

AMERICA'S EMERGING URANUM PRODUCER

Corporate Presentation – April 2020



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 Proven U.S. Producer

UEC'S HOBSON PLANT -TEXAS HUB & SPOKE OPERATIONS Licensed Low-Cost U.S. ISR Projects

Operational Infrastructure – Ready to Ramp Up

Production Profile 4M lbs./yr

Aggressively Expanded Project Portfolio Through Acquisitions During the Downturn

Largest Resource Base of Fully Permitted ISR Projects in Texas and Wyoming of Any U.S. Based Producer



Reactor Demand Significantly Exceeds Primary Production

Spot Prices Below Production Costs and Hedges Falling Off

2020 Demand Expected = 182M lbs. 2020 Production Expected = 142M lbs., 12M lbs./mo 2020 + 2021 Primary Production is 85M lbs. Below Requirements Cumulative Gap is 510M lbs. by 2030

60% of Total Monthly Global Production Impacted by COVID19

Supply/demand numbers will be impacted as a result of the COVID-19 pandemic. As of April 17, mine shutdowns included Cigar Lake + McLean Mill, Kazatomprom, Rossing, Husab, and Moab Khotsong, that will reduce supply by -7 M lbs./mo. The impact to reactor demand is not yet clear.



Source: UxC Market Outlook Q4 2019; Q1 2020







Uranium Spot Price Up ~25% Year-to-Date \$32.25/lb.; Highest Since March 2016



17-Apr-04 17-Apr-05 17-Apr-06 17-Apr-07 17-Apr-08 17-Apr-09 17-Apr-10 17-Apr-11 17-Apr-12 17-Apr-13 17-Apr-14 17-Apr-15 17-Apr-16 17-Apr-17 17-Apr-18 17-Apr-19 17-Apr-20

Source: TradeTech, Numerco, UxC BAP furnished courtesy of UxC, LLC: www.uxc.com, April 17, 2020



\$1.5 Billion in U.S. Uranium Reserve in Trump's FY2021 Budget

U.S. Is The World's Largest Consumer of Uranium

Secretary of State Mike Pompeo recently said:

"We need to fundamentally review our supply chains and make sure that we know those supply chains and have control over them for moments just like this."

Further, with respect to uranium, he stated that

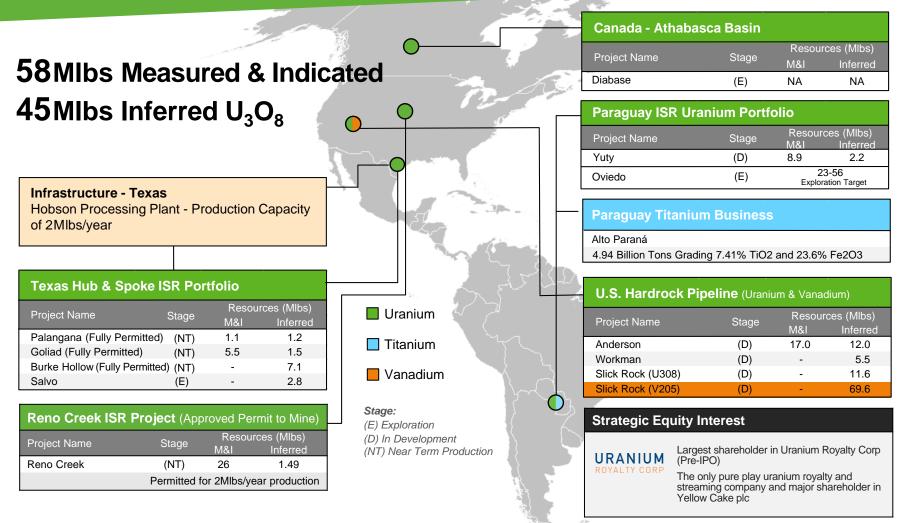
"We've got to get back our mining, processing, enriching cycle"



