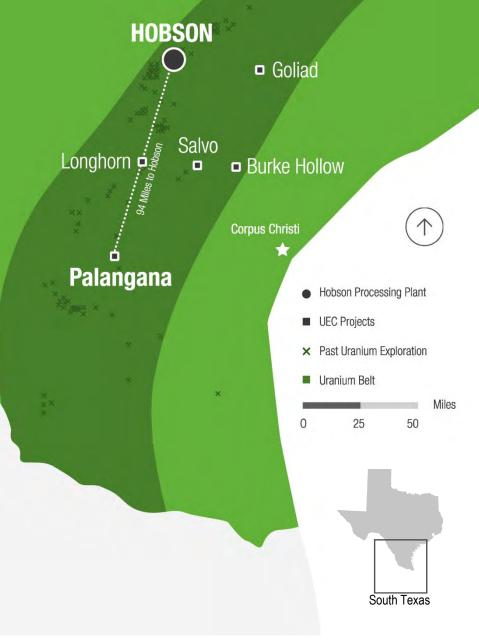
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The Processing Plant has a 2M lbs. / year physical capacity



Palangana ISR Mine First Producing Mine **Proof of Concept**

\$10M Initial CAPEX	6 months construction timeline			
Production Ready	 Low cash-cost of \$21.77/lb during operation Fully permitted including expanded mine permit Received 10-year renewal permits in 2019 			
Similar Costs for Future Projects	 The major permits for production have been issued for Goliad and Burke Hollow 			





In-Situ Recovery (ISR) Technology

Low Cost & Environmentally Friendly

Palangana Production Area 1 (PA-1)

Palangana lon Exchange Facility





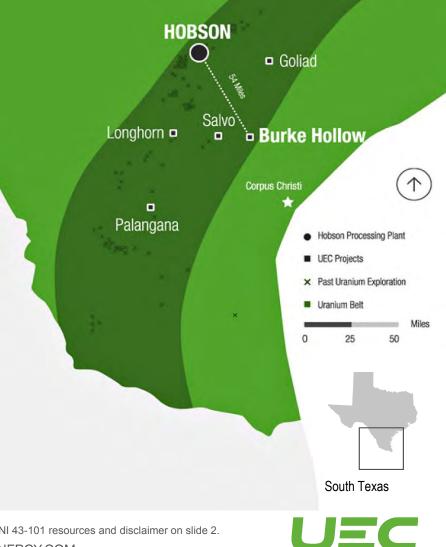
Resin Hauling Truck And Trailer



Burke Hollow ISR Project

- Discovery of six trends since 2012
- 7.09M lbs. in 4.06Mt grading 0.088% U₃0₈
- Leach amenability testing indicates recovery greater than 90%
- ~20,000 acres located ~50 miles from Hobson Processing Plant
- 50% of the property unexplored





See news releases dated Jan 26 and April 14, 2021. Refer to a detailed breakdown of NI 43-101 resources and disclaimer on slide 2.

Burke Hollow ISR Project

Advancing Towards Uranium Extraction

The following final permits have been issued:

- Mine Production Area
- Two Class I disposal wells
- ✓ Aquifer Exemption
- Radioactive Materials License



See news releases dated Jan 26 and April 14, 2021. Refer to a detailed breakdown of NI 43-101 resources and disclaimer on slide 2.

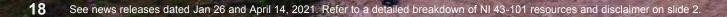


Burke Hollow ISR Project, South Texas

The Newest & Largest ISR Wellfield Being Developed in the U.S.

