

LARGEST & DIVERSIFIED NORTH AMERICAN FOCUSED URANIUM COMPANY

Corporate Presentation – September 2022



Disclaimer

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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 forward-looking 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 also 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.

The U1A Acquisition portfolio contains (i) 37.6 million pounds U3O8 in Measured and Indicated Resources and 4.3 million pounds U3O8 in Inferred Resources estimated in compliance with CIM Definition Standards on Mineral Resources and Mineral Reserves and National Instrument 43-101 Standards of Disclosure for Mineral Projects adopted by Canadian Securities Administrators ("NI 43- 101") through independent technical reports produced for U1A. As a U.S. domestic and domiciled company, UEC is now reporting all mineral resources in accordance with Item 1302 of Regulation S-K ("S-K 1300"); A Technical Resource Summary ("TRS") was prepared under S-K 1300 and was filed on April 4, 2022 with the SEC through EDGAR on Form 8-K and is also available on SEDAR as a "Material Document" filed on April 4, 2022. The TRS converts all previously reported Historical Resource estimates for the U1A properties to S-K 1300 compliant resources. The mineral resource estimates set forth in this TRS have not previously been reported under the S-K 1300 format, except for the Reno Creek Project (See Company release dated February 9, 2022). The TRS was prepared on behalf of the Company by WWC Engineering, of Sheridan, Wyoming.

The technical information in this presentation has been prepared in accordance with the Canadian regulatory requirements set out in NI 43-101 and was reviewed by Dayton Lewis, P.G., Manager of Resource Development Wyoming for the Company, a Qualified Person under NI 43- 101.

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.

UEC

America's Leading Uranium Mining Company

Fastest growing, 100% unhedged pure play uranium companylisted on the NYSE American

Production ready, low-cost ISR mining - largest resource base of fully permitted ISR projects of any U.S. based producer

Production profile of 6.5 M lbs. U_3O_8 / yr based on permitted and installed capacity of Wyoming and South Texas hub-and-spoke operations

Strong Balance sheet with \$182 M of cash and liquid assets, no debt⁽¹⁾

Physical uranium portfolio of 5 M lbs. U.S. warehoused U_3O_8 at approx. \$38/lb average cost

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UEC

(1) The Company's press release dated June 13, 2022, and pending return of certain surety amounts related to the U1 Americas transaction URANIUM ENERGY CORP | NYSE AMERICAN: UEC | URANIUMENERGY.COM

Nuclear is an ESG Investment

The European Union backs nuclear as an ESG investment, recognizing the instrumental role it will play in the energy transition

As of July 6, 2022, the EU Parliament voted to include nuclear in the EU's taxonomy for sustainable finance



Source: Reuters.com URANIUM ENERGY CORP | NYSE AMERICAN: UEC | URANIUMENERGY.COM

Investing in UEC Supports ESG Goals and a Low Carbon Future

Nuclear is the largest carbon-free electricity source in the U.S., fueling 20% of total electricity produced today¹

This is equivalent to removing the emissions of 100M gas-powered vehicles per year²

Leading research institutions have found that the most affordable and efficient net-zero grid requires nuclear energy³





The Russian Invasion Of Ukraine – A Fundamental Change to the Nuclear Fuel Markets



"Senators Joe Manchin (D-WV) and Jim Risch (R-ID), introduced the International Nuclear Energy Act of 2022 - Creates the U.S. Nuclear Fuels Security Initiative to reduce and eliminate reliance on Chinese and Russian nuclear fuels – April 8, 2022



"...with a widespread trend away from Russian products and services, many nuclear utilities are exploring alternative supply options... This trend is foreshadowing a potential bifurcation in the nuclear fuel markets." – March 2022



Senator Barrasso Leads Bill to Ban Russian Uranium Imports – March 17, 2022



"Russia's unprovoked war on Ukraine has fundamentally shifted the global nuclear fuel markets." – March 2022



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Congressman Pete Stauber (R-MN), joined by Congressmen Adrian Smith (R-NE), Vicente Gonzalez (D-TX) and Henry Cuellar (D-TX), introduced legislation to ban imports of uranium from Russia – March 25, 2022

BARRON'S

Uranium Prices Are Through the Roof as the War Shifts Thinking on Nuclear Power – March 17, 2022



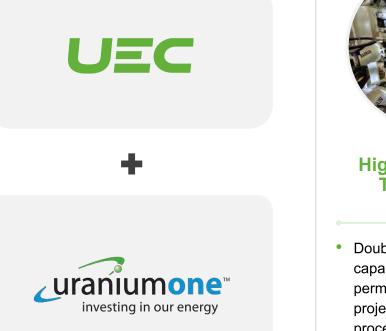
Fundamentals Favor Significant Price Appreciation – Prices still Well Below Previous Highs





UEC Acquires Uranium One Americas for \$112 Million Cash

Transformative Acquisition **Creating America's Leading Uranium Mining Company**



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Highly Accretive Transaction

- Doubling production capacity by total number of permitted U.S. ISR projects, resources and processing infrastructure
- Anticipated capital ٠ expenditures savings



Positioned to lead resurgence of U.S. uranium production

- Resulting Wyoming Hub & Spoke platform forms largest S-K 1300 uranium resource reported in the U.S.
- Production re-start platform with fully permitted projects



Proven Production with Significant Past Investment

- 6 million lbs of historic **ISR** production
- Over \$400 million of capital deployed by U1A since 2009 on the Wyoming projects



Resource **Expansion Potential**

- Dominant land package
- Adds ~100.000 acres across Wyoming's prolific Power River and Great Divide Basins

*See news release dated Apr 5, 2022. (1) Refer to a detailed breakdown of NI 43-101 and S-K 1300 resources and disclaimer on slide 2. URANIUM ENERGY CORP | NYSE AMERICAN: UEC | URANIUMENERGY.COM



Doubling of UEC's Underlying Resources

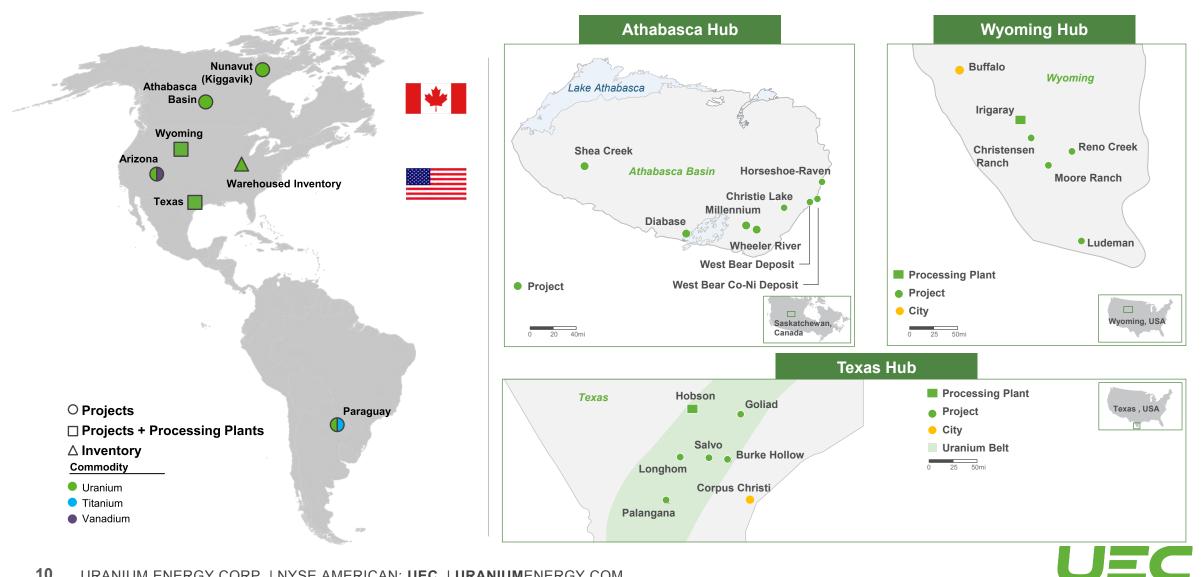
Adds significant uranium resources in a prospective and politically stable mining jurisdiction

	UEC	UNEARTHING ENERGY METALS	Pro Forma	
Key Locations	Texas, Wyoming	Athabasca Basin	Texas, Wyoming, Athabasca Basin	Adds breadth to diverse portfolio of assets
Key Projects	Reno Creek, Anderson, Irigaray & Christensen Ranch	Christie Lake, Horseshoe- Raven, Millennium, Wheeler River, Shea Creek, Kiggavik	Reno Creek, Christie Lake, Horseshoe-Raven, Anderson, Millennium, Wheeler River, Irigaray & Christensen Ranch, Kiggavik, Shea Creek	in politically stable mining jurisdiction
Attributable M&I (inclusive) U ₃ O ₈ Resources	94 M lbs.1	71 M lbs.(current) ² 40 M lbs. (historic) ²	165 M lbs.(current) ^{2,3} 40 M lbs. (historic) ^{2,3}	More than doubles existing uranium
Attributable Inferred U ₃ O ₈ Resources	51 M lbs.1	31 M lbs.(current) ² 5 M lbs. (historic) ²	82 M lbs.(current) ^{2,3} 5 M lbs. (historic) ^{2,3}	resources on a pro forma basis ^{1,2,3}