Projected 2020 U.S. Demand: ~50M lbs. U.S. Production: ~0



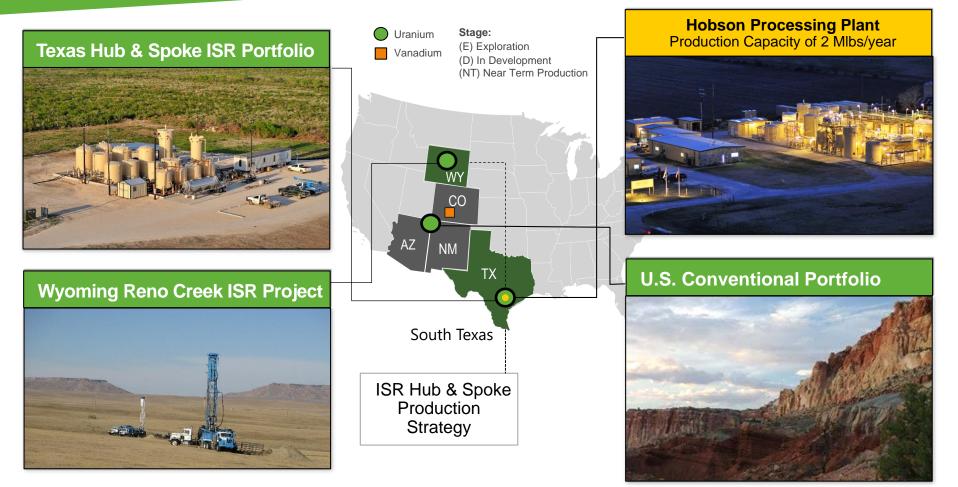
Diversified Asset Portfolio Low-Cost ISR & Production Ready



UEC

Please refer to a detailed breakdown of NI 43-101 resources and disclaimer in this presentation

U.S. Project Portfolio 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.



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.



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.



Robert Underdown

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



Clyde Yancey

VP of Exploration

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



Scott Melbye

Executive Vice President

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



Andy Kurrus

VP of Resource Development

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



UEC At a Glance

Member of the Russell 3000® Index

Cash ⁽¹⁾ Securities ⁽²⁾	\$10.3 M 14 M shares of URC with market value of \$12.2 M				
Share Structure	183.9 M Outstanding	7.7 M 10 M Warrants + Options ⁽³⁾	202.6 M Fully Diluted		
Recent Activity	\$0.82 As of April 17, 2020	1,211,574 Avg. Daily Vol. (3-mo)			
Market Cap	\$151 M As of April 17, 2020	\$20 M ⁽⁴⁾ Long-Term Debt			
Top Shareholders UEC Team, J.P. Morgan Global Natural Resources Fund, Blackrock, CEF Holdings			Blackrock, CEF Holdings,		

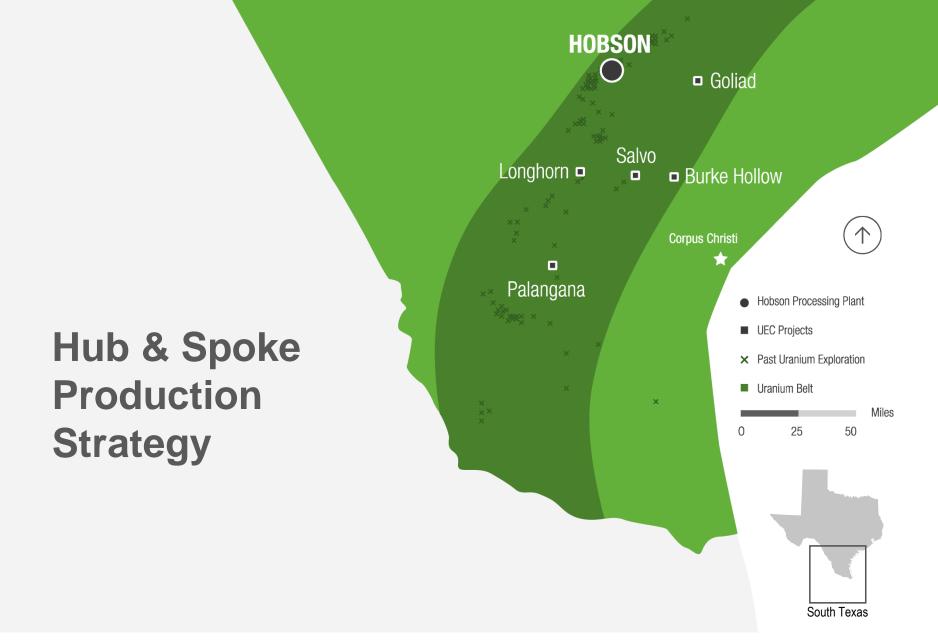
Sprott, KCR Fund, Vanguard Group and Global X Management, Geiger Counter

- ⁽¹⁾ As of the Company's filing for the period ended January 31, 2020
- ⁽²⁾ Uranium Royalty Corp (URC: TSX-V) having a trading price of CAD\$1.15 at closing on January 31, 2020. These shares are subject to escrow and resale restrictions as set forth in URC's final prospectus filing
- $^{\rm (3)}\,$ \$28 M cash to be received should all warrants and options be exercised
- ⁽⁴⁾ No principal repayments until maturity on January 31, 2022

ANALYSTDavid Talbot, Eight CapitalCOVERAGEHeiko Ihle, H.C. Wainwright & Co.