2021 Production Area Development

- Plan to complete all exterior and interior wells, including installation of ~45 additional monitor wells
- Permitting activities to include sampling and pumping tests in anticipation of commencing production activities



Gillette **Buffalo Reno Creek** 1-90 **ISR** Project Irigaray Uranium One The largest permitted, **North Butte** Cameco **Christensen Ranch** pre-construction **RENO CREEK,** UEC Uranium One ISR uranium project Moore Ranch in the U.S. Uranium One Strategic Location within the Heart of the Powder River Basin, Wyoming **Smith Ranch** Highland Cameco Cameco Casper Received a modified Permit to Construct in 2019, allowing the 1-25 Processing Plant construction of the Central **Processing Plant (CPP) and ISR** Active ISR Operation wellfields Wyoming, USA Fully Permitted

Miles

50

25

Reno Creek ISR Project Pre-Feasibility Study Underway



M&I Resource 26M lbs. of U3O8 grading 0.041% within 32Mt*

Inferred Resource 1.49M lbs. of U3O8 grading 0.039% within 1.92Mt*

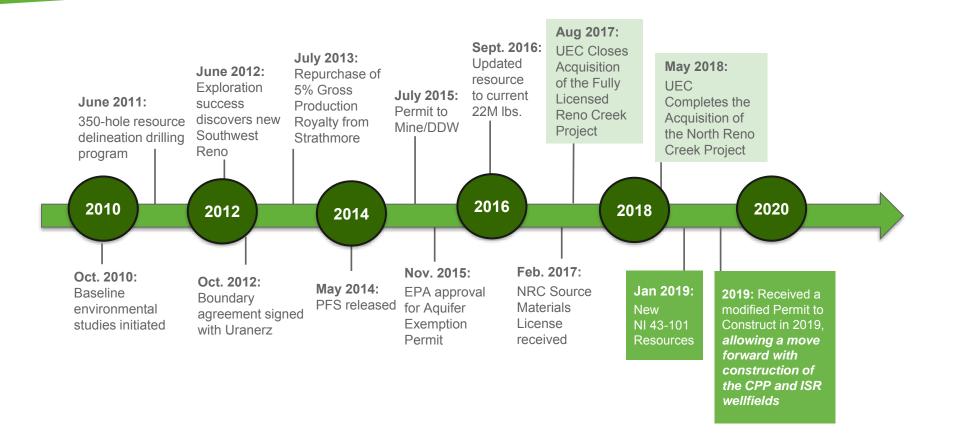
First time since 1980 that the major mineralized trends have been consolidated

Considerable ISR exploration and expansion potential

Production permits in place



Reno Creek: Project Timeline



* See news release dated January 15, 2019. Please refer to a detailed breakdown of NI 43-101 resources and see disclaimer on slide 2.



Anderson Project - Arizona

A Large U.S. Resource	 NI 43-101 compliant resource*: Indicated Resource: 29.5Mt, 17M lbs. avg. grade of 0.029% Inferred Resource: 14.3Mt, 12M lbs. with avg. grade of 0.046%
9,852 Acres	Project located ~75 miles northwest of Phoenix, AZ
History	Between 1955-1958 with ~\$40M spent by previous operators, including Urangesellschaft
Extensive Work	Feasibility studies, milling studies, and hydrological reports previously completed by third parties

*NI 43-101 Technical Report completed and available on SEDAR and see disclaimer on slide 2





Slick Rock Project - Colorado

Technical Report	 NI 43-101 Compliant Resource*: Inferred Resource: 2.5Mt, 11.6M lbs. avg. grade of 0.228% Inferred Resource: 2.5Mt, 69.6M lbs. vanadium with avg. grade of 1.37%
Low	 \$21M initial CAPEX with an annual production
CAPEX	of 438,000 pounds U3O8 + vanadium inferred
Vanadium	 Resource of 2.549Mt grading 1.37% V2O5 and
Resource	containing 69.6M lbs.
Nearby Infrastructure	Projected sale of mined product to the White Mesa mill in nearby Blanding, UT

*NI 43-101 Technical Report completed and available on SEDAR and see the Company's disclaimer





ISR District Opportunity in Paraguay

Similar geology as South Texas and leveraging ~\$50M of historic exploration work by Anschutz and Cameco, including new work completed by UEC.