Note: Excludes UEC's Alto Paraná titanium-vanadium asset, and UEX's West Bear cobalt-nickel deposit (1) Prior to asset swap agreement with Anfield Energy; see press release dated June 8, 2022 (2) Refer to appendix for detailed breakdown of UEX's current resources reported under NI 43-101 and historical resources (3) Subject to the completion of technical reports by UEC after closing

U.S. and Canada Focused Asset Portfolio

Establishes presence across multiple resource-stage projects in Canada's Athabasca Basin & Nunavut



Strong Joint-Venture Partnerships

Established uranium miners as operators allows UEC to focus on growth



Millennium – 69.9% Owner and Operator

- Millennium is a Feasibility Study stage project located between Cameco's McArthur River Mine and Key Lake Mill in the Athabasca Basin (Saskatchewan, Canada)
- Cameco's next global development project, CNSC licensing paused
- Hosts 75.9 M lbs. U₃O₈ of historical Indicated and 29.0 M lbs. U₃O₈ of historical Inferred resource (100% basis)¹



Shea Creek

- Currently one of the largest undeveloped deposits in the Athabasca Basin
- Hosts 67.6 M lbs. U₃O₈ of Indicated and 28.1 M lbs. U₃O₈ of Inferred resources (100% basis)²

Kiggavik

- Kiggavik is a Feasibility Study stage project located in Nunavut, Canada
- Hosts 127.3 M lbs. U₃O₈ of historical Indicated and 5.4 M lbs. U₃O₈ of historical Inferred resource (100% basis)³

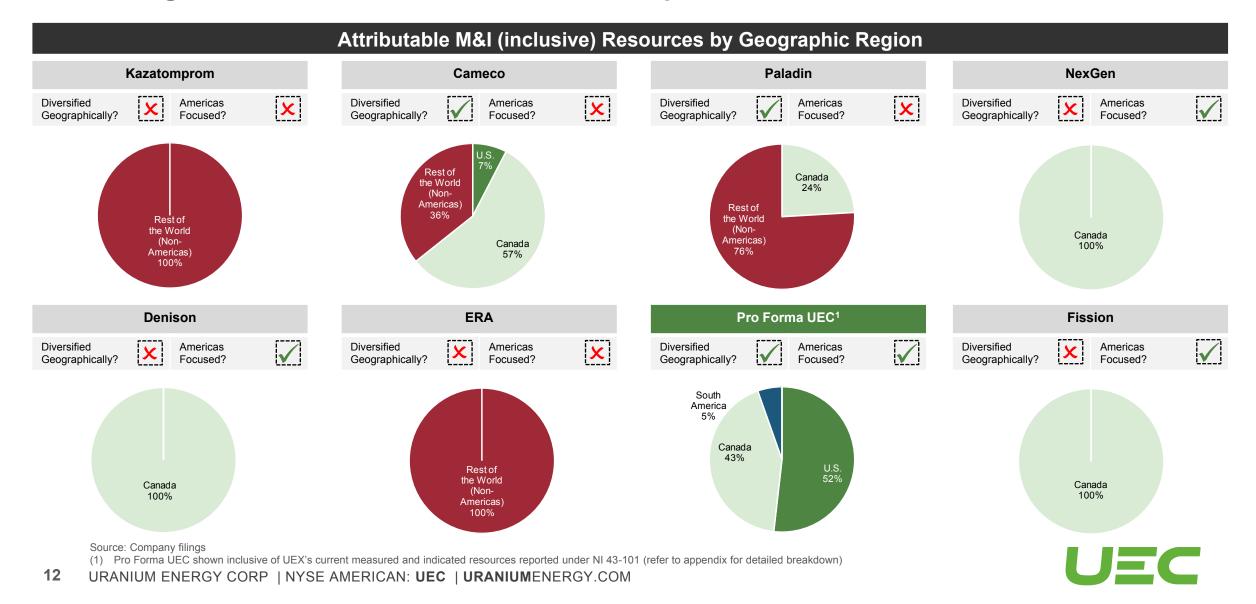
⁽¹⁾ Millennium resources as reported by Cameco on their website at <u>https://www.cameco.com/businesses/uranium-projects/millennium/reserves-resources#measured_and_indicated</u> as of December 31, 2021. The reader is cautioned that neither UEC or UEX are aware whether Cameco's reporting of resources conforms to NI 43-101 and CIM guidelines. These are treated by the Company as historic resource estimates. Cameco has reported that the estimates have been prepared in accordance with the CIM Definitions Standards. There are no other estimates available to UEC or UEX.

⁽²⁾ NI 43-101 Technical Report "2022 Technical Report on the Shea Creek Project, Saskatchewan" with an effective date of January 1, 2022, a copy of which is available under UEX Corporation's profile on SEDAR at <u>www.sedar.com</u>. These resources are reported in accordance with the CIM definition standards adopted by the Canadian Institute of Mining, Metallurgy and Petroleum council on May 19, 2014 (the "CIM Definition Standards")

⁽³⁾ Kiggavik resources as reported by Orano in their 2021 Activities Report available on their website at <a href="https://www.orano.group/docs/default-source/orano-doc/finance/publications-financieres-et-reglementees/2021/orano-annual-activity-report-2021.pdf?sfvrsn=a2e56244_8 converted from tonnes U to pounds U3O8 and from %U to %U3O8. The reader is cautioned that neither UEC or UEX are aware whether Orano's reporting of resources conforms to NI 43-101 and CIM guidelines. These are treated by the UEX and UEC as historic resource estimates. There are no other estimates available to UEC or UEX.

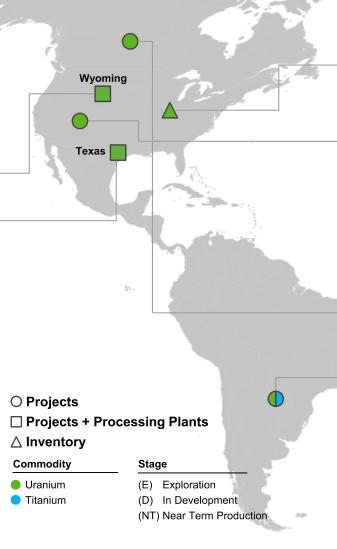
Largest Diversified Americas-Focused Uranium Portfolio

Combining U.S. Production and Canadian Development Assets



Diversified Asset Portfolio -Low-Cost ISR & Production Ready

Processing Plants					
Wyoming Irigaray CPP – 2.5 M lbs./year licensed capacity					
Texas Hobson Plant – Production Capacity of 2 M Ibs./year					
Wyoming Hub and Spoke ISR Portfolio (S-K 1300 compliant)					
Project Name	Stage	Resources (M lbs.)			
	J -	M&I	Inferred		
Allemand-Ross	(E)	0.46	2.49		
Barge	(E)	4.36	0		
Charlie	(NT)	3.10	0.99		
Christensen Ranch (Fully Permitted)	(NT)	9.59	0		
Clarkson Hill	(E)	0	1.11		
Irigaray (Partially Permitted)	(D)	5.89	0.14		
Jab/West Jab	(D)	2.73	1.71		
Ludeman (Fully Permitted)	(NT)	9.71	1.26		
Moore Ranch (Fully Permitted)	(NT)	3.21	0.05		
Nine Mile Lake	(D)	2.50	1.80		
Red Rim	(E)	1.14	1.54		
Reno Creek (Fully Permitted)	(NT)	26.0	1.49		
South Sweetwater	(E)	0.13	0.28		
Total in All Categories		68.82	12.86		
Texas Hub & Spoke ISR Portfolio					
Project Name	Stage	Resources (M lbs.)			
	5.495	M&I	Inferred		
Palangana (Fully Permitted)	(NT)	1.1	1.2		
Goliad (Fully Permitted)	(NT)	5.5	1.5		
Burke Hollow (Fully Permitted)	(NT)	-	7.1		
Salvo	(E)	-	2.8		



Strategic Equity Interest

URANIUM 16% equity stake in Uranium Royalty Corp. ROYALTY CORP

Inventory

5 M lbs. U.S. warehoused U₃O₈ in physical uranium portfolio

U.S. Hardrock Pipeline (Uranium & Vanadium)

Droja at Nama	Stage	Resources (M lbs.)	
Project Name	Stage		Inferred
Anderson	(D)	32.0	0
Workman	(D)	-	5.5

Canada - Athabasca Ba	asin		
Project Name	Stage	Resou M&I	ırces (M lbs.) Inferred
Diabase	(E)	NA	NA
Paraguay ISR Uranium	Portfolio		
Project Name	Stage	Resou M&I	irces (M lbs.) Inferred
Yuty	(D)	8.9	2.2
Oviedo	(E)	Explo	23.56 ration target
Paraguay Titanium Bu	siness		



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(1) See slide 2 for disclaimer and a detailed breakdown of NI 43-101 and S-K 1300 resources

Texas & Wyoming Hub & Spoke Platform *Fully Permitted*





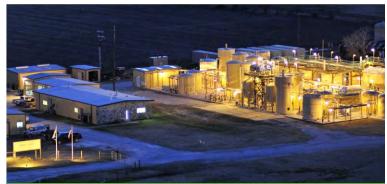
Wyoming Hub & Spoke ISR Portfolio

Irigaray Processing Plant Licensed Production Capacity of 2.5 M lbs./year

7 satellite projects

62 M lbs. M&I and 7 M lbs. Inferred U₃O₈ resources

The largest S-K 1300 uranium resource summary completed and filed to date in the U.S.



Texas Hub & Spoke ISR Portfolio

Hobson Processing Plant Installed Production Capacity of 2 M lbs./year

5 satellite projects

6.5 M lbs. M&I and 12.5 M lbs. Inferred U_3O_8 resources

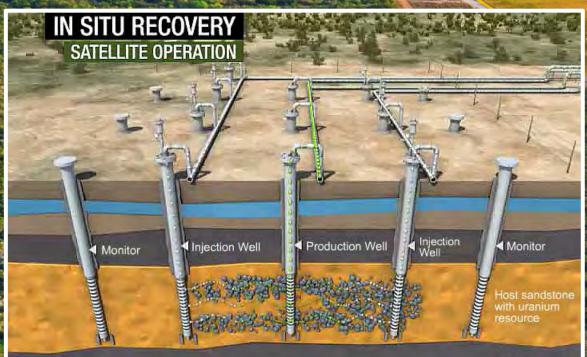
Burke Hollow ISR Project - the newest & largest ISR wellfield being developed in the U.S.



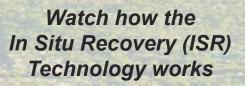
14 URANIUM ENERGY CORP | NYSE AMERICAN: UEC | URANIUMENERGY.COM

Please refer to technical reports on SEDAR and EDGAR, or Company's website, for a detailed breakdown of NI 43-101 and S-K 1300 resources and disclaimer.

In-Situ Recovery (ISR) Overview Low Cost & Environmentally Friendly



 Confining Layer



Click Here



Environmental Social & Governance Program

A Responsible Steward of Our Environment, Protecting Our Employees & Communities Where We Operate

UEC ISR URANIUM SUPPORTS ESG ENERGY GOALS:

- ISR projects have a low-carbon profile, contributes to "net zero" targets
- Uranium fuels safe, clean-air nuclear energy to produce reliable carbon free electricity

UEC ACTIONS:

- Implementing a full ESG program for Company operations, including corporate governance and stakeholder interests
- Combining, existing company social responsibility practices with new ESG initiatives
- Completed first phase of emissions quantification for the Palangana ISR mine and Hobson processing facility
- Evaluating new carbon emission reduction technologies for UEC production facilities





UEC Physical Uranium Portfolio The largest inventory position for a U.S. based uranium company

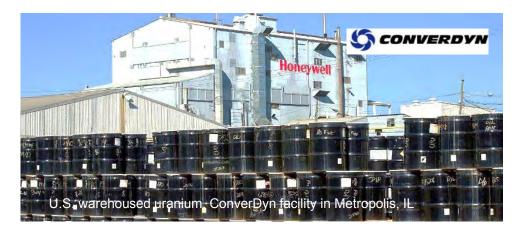
Majority of drummed uranium purchased at spot prices below most producers' mining costs

Bolsters UEC
 balance sheet
 as uranium prices
 appreciate

✓ Provides strategic inventory

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





See the Company's news release dated Apr 20, 2022



UEC At a Glance

Member of the Russell 2000® Index

Cash, Equity and Inventory Holdings ^(1,2,3)	~\$182 million, no debt		
Avg. Daily Vol. (3-mo)	12,377,803	Top Shareholders	UEC Team, Blackrock, Vanguard Group, State Street, Fidelity, Northern Trust, UBS, CEF Holdings, Sprott, KCR Fund, and
Basic Shares Outstanding	286.3 M		Global X Management
Warrants	4.0 M		
Options + Stock Awards	10.4 M		
Fully Diluted ⁽¹⁾	300.7 M		
Recent Activity	\$4.22 As of Sep 1, 2022	Analyst Coverage	Heiko Ihle, H.C. Wainwright & Co. Katie Lachapelle, Canaccord Genuity Puneet Singh, Eight Capital Colin Healey, Haywood Securities Inc. Joseph Reagor, ROTH Capital Partners
Market Cap	\$1.2B As of Sep 1, 2022		

(1) The Company's press release dated June 13, 2022, and pending return of certain surety amounts related to the U1 Americas transaction

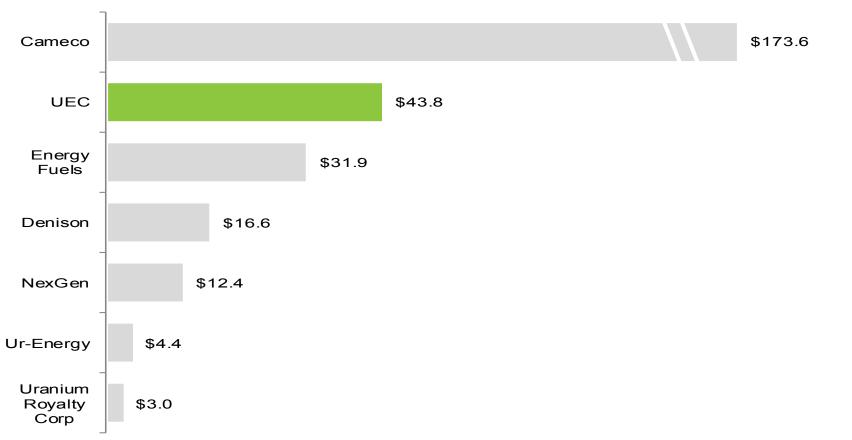
(2) Equity holdings include 15M shares of Uranium Royalty Corp (UROY) having a trading price of US\$2.95 and 96M units of Anfield Energy Inc. having a deemed price of \$0.095 per unit

(3) Inventory holdings include 1.8 M lbs of delivered U3O8, which is part of the contracted 5 M lbs physical uranium at approx \$38/lb avg cost with multiple deliveries between Mar 2021 to Dec 2025



Strengthened Positioning and Liquidity Among Peer Group

Supported by more than \$180 million of cash and liquid assets to advance strengthened portfolio



1 Year Average Daily Traded Value – U.S. Listings (\$ M)⁽⁴⁾

Source: Company filings, FactSet

- (1) The Company's press release dated June 13, 2022, and pending return of certain surety amounts related to the U1 Americas transaction
- (2) Equity holdings include 15M shares of Uranium Royalty Corp (UROY) having a trading price of US\$2.95 and 96M units of Anfield Energy Inc. having a deemed price of \$0.095 per unit
- (3) Inventory holdings include 1.8 M lbs of delivered U3O8, which is part of the contracted 5 M lbs physical uranium at approx \$38/lb avg cost with multiple deliveries between Mar 2021 to Dec 2025
- (4) Based on last 1 year of trading across U.S. listings

(5) Based on last 1 year of trading across all exchanges

840 Years of Combined Experience in the Uranium Industry

Clyde Yancey

VP of Exploration

Over 35 years of experience

in uranium exploration in

North and South America.



Amir Adnani President, CEO, Director

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



Donna Wichers

VP of Wyoming Operations

Former COO and board member of Uranium One Americas. Over 40 years of experience in senior roles with ISR and conventional uranium mines in the U.S.



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.



F. P. "Butch" Powell

VP of Marketing and Sales

More than 30 years' experience in the nuclear fuel industry - also serving as Chair of the Nuclear Energy Institute's Fuel Suppliers Committee.



Scott Melbye Executive Vice President

37 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 U.S.