Project	Historic Operator	Stage	Resource (M Ibs)
Yuty	Cue Resources / Cameco	Exploration / Development	8.9M lbs. in 7.8Mt grading 0.052% U3O8 M&I and 2.2M lbs. in 2.1Mt grading 0.047% U3O8 Inferred*
Project	Historic Operator	Stage	Exploration Target (M lbs)
Oviedo	Anschutz Corp	Exploration	23 - 56M lbs. in 28.9 - 53.8Mt grading 0.04% to 0.052% U3O8*

*NI 43-101 Technical Report completed and available on SEDAR and see Company's disclaimer



Alto Paraná Titanium Project

Project Overview

- One of the highest-grade and largest-known Ferro-Titanium deposits in the world
- NI 43-101 compliant resource with a mineral exploration claim of 70,498 hectares
- The PEA's first phase was completed in early 2020 with conclusion of a 49-hole drilling & sampling campaign
- Follow-up activities include laboratory analyses and new resource estimation



Cut-Off % % TiO₂ % Fe₂O₃ % Ilmenite calc 6.0 7.41 23.58 13.95

Project History



*NI 43-101 Technical Report completed and available on SEDAR and see disclaimer on slide 2



UEC pilot plant at Alto Parana

Tonnes

Billions

4.94

Thickness

(m)

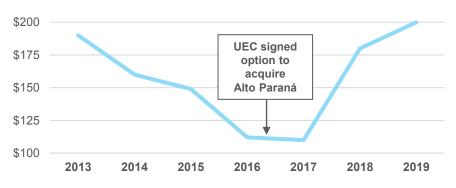
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Titanium Feedstock Market – TiO2 prices hitting 3-year highs

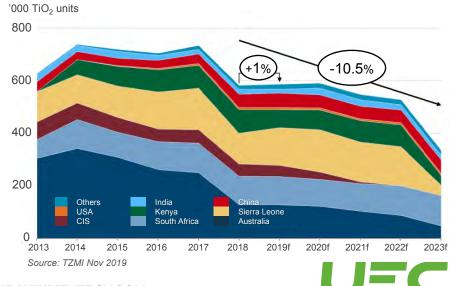
- 90% of TiO2 feedstocks (ilmenite) used for pigment manufacturing
- Strong price recovery for ilmenite since 2017, with positive outlook, driven by:
 - Strong pigment demand & balanced inventory levels
 - Environmental and yield advantages of high-grade feedstock
 - High-grade feedstock supply deficit

Good fit for Alto Parana – capable of producing high-grade TiO2 feedstock for both sulfate or chloride slag production

Price of TiO2 Feedstock - ilmenite (USD per tonne)



Significant Supply Deficit – High Grade TiO2 Feedstocks



Investment Summary

- Strong balance sheet with ~\$123 million in cash, equity and physical holdings upon closing of recent offering
- Fully permitted and state of the art infrastructure advantage with Hobson Processing Plant
- Pipeline of fully licensed, low-cost ISR projects - potential production profile of 4M lbs./year in Texas and Wyoming
- Physical uranium initiative includes 2.3M lbs. of U.S. warehoused uranium
- Advancing production-readiness at Reno Creek and Burke Hollow ISR projects
- Only U.S. mined uranium can supply the Department of Energy \$1.5B Uranium Reserve -\$75M in FY2021 Appropriations

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Nuclear Energy Clean, Safe, Reliable & Economic