Robert Underdown VP of Production - Texas

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



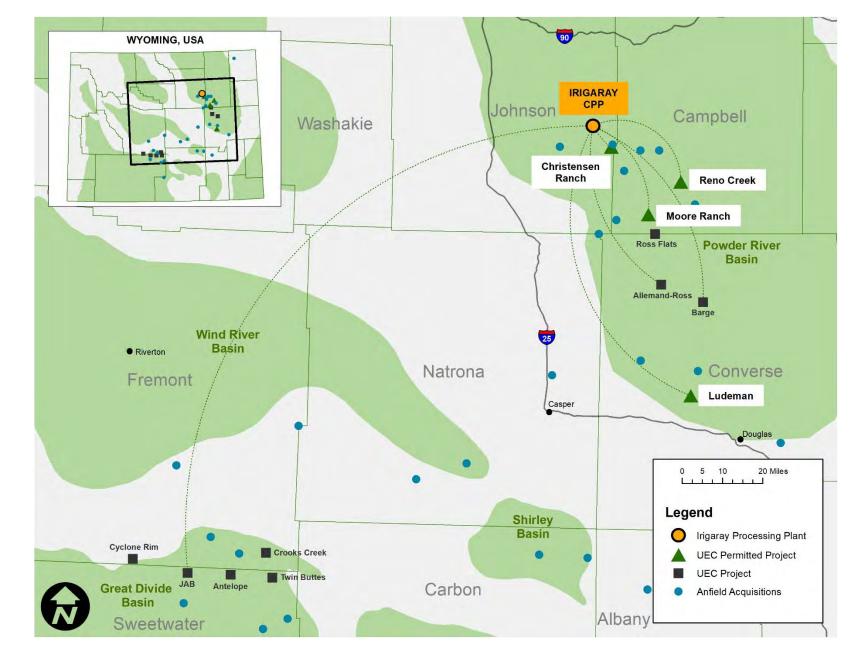
Craig Wall

VP of Environmental, Health & Safety

Over 15 years of permitting ISR projects in the U.S. ESG project manager. Chairman of Texas Mining & Reclamation Association uranium sub-committee.



Wyoming Hub & Spoke Production Strategy





Irigaray & Christensen Ranch

One of the largest ISR central processing facilities in the U.S.



Reno Creek ISR Project

The largest permitted, preconstruction ISR uranium project in the U.S.



Irigaray & Christensen Ranch

Licensed Capacity of 2.5 M lbs. Per Year

15.5 M lbs. M&I and 0.14 M lbs. Inferred U_3O_8 Resources^{*}

- One of the largest ISR central processing facilities in the U.S.
- Plant and infrastructure production ready four fully installed wellfields on standby
- Resin Processing Agreement in place with 3rd party at Irigaray through 2024







Header House MU7



Christensen Satellite Plant

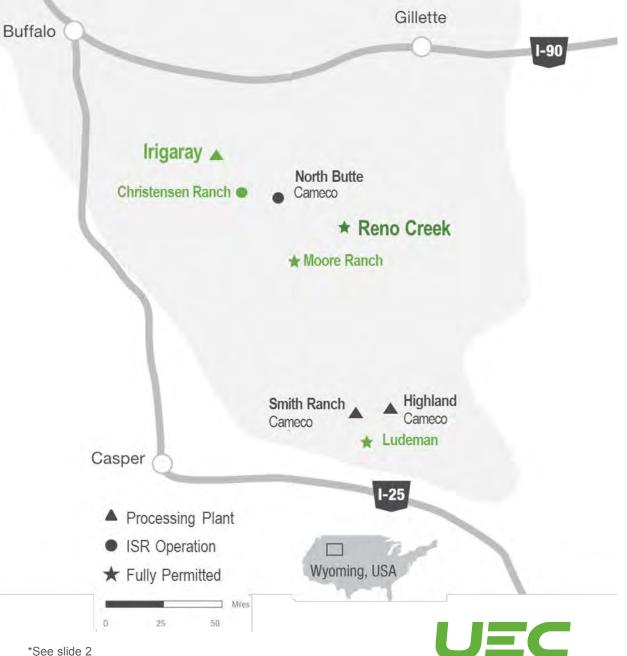


Reno Creek ISR Project

The largest permitted, pre-construction ISR uranium project in the U.S.

26 M lbs. M&I | 1.5 M lbs. Inferred U₃O₈

- 45 miles by road from Irigaray Central Processing Plant
- Licensed for 2 M lbs./year
- Significant CAPEX savings expected
- Considerable ISR exploration and expansion potential
- Production permits in place

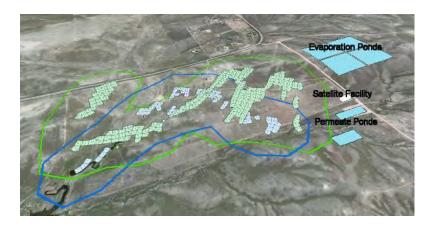


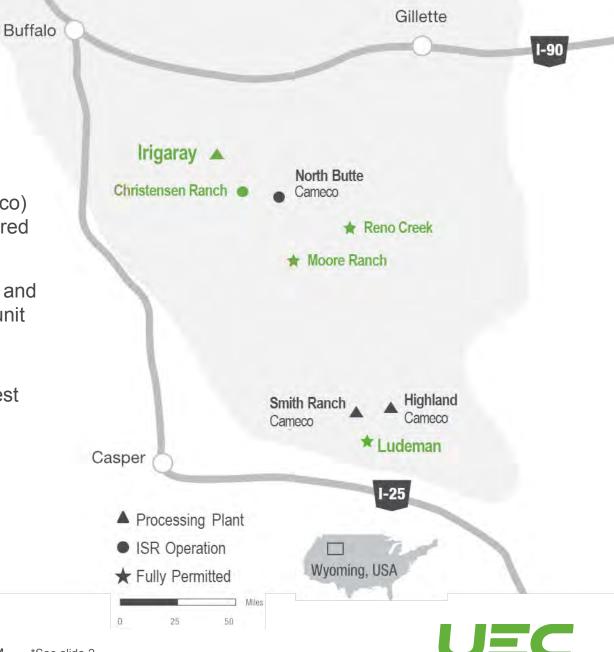
Ludeman ISR Project

Permitted, Construction Ready

9.7 M lbs. M&I $\,\mid$ 1.3 M lbs. Inferred $\rm U_3O_8^{*}$

- Most of the project area was held by Power Resources (Cameco) until 2003, after which Energy Metals (precursor to U1A) acquired the properties
- Engineering completed for satellite plant facility, infrastructure, and evaporation ponds, with mine design completed for first mine unit
- Additional exploration upside along known uranium trends
- Satellite operation to Irigaray, 120 miles by road to the northwest





Moore Ranch ISR Project

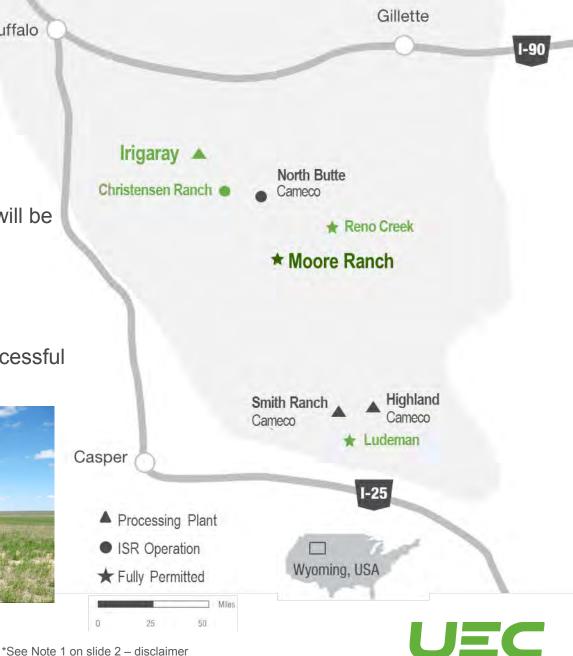
Permitted, Construction Ready

3.21 M lbs. M&I | 0.04 M lbs. Inferred $U_3O_8^*$

Fully permitted for 3 M lbs./yr full processing plant, although will be constructed and operated as a satellite to Irigaray CPP

Buffalo

- Delineation drilling and wellfield pattern design complete
- Pilot operations to determine wellfield flow conditions are successful
- Additional exploration upside along known uranium trends
- Satellite operation to Irigaray, • 55 miles by road to the northwest









Hobson is fully licensed and permitted

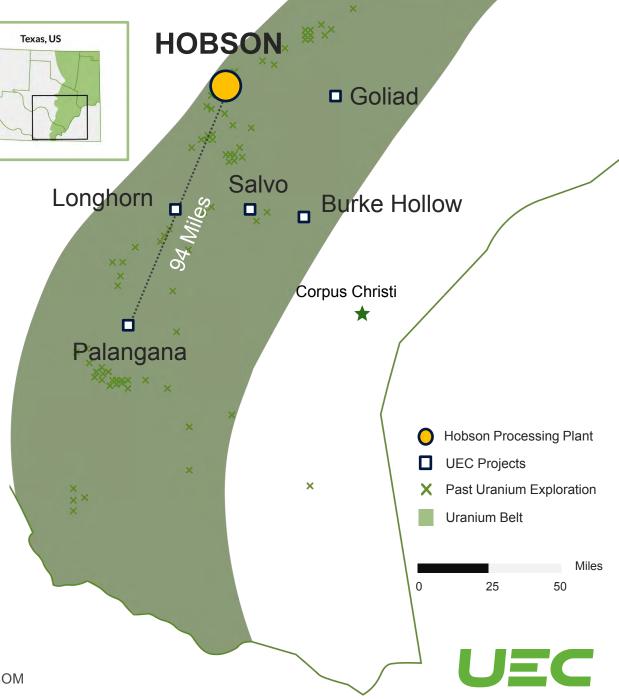


The Processing Plant has a 2 M lbs. / yr physical capacity



Palangana ISR Mine First Producing Mine Proof of Concept

\$10M
Initial CAPEX6 months construction timelineProduction
Ready. Low cash cost of \$21.77/lb. during
operation
. Fully permitted incl. expanded mine permit
. Received 10-year renewal permits in 2019Similar Costs
for Future
Projects. The major permits for production have been
issued for Goliad and Burke Hollow



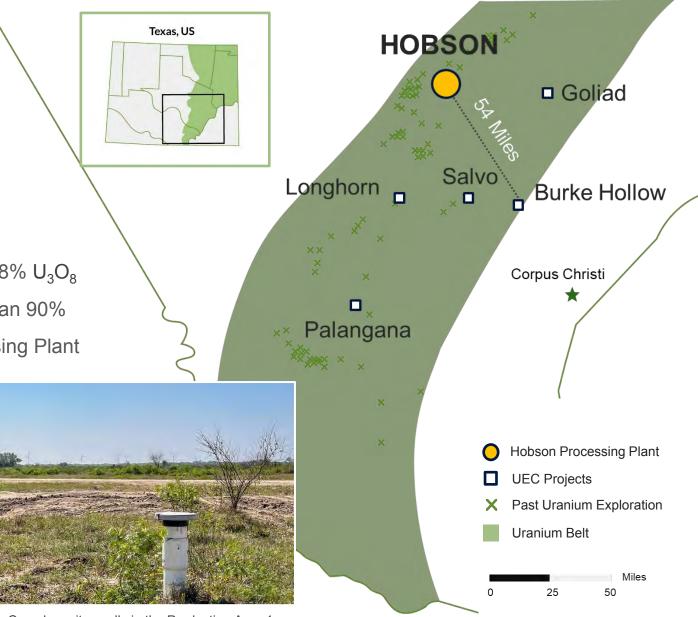
Burke Hollow ISR Project, South Texas

Advancing Towards Uranium Extraction

- Discovery of six trends since 2012
- 7.09 M lbs. Inferred Resources in 4.06 Mt grading 0.088% U₃O₈
- Leach amenability testing indicates recovery greater than 90%
- ~20,000 acres located ~50 miles from Hobson Processing Plant
- 50% of the property unexplored

Final permits issued:

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



Cased monitor wells in the Production Area 1, at Burke Hollow Project

See news releases dated July 27, Jan 26, Apr 14, 2022, and Oct 28, 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.

2022 Production Area Development Plans

- Completed the installation of 106 monitor wells for Production Area Authorization 1 ("PAA-1")
- Transitioning into additional exploration and delineation drilling within the 19,336-acre Project to define additional production areas
- Permitting activities to include baseline sampling of all PA-1 monitor wells, pump tests and preparation of the final authorization to begin production
- ✓ Complete delineation drilling for PA-2 trends



See news releases dated July 27, Jan 26, Apr 14, 2022, and Oct 28, 2021. Refer to a detailed breakdown of NI 43-101 resources and disclaimer on slide 2.



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 lbs)
Yuty	Cue Resources / Cameco	Exploration / Development	8.96 M lbs. in 9.074 Mt grading 0.049% $\rm U_3O_8$ Indicated 2.20 M lbs. in 2.73 Mt grading 0.040% $\rm U_3O_8$ Inferred^ $^{(1)}$

Project	Historic Operator	Stage	Exploration Target (M lbs)
Oviedo	Anschutz Corp	Exploration	23 – 56 M lbs. in 28.9 - 53.8Mt grading 0.04% to 0.052% $\rm U_3O_8^*$





Anderson Project - Arizona

A Large U.S. Resource	 S-K 1300 compliant resource*: Indicated Resource: 16.17 Mt, 32.05 M lbs. avg. grade of 0.099%
8,268 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

Active Mines in Anderson Project Area ARTZONA R - 8 4 -Tennessee - Schuykill Emerald Isle Deposit Darling Pit Bagdad Pit Burro Creek United Verde Mine Gordon's Pit and Wilkinson's Pit Lynx Creek Placers Bonanza Winkelman Miserson Quarry Magic Mountain 父父 Monte Cristo Anderson Project Camp Verde Gypsum Pit Zulu Person 120 Silver Queen Paydirt file and Commodity 2 Zec 🛠 Semiprecious Genetone Gemistone Miles X Zeolites Quartz 20 Manganese 152 Copper 0 5 10 S Unenum 2 S Lithian Perite Bismuth, Feldsper Olivine St Lead S Beryllum 52 Tungsten 2 X Kaola 50 Bentonite Sulfur-Pyrts Molybdenum, Copper 82 Molybdenum Se iron 1 Baium-Baite Suffur, Suffuric Acid S Silver 52 Mice S? Gold 52 Asbestos Uranium Energy Corp

*See Note 1 on slide 2 – 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 2021 and Resource estimation updated
- Valuation and Market study completed and PEA Phase 2 underway



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





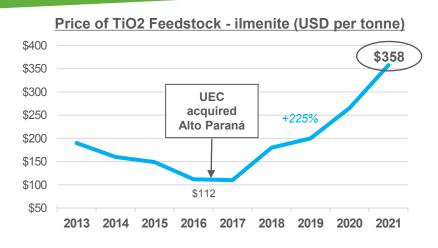
Project History



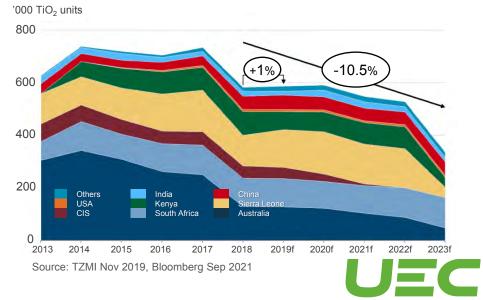
Titanium Feedstock Market – TiO2 prices hitting 3-year highs

- 90% of TiO₂ feedstocks (ilmenite) used for pigment manufacturing
- Strong price recovery for ilmenite since 2017, with positive outlook, driven by:
 - Strong pigment demand & supply constraints
 - Stringent environmental regulations driving highgrade feedstock fundamentals
 - Anticipated high-grade feedstock supply deficit

Good fit for Alto Parana – capable of producing highgrade TiO_2 feedstock for both sulfate or chloride slag production



Significant Supply Deficit – High Grade TiO2 Feedstocks



Investment Summary

- Fastest growing, 100% unhedged and pure play uranium business listed on the NYSE American
- Production ready, low-cost In-Situ Recovery (ISR) mining with the largest resource base of fully permitted ISR projects of any U.S. based producer
- Production profile of 6.5 M lbs. U₃0₈ per year based on permitted and installed capacity of Wyoming and South Texas hub-and-spoke operations
- Physical uranium program includes 5 M lbs. of U.S. warehoused uranium¹
- Strong Balance sheet with \$182 million of cash and liquid assets, no debt²
- Geopolitical events and energy independence are placing in premiums on American's supply

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 (1) See UEC news release dated Apr 20, 2022 (2) Company's news release dated June 14, 2022; See Disclaimer on slide 2



Nuclear Energy

Clean, Safe, Reliable & Economic

Perfect Compliment to Renewable Wind and Solar

Saves Lives and Improves Quality of Life



Reactor Demand Significantly Exceeds Primary Production

U.S. Uranium Production Needed to Fill Gap

2022 Demand expected = 205 M lbs.

2022 Production expected = 134 M lbs.

2022 Production gap is 71 M lbs. below requirements

Cumulative gap through 2029 is 305 M lbs., 440 M lbs. by 2032







Source: UxC Market Outlook Q2 2022 38 URANIUM ENERGY CORP | NYSE AMERICAN: UEC | URANIUMENERGY.COM



Robust Nuclear Power Growth

Global investments in nuclear energy generation are projected to average well over \$100 billion per year through mid-century⁸



CHINA approves 6 new reactors⁹ and is planning for 70 GW of installed nuclear capacity by 2025, at least 150 new reactors in the next 15 years²

SOUTH KOREA incoming government will reverse the country's nuclear phaseout plan⁷ **INDIA** plans for 21 new reactors by 2031; 10 new plants over next 3 years⁵

JAPAN 33 operable reactors. Energy Plan targeting 20-22% nuclear power, nuclear deemed essential to achieve net-zero target by 2050. The majority of Japanese support restarting idled nuclear reactors for the first time in over a decade⁶ **U.A.E.** completed 3 reactors; 1 unit under construction³

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

FINLAND New survey from Finnish Energy reveals that support for nuclear is higher than ever¹⁰ **U.K.** upgrading nuclear fleet to new advanced reactors - wants 25% of its electricity from nuclear power, signals a significant shift in the country's energy mix

FRANCE to build 6-14 new reactors⁴

U.S. has maintained a 20% market share for 30 years with power uprates and efficiency = to 32 new reactors – A Stealth Growth Story!