Perfect Compliment to Renewable Wind and Solar

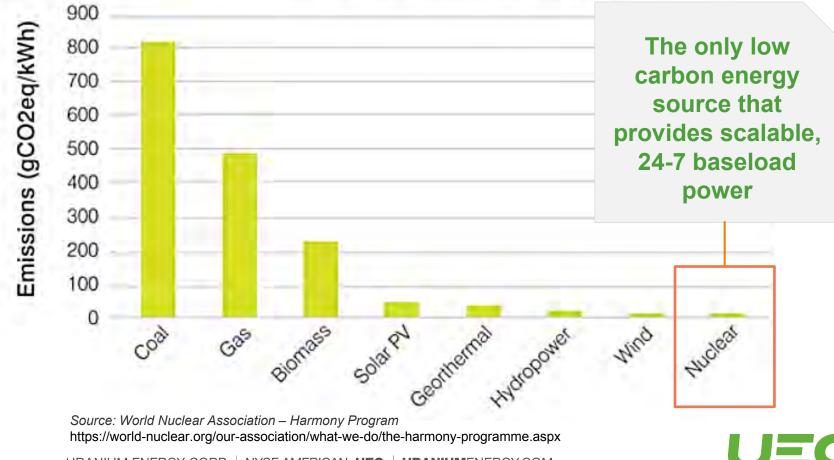
Saves Lives and Improves Quality of Life





Nuclear Power = Carbon Free - Clean Energy 55% of America's Clean Energy

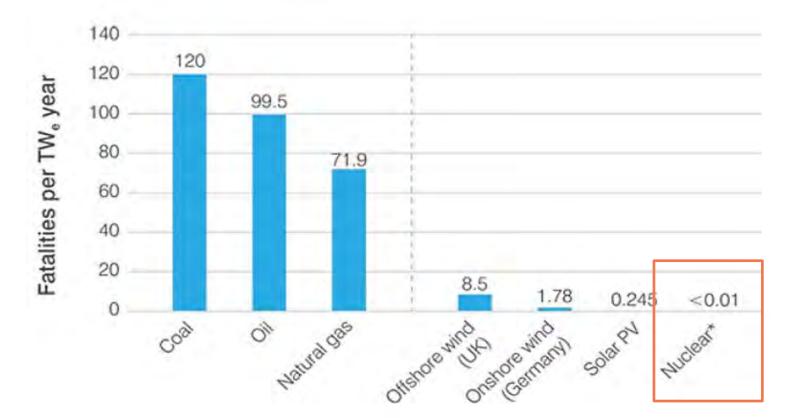
Life-cycle carbon emissions from selected electricity supply technologies



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Nuclear Power = Safest Form of Electricity Generation

Nuclear has the lowest energy accident fatalities for OECD countries



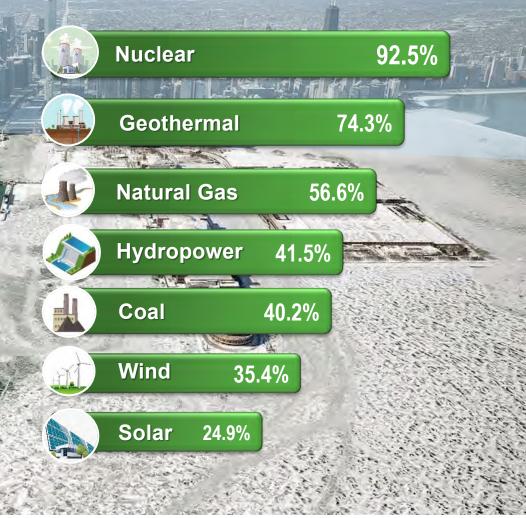
Source: World Nuclear Association – Harmony Program https://world-nuclear.org/our-association/what-we-do/the-harmony-programme.aspx URANIUM ENERGY CORP | NYSE AMERICAN: **UEC** | **URANIUM**ENERGY.COM