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Source: IAEA PRIS Sep 2, 2022; (1) WNA Fuel Report Apr 2022; (2) South China Morning Post Mar 24, 2022; Bloomberg Green Nov 2, 2021; (3) WNN; NEI Dec 2020, Mar 2021 (4) France 24, Feb 10, 2022 (5) Bloomberg Mar 28, 2022 (6) Power-Technology.com Mar 2022 (7) Financial Times Apr 13, 2022 (8) NEI.org - United Nations IPCC Report, Apr 2022 (9) AsiaNikkei.com, Apr 22, 2022 (10) TVO.FI May 13, 2022

Nuclear Power is Critical to U.S. Energy

Bi-Partisan Support – All-time high in public support with Democrat and Republican voters now both in favor of nuclear energy

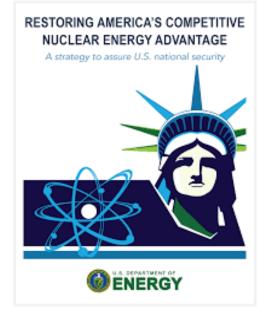
Biden Administration wants Congressional approval allowing DOE to purchase \$4.3B of domestic uranium, conversion and enrichment - end U.S. reliance on nuclear fuel from Russia and support a U.S. supply chain for existing and new advanced reactors. The \$1.5B Strategic Uranium Reserve would likely be rolled into the new program

Bipartisan Infrastructure Bill Signed Into Law that provides a \$6B nuclear credit program for qualifying nuclear plants with priority given to reactors using uranium produced in the United States

The U.S. has set a goal to reach 100% 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

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





Global Approval for Nuclear Power Continues to Grow

EU Taxonomy Includes Nuclear as an Environmentally Sustainable Investment

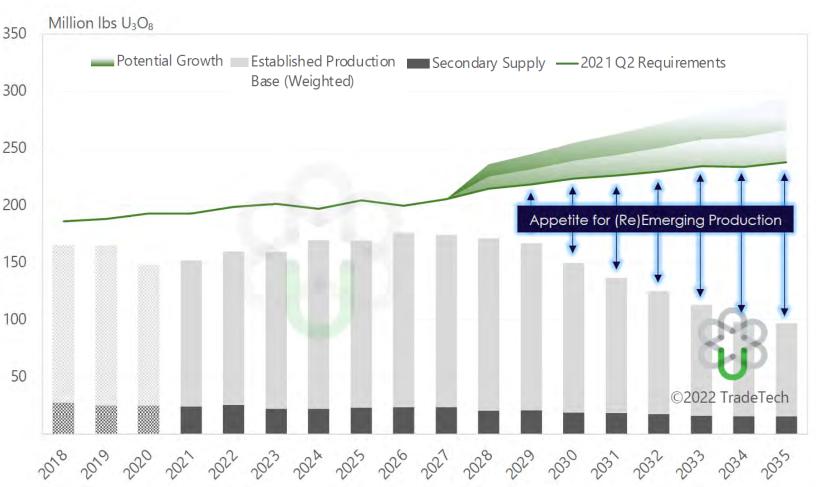


Nuclear energy is an EU asset Member States operating nuclear power plants Other Member States Non EU countries 14 Member States operating nuclear power plants 130 reactors in operation (2016) 4 24 new reactors reactors under planned construction (source PRIS, PIMC 2017) isource PRIS, PINC 2017



Global Supply & Demand Existing Primary Production + Secondary Market Supply

- Inventory overhang drawing down more rapidly than expected
- Secondary supply from Russia to western nations will be reduced/ eliminated
- Enrichment underfeeding likely to change to overfeeding - increasing uranium demand
- New production requires permitting and development lead times for new mines



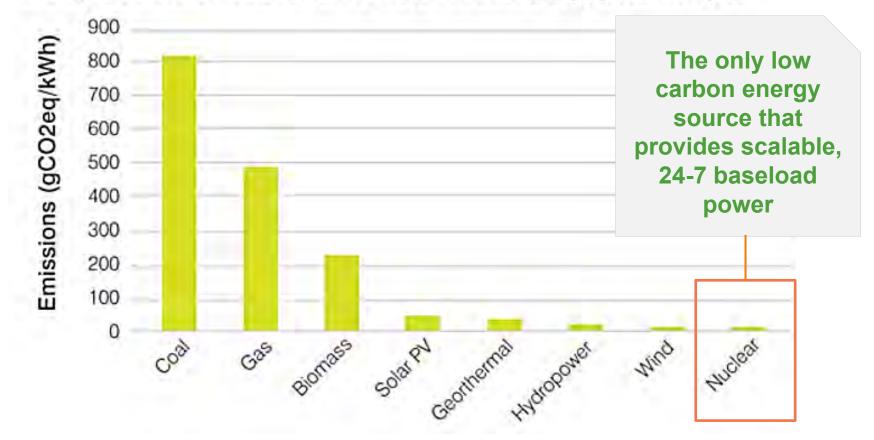
*2021 Q2 U3O8 Requirements reflect reactor requirements, inventory maintenance, and potential growth tied to national carbon reduction schemes.



Source: TradeTech November 2021

Nuclear Power = Carbon Free - Clean Energy America's Largest Clean Energy Source

Life-cycle carbon emissions from selected electricity supply technologies

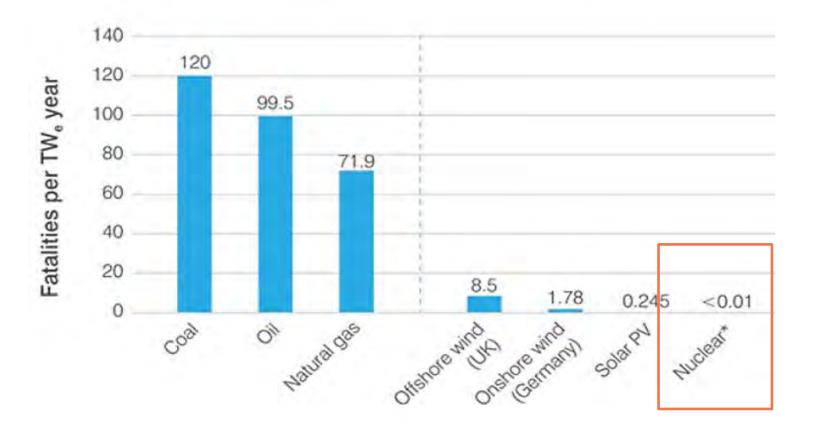


Source: World Nuclear Association – Harmony Program



Nuclear Power = Safest Form of Electricity Generation

Nuclear has the lowest energy accident fatalities for OECD countries



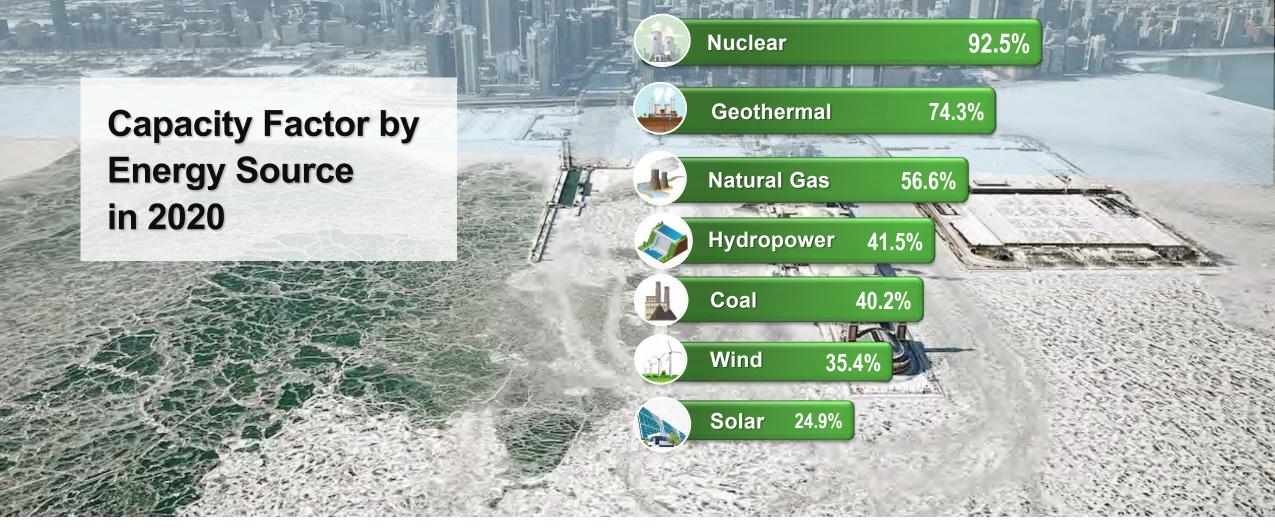
"Nuclear energy is the safest of all the electricity technologies we have."