UEC

TradeTech

2021 Polar Vortex – Nuclear Reliability at 95%

Capacity Factor by Energy Source in 2020

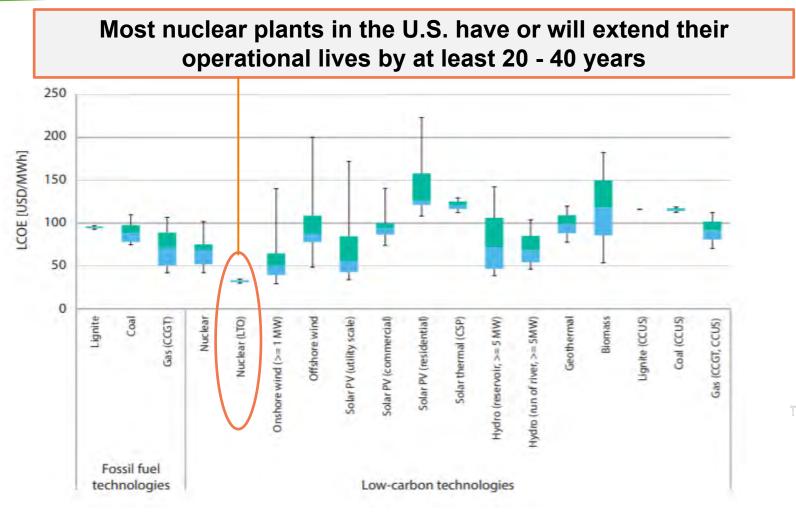


Source: U.S. Energy Information Administration





Nuclear Power = Lowest Levelized Cost of Electricity For Extended Life Plants vs any Other Source



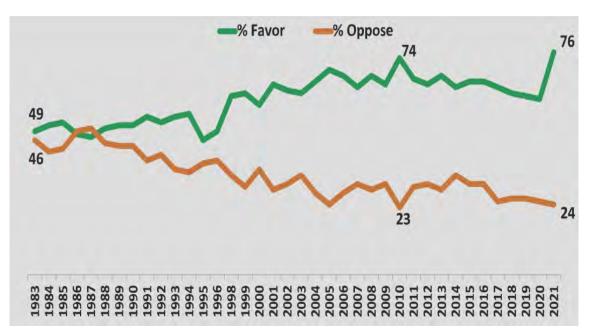
Projected Costs of Generating Electricity, 2020 Edition, International Energy Agency and Nuclear Energy Agency

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Support for Nuclear Energy is Strong and Increasing

Favorability to Nuclear Energy 1983-2021

Overall, do you strongly favor, somewhat favor, somewhat oppose the use of nuclear energy as one of the wats to provide electricity in the United States?



ECONOMIC BENEFITS







Source: NuclearNewswire – ANS; Nuclearmatters.com/jobs https://www.ans.org/news/article-2974/support-for-nuclear-energy-grows-with-climate-change-concerns/ URANIUM ENERGY CORP | NYSE AMERICAN: **UEC** | **URANIUM**ENERGY.COM



Robust Nuclear Power Growth

444

Operable Reactors Worldwide

51

Units Under Construction

55

New Reactors Connected since 2012



CAGR Nuclear Growth Expected (2020-2027)¹

CHINA announced that it is likely to triple nuclear power capacity by 2030

INDIA plans for 21 new nuclear reactors by 2031

U.A.E. completed 1 reactor; 3 units under construction, 4 more reactors under consideration

U.K. upgrading nuclear fleet to new advanced reactors

RUSSIA is building 36 reactors in China, India, Bangladesh, Turkey, Egypt, Iran, Finland, Belarus, Slovakia, Armenia, Uzbekistan and Hungary

JAPAN 33 operable reactors, Energy Plan targeting 20-22% nuclear power, nuclear deemed essential to achieve net-zero target by 2050

U.S. is completing two new AP-1000 reactors in Georgia and has maintained a 20% market share for 30 years with power uprates and efficiency = to 32 new reactors as electricity demand grew over 36% from 1989-2019 – A Stealth Growth Story!