- Patrick Moore, former director of Greenpeace



Source: World Nuclear Association – Harmony Program (1) Nuclear NewsWire July 13, 2022

2021 Polar Vortex – Nuclear Reliability at 95%



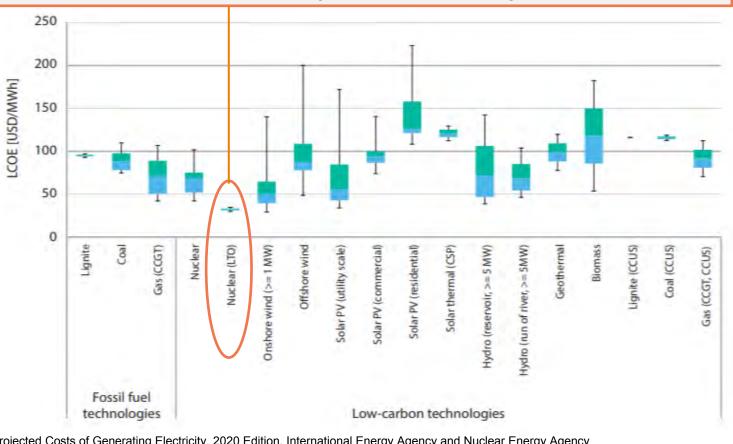
Source: U.S. Energy Information Administration





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

Most nuclear plants in the U.S. have or will extend their operational lives by at least 20 - 40 years¹



years Second license renewals will extend

80

more than 3x the useful life of renewables

carbon-free production

to 80-years³

2x the useful life of coal

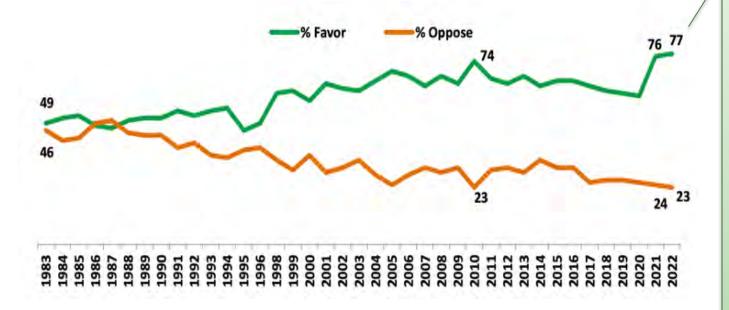
Uranium accounts for < 10% of nuclear operating costs²

(1) Projected Costs of Generating Electricity, 2020 Edition, International Energy Agency and Nuclear Energy Agency
 (2,3) WNFC Apr 2022, Constellation Presentation "A Utility View on Nuclear Fuel Supply Risk Management"
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Support for Nuclear Energy is Strong and Increasing

Favorability to Nuclear Energy 1983-2022

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



- 86% agreed that we should renew the license of nuclear power plants that continue to meet federal safety standards
- 84% agreed that our nation should prepare now so that advanced design nuclear power plants
- 72% agreed we should definitely build more nuclear power plants in the future

ECONOMIC BENEFITS









Source: www.bisconti.com/blog/public-opinion-survey-finds

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

300 SMRs (90 GWe of nuclear power) expected to be added to the U.S. grid over the next 25

years - would double today's U.S. nuclear output, NEI recent Chief Nuclear Officers poll ⁽¹⁾





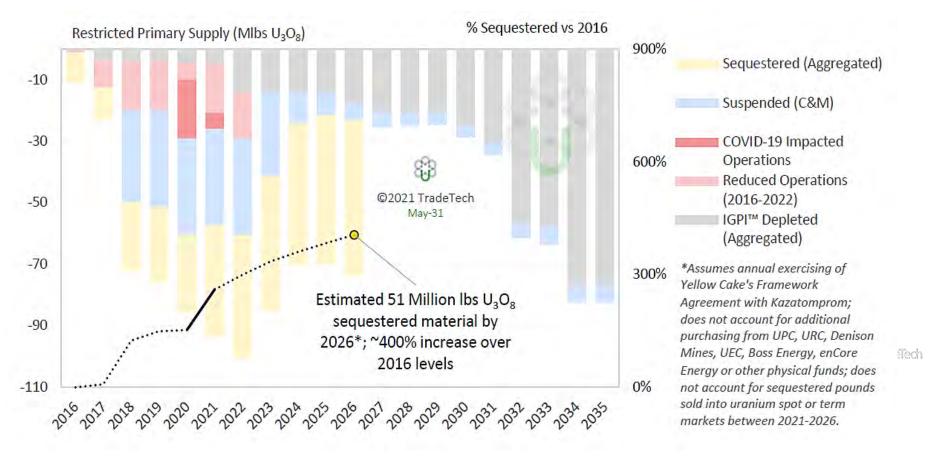


(1) NEI – Nuclear Energy Overview - June 22, 2022; Photo: Wyoming Gov. Mark Gordon (left), with U.S. John Barrasso, R-Wyo., at the Wyoming Capitol announcing efforts to advance a Natrium reactor demonstration project in Wyoming;



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

Sequestered, Suspended, Covid, Operational & Depletion Reductions

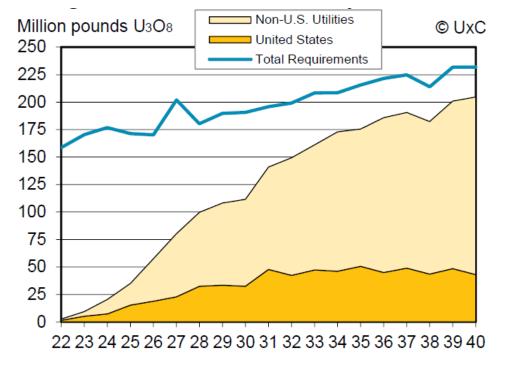


Source: TradeTech, May 31, 2021



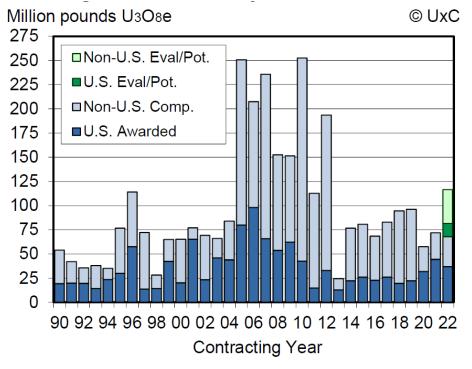
Utility Procurement Cycle: Old Contracts Rolling Off...New Contracts Need to be Signed

1.3 Billion Pounds of Contracting needed by 2035!



Utility Uncommitted Demand

Historic Long-Term Contracting



UEC

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Source: UxC Market Outlook Q2 2022

Bottom Line - Positive Market Outlook

- Demand Growth 64 reactors added to grid in past 9 years; 56 reactors under construction nuclear generation has recovered to pre-Fukushima levels – More new reactors are planned
- Strategic Interest Growing in Physical Inventory Producers, Developers, Financial buyers
- The Department of Energy's historic announcement to purchase 17-19 M lbs. U.S. mined U₃O₈
 DOE's initial 1 M lbs. domestic uranium purchase underway in August 2022
- Strong Bipartisan Support for Nuclear Energy, Included in U.S. Energy Carbon Free Goals, Clean Energy Standard, American Jobs Plan
- ✓ Utility Procurement Cycle Starting to Unfold "New" fundamentals have not been tested
- ✓ **Underinvestment and Supply Cutbacks** significant primary supply deficit
- ✓ Lead Time to Advance Large New Mines can be 10 years or longer.
- Accelerated Market Re-Balancing Growing primary production shortfall exists. Russian Invasion of Ukraine is resulting in a reduction of nuclear fuel supply to Western nations