Source: IAEA PRIS June 28, 2021; ⁽¹⁾ Global Nuclear Power Industry Sep 2020; NEI Dec 2020, March 2021 URANIUM ENERGY CORP | NYSE AMERICAN: **UEC** | **URANIUM**ENERGY.COM

Small Modular Reactor (SMR) An Important Emerging Market

Small Modular Reactors (SMR's)

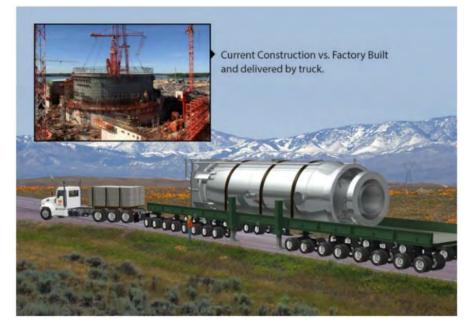
Scalable, factory-built, smaller footprint, flexible operations, manageable investments, cost competitive, unique applications

Advanced Reactors

Leverages pros/cons of previous designs, takes advantage of technological and material advances, fuel cycle advances, higher efficiencies

New Applications

Hydrogen production, clean water through de-salinization, transportation, waste solutions, medicine





Uranium Supply Removed from the Market Restricted Primary Supply 2016 – 2035

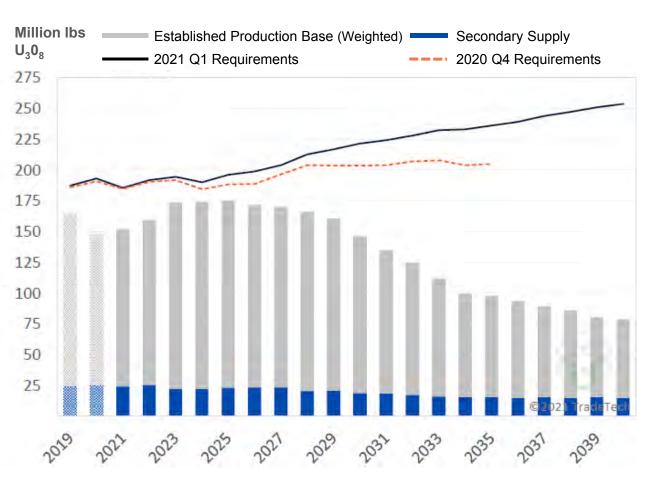
% Sequestered vs 2016 Restricted Primary Supply (Mlbs U₃O₈) 900% Sequestered (Aggregated) -10 Suspended (C&M) **COVID-19** Impacted -30 Operations 600% **Reduced Operations** ©2021 TradeTech (2016 - 2022)-50 May-31 **IGPI™** Depleted (Aggregated) -70 *Assumes annual exercising of 300% Yellow Cake's Framework Estimated 51 Million lbs U₃O₈ Agreement with Kazatomprom; sequestered material by does not account for additional -90 purchasing from UPC, URC, Denison 2026*; ~400% increase over Mines, UEC, Boss Energy, enCore 2016 levels Energy or other physical funds; does -110 0% not account for sequestered pounds sold into uranium spot or term markets between 2021-2026.

Sequestered, Suspended, Covid, Operational & Depletion Reductions

Source: TradeTech, May 31, 2021 URANIUM ENERGY CORP | NYSE AMERICAN: UEC | URANIUMENERGY.COM 36

Global Supply & Demand Existing Primary Production + Secondary Market Supply

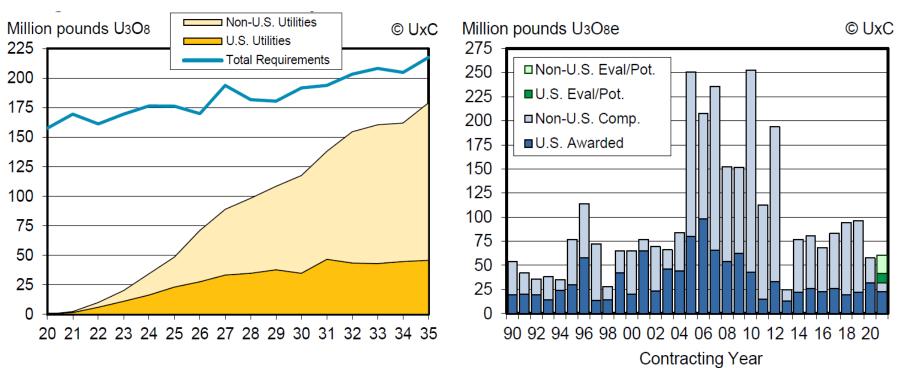
- Inventory Overhang Drawing Down
- Uranium Price Too Low to Stimulate New Production
- Within the Permitting and Development Lead Times to Bring On New Mines