Appendix

UEC Resource Summary⁽¹⁾



PROJECTS	Tons	JRED RESOL Grade	Lbs. U3O8	Tons	TED RESOL Grade	Lbs. U3O8	M+I Lbs. U3O8	Tons	NFERRED Grade	Lbs. U3O8		RATION TAR				HISTORIC**	
	('000)	(% U3O8)	('000)	('000)	(% U3O8)	('000)	('000)	('000)	(% U3O8)	('000)	Tons ('000)	Grade (% U3O8)	Lbs. U3O8 ('000)	Tons ('000)	Grade (% U3O8)	Lbs. U3O8 ('000)	
RIZONA	(000)	(/00000)	(000)	(000)	(/00000)	(000)	(000)	(000)	(/// 0000)	(000)	(000)	(/// 0000)	(000)	(000)	(/0 0000/	(000)	
nderson				16,175	0.099	32,055	32,055										
os Cuatros						,								30,000	0.02	12,000	
Vorkman Creek								3,222	0.09	5,542							
IEW MEXICO								- /		- / -							
Dalton Pass														2,530	0.09	4,430	
C de Baca														,		500	
VYOMING																	
Reno Creek	14.990	0.043	12,920	16,980	0.039	13,070	25,990	1,920	0.039	1,490					· · · · ·		
rigaray				3,881	0.076	5,899	5,899	104	0.068	141					,		
Christensen Ranch				6,555	0.073	9,596	9,596			0					·		
Moore Ranch	2,675	0.06	3,210	-,		-,	3,210	46	0.047	44					·		
Ludeman	2,674	0.091	5,017	2,660		4,697	9,714	866	0.073	1,258					·	(
Allemand-Ross	246	0.083	417	32		42	459	1,275	0.098	2,496							
Barge	210	0.000		4,301	0.051	4,361	4,361	1,270	0.000	2,100					<i> </i>		
Jab/West Jab	1,621	0.073	2,335	253	0.001	392	2,727	1,402	0.06	1,711					<i> </i>	r	
Charlie	1,021	0.073	2,335	1.255	0.12	3,100	3,100	411	0.00	988							
Clarkson Hill				1,200	0.12	3,100	3,100	957	0.12	1,113					<i>_</i>		
Nine Mile Lake				2,108	0.06	2,504	2,504	1,297	0.00	1,113					L		
				2,108	0.08	2,504			0.07						L	·	
Red Rim						,	1,142	473	0.16	1,539						·	
South Sweetwater ⁽²⁾				95	0.07	133	133	202	0.07	283					┢━━━━┛	1.00	
Pine Tree U1							0								┢────┘	1,360	
Ross Flat							0								└──── ╯	2,830	
Antelope							0								┢━━━━┛	7,000	
Crooks Creek							0								└─── ┘	6,470	
Twin Buttes							0								└─── ┘	16,000	
Cyclone Rim							0								L/	13,000	
Black Hills							0								L	1,000	
Bull Springs							0								L	4,000	
Crook's Mountain							0								L/	200	
East Shirley Basin							0								L/	2,000	
Gas Hills							0								L'	5,900	
Horse Creek							0								L'	1,200	
Mule Creek							0								!		
Niles Ranch							0									2,800	
Pine Ridge							0									1,500	
Pumpkin Creek							0									400	
South Reno Creek							0									700	
Sand Creek							0									300	
South Pine Ridge							0								\square	1,500	
Stewart Creek							0									700	
Taylor Ranch							0									1,300	
West Beaver Rim							0									1,300	
West Crook's Creek							0									600	
West Sweetwater							0									(
TEXAS																	
Burke Hollow	70	0.082	115	1,337	0.087	2,209	2,324	2,494	0.098	4,859	3.000 to 6.000	0.03 to 0.06	1,800 to 7,200				
Goliad	1.595	0.053	2,668	1,504	0.102	3.492	6,160	1,547	0.05	1,501	2,500 10 0,000		.,200 (0 .,200		,	Г	
La Palangana	7	0.158	2,000	386	0.134	1,036	1,057	328	0.18	1,154					,		
Salvo	'	0.100	21	000	0.104	1,000	1,007	1,200	0.08	2,839					P		
PARAGUAY							0	1,200	5.00	2,000							
ANAGOAT				9,074	0.050	8,962	8,962	2,733	0.04	2,203							
/utv																	
Yuty Oviedo				9,074	0.050	0,902	0,902	2,733	0.04	2,203	28,900 to 53,800	0.04 to 0.05	23,100 to 56,000		├ ──┐	ب ــــــــــــــــــــــــــــــــــــ	

URANIUM ENERGY CORP | NYSE AMERICAN: UEC | URANIUMENERGY.COM (1) Note to Investors. Measured, Indicated and Inferred Resources are estimated in accordance with SEC SK-1300 (*) Weighted averages (**) The foregoing historical resource estimates were completed prior to the implementation of NI 43-101; however, given the quality of the historic work, the Company believes the resource estimate to be relevant. A qualified person has not completed sufficient work to classify the historic mineral resources as current mineral resources, and the estimate should not be relied upon.

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Uranium One Americas

Location, History, Origin	 Located in Wyoming, U.S. strategic uranium mine region Development of uranium properties commenced in 1970's 2007 – U.S. assets including Wyoming properties acquired from EMC for \$1.5B 2010 – Willow Creek and Texas operations, acquired from COGEMA for \$38M 2021 – Acquired by UEC for \$112 million in cash, with an additional \$2.9 M in estimated working capital and the assumption of \$19 M in reclamation bonding (the "Acquisition") 								
Properties	 Powder River Basin Irigaray and Christensen Ranch (Willow Creek) Moore Ranch (Incl. Ross Flats and Pine Tree) Ludeman Allemand-Ross Barge 	Great Divide Basin Antelope Crooks Creek Cyclone Rim JAB/West JAB Twin Buttes							
Resources:	Total S-K 1300 Resources ¹ : 42 M lbs U3O8 (37.6 M lbs. M&I, 4.3 M lbs. Inferred) ¹							
Plants & Equipment	 Central Processing Plant at Irigaray: Licensed for 2.5 M lbs/yr Satellite Processing Plant at Christensen Four Installed Partially Mined Wellfields at Christensen ready for restart 								
Other	 Resin Processing Agreement in place with 3rd party at Irigaray through 2024. Potential revenue due from previous sale of conventional and non-core ISR assets Extensive and detailed U.S. uranium database 								









UEX Attributable Resource Summary

Resources Completed Under 43-101 Guidelines

Projects	Меа	sured & Indic	ated	Inferred				
(1)	Tonnes ('000)	Grade (% U ₃ O ₈)	lbs U ₃ O ₈ ('000)	Tonnes ('000)	Grade (% U ₃ O ₈)	lbs U ₃ O ₈ ('000)		
Christie Lake (2)	_	-	-	487	1.57%	16,845		
Horseshoe-Ravén	10,353	0.16%	37,426	_	-	_		
Shea Creek	1,009	1.49%	33,175	616	1.01%	13,775		
TOTAL	11,362	0.28%	70,602	1,102	1.26%	30,620		

Historical Resources

Projects	Меа	sured & Indic	ated	Inferred				
(4)	Tonnes ('000)	Grade (% U ₃ O ₈)	lbs U ₃ O ₈ ('000)	Tonnes ('000)	Grade (% U ₃ O ₈)	lbs U ₃ O ₈ ('000)		
Kiggavik (5)	1,761	0.55%	21,516	124	0.33%	905		
Millennium (6)	217	2.39%	11,423	62	3.19%	4,364		
Wheeler River	90	3.31%	6,605	4	1.66%	150		
TOTAL	2,069	0.87%	39,543	190	1.30%	5,419		

For mineral resource estimates referenced above as "historical resources," UEX and UEC are not treating this information as current mineral resources, have not verified this information and are not relying on it. A qualified person has not done sufficient work to classify these historical estimates as current mineral resources. UEX and UEC currently do not plan to conduct work to verify the historical estimates other than using them to guide exploratory and possible development work.

Note: Presented in metric tonnes

- (1) NI 43-101 Technical Report "Technical Report for the Christie Lake Uranium Project, Saskatchewan, Canada" with an effective date of December 31, 2021, a copy of which is available under UEX Corporation's profile on SEDAR at <u>www.sedar.com</u>. These resources are reported in accordance with the CIM Definition Standards.
- (2) NI 43-101 Technical Report "2021 Technical Report on the Horseshoe-Raven Project, Saskatchewan" with an effective date of December 31, 2021, a copy of which is available under UEX Corporation's profile on SEDAR at <u>www.sedar.com</u>. These resources are reported in accordance with the CIM Definition Standards.
- (3) NI 43-101 Technical Report "2022 Technical Report on the Shea Creek Project, Saskatchewan" with an effective date of January 1, 2022, a copy of which is available under UEX Corporation's profile on SEDAR at <u>www.sedar.com</u>. These resources are reported in accordance with the CIM definition standards adopted by the Canadian Institute of Mining, Metallurgy and Petroleum council on May 19, 2014 (the "CIM Definition Standards")
- Kiggavik resources as reported by Orano in their 2021 Activities Report available on their website at <u>https://www.orano.group/docs/default-source/orano-doc/finance/publications-financieres-et-reglementees/2021/orano-annual-activity-report-2021.pdf?sfvrsn=a2e56244_8 converted from tonnes U to pounds U308 and from %U to %U308. The reader is cautioned that neither UEC or UEX are aware whether Orano's reporting of resources conforms to NI 43-101 and CIM guidelines. These are treated by the UEX and UEC as historic resource estimates. There are no other estimates available to UEC or UEX.</u>
- (5) Millennium resources as reported by Cameco on their website at <u>https://www.cameco.com/businesses/uranium-projects/millennium/reserves-resources#measured_and_indicated</u> as of December 31, 2021. The reader is cautioned that neither UEC or UEX are aware whether Cameco's reporting of resources conforms to NI 43-101 and CIM guidelines. These are treated by the Company as historic resource estimates. Cameco has reported that the estimates have been prepared in accordance with the CIM Definitions Standards. There are no other estimates available to UEC or UEX.
- (6) Wheeler River resources as reported by Denison's Prefeasibility Study as posted on October 30, 2018 on SEDAR.com using a cut-off grade of 0.2% U₃O₈ for the Gryphon Deposit and 0.8% U₃O₈ for the Phoenix Deposit. These are treated by the UEC and UEX as historic resource estimates. There are no other estimates available to UEC or UEX.



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