Source: TradeTech June 2021 Uranium Market Study Issue 1 – Forward Availability Model 1

Utility Procurement Cycle: Old Contracts Rolling Off...New Contracts Need to be Signed

1.4 Billion Pounds of Contracting needed by 2035!



Utility Uncommitted Demand

Source: UxC Market Outlook Q2 2021

Historic Long-Term Contracting



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Bottom Line - Positive Market Outlook

- Demand Growth 55 reactors added to grid in past 8 years; 52 reactors under construction – nuclear generation has recovered to pre-Fukushima levels
- Strategic Interest in Physical Inventory Producers, Developers, Financial buyers
- The Department of Energy's historic announcement to purchase 17-19M lbs. U.S. mined U3O8 starting within 2021 (\$75M in Appropriations have been approved for fiscal 2021)
- Strong Bipartisan Support for Nuclear Energy, Included in U.S. Energy Carbon Free Goals, Clean Energy Standard, American Jobs Plan
- ✓ **Utility Procurement Cycle Looming** "New" fundamentals have not been tested
- Underinvestment and Supply Cutbacks significant primary supply deficit and mine depletions are increasing
- Lead Time to Advance Large New Mines can be 10 years or longer. Industry incentive price of \$60/lb.
- Accelerated Market Re-Balancing Growing primary production shortfall exists.
 COVID removed about 20M pounds from 2020 production



Combined Resource Summary⁽¹⁾



Projects		Measured & Ind	icated	Inferred			
Hub & Spoke ISR Portfolio	Tons ('000)	Grade		Tons	Grade	Lbs U ₃ O ₈	
Texas ISR	('000)	(% U ₃ O ₈)	('000)	('000)	(% U ₃ O ₈)	('000')	
Palangana	393	0.14	1,057	328	0.18	1,154	
Burke Hollow	-	-	-	4,064	0.088	7,093	
Goliad	3,790	0.05	5,475	1,547	0.05	1,501	
Salvo	-	-	-	1,200	0.08	2,839	
Longhorn		Developmental with historical resources					
Texas ISR Total	4,183	0.095	6,532	7,139	0.10	12,587	
Wyoming ISR							
Reno Creek	32,000	0.041	26,000	1,920	0.039	1,490	
Wyoming ISR Total	32,000	0.041	26,000	1,920	0.045	1,490	
U.S. Conventional Portfolio	Tons	Grade		Tons	Grade		
Anderson, AZ	([.] 000) 29,532	(% U ₃ O ₈) 0.03*	([.] 000) 17,000	(^{'000}) 14,295	(% U ₃ O ₈) 0.04*	('000) 12,000	
Workman Creek, AZ		-	-	3,222	0.09	5,542	
Slick Rock, CO	_	-	_	2,549	0.228	11,600	
Los Cutaros, AZ			Developmenta	I with historical resource		11,000	
C de Baca, NM			,	al with historical resource			
Dalton Pass, NM			Developmenta	l with historical resource	s		
Long Park, CO		Developmental with historical resources					
U.S. Conventional Total	29,532	0.03*	17,000	20,066	0.12	29,142	
Canadian Conventional Portfolio							
Diabase, SK		Developmental with historical resources					
Paraguay ISR							
Yuty	8,621	0.05*	8,914	2,353	0.05	2,226	
Coronel Oviedo		Developmental with historical resources					
Paraguay ISR Total	8,621	0.05*	8,914	2,353	0.05	2,226	
Company Total		58,446 ('00	00 lbs. U3O8)	45	,445 ('000 lbs. U3	308)	

(1) Cautionary Note to US 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 and do not constitute SEC Industry Guide 7 compliant reserves. (*) Weighted averages



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