Colin Healey, Haywood Securities Inc. **Joseph Reagor**, ROTH Capital Partners







Hobson is fully licensed and permitted.



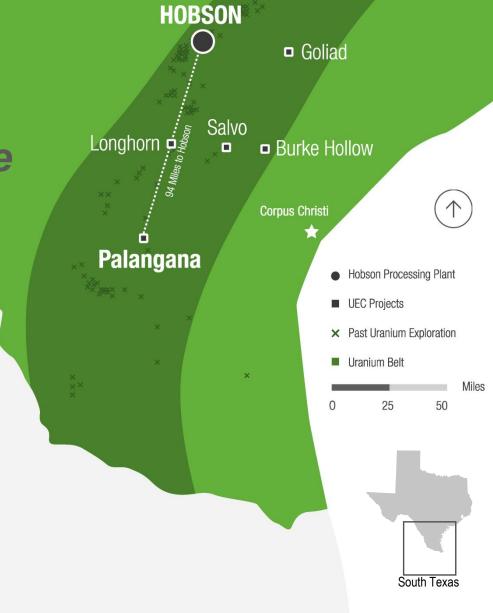


The Processing Plant has a 2MIbs / year physical capacity

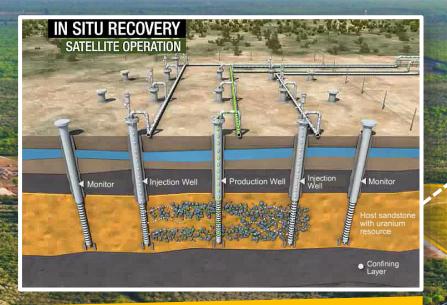


Palangana ISR Mine First Producing Mine Proof of Concept

\$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



UEC



In-Situ Recovery (ISR) Technology

Low Cost & Environmentally Friendly

Palangana Production Area 1 (PA-1)

Palangana lon Exchange Facility





Resin Hauling Truck And Trailer

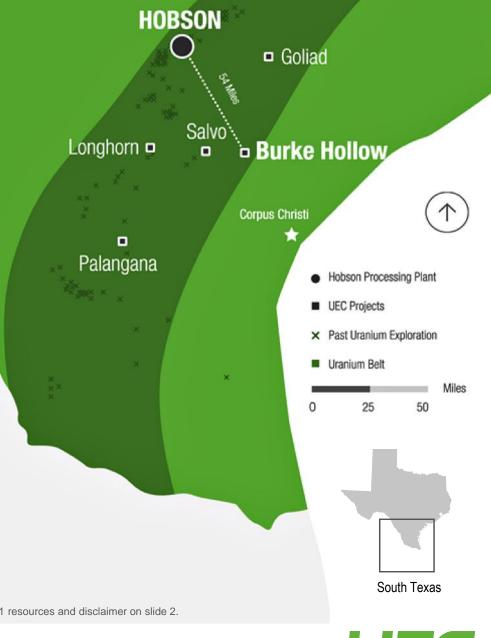


Burke Hollow ISR Project Growth Ahead

- Discovery of six trends since 2012
- 7.09Mlbs in 4.06Mt 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

16

*See news release dated Nov 5, 2019 and refer to a detailed breakdown of NI 43-101 resources and disclaimer on slide 2.



Burke Hollow Advancing Towards Uranium Extraction

The following final permits have been issued:

Mine Production Area Two Class I disposal wells Aquifer Exemption Radioactive Materials License* 2019 Drilling Discovers Additional Mineralization in Production Area 1

✓ 72 monitor wells installed

 Enlarged the Production Area 1 (PA-1) zone

Next Step: Complete the expanded PA-1 delineation drilling and monitor well installation in 2020.



*See news releases dated Nov 5, 2019 and Feb 20, 2019. Please refer to a detailed breakdown of NI 43-101 resources and see disclaimer on slide 2.

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

25

50

Reno Creek ISR Project Pre-Feasibility Study Underway



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

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

Inferred Resource 1.49Mlbs of U3O8 grading 0.039% within 1.92Mt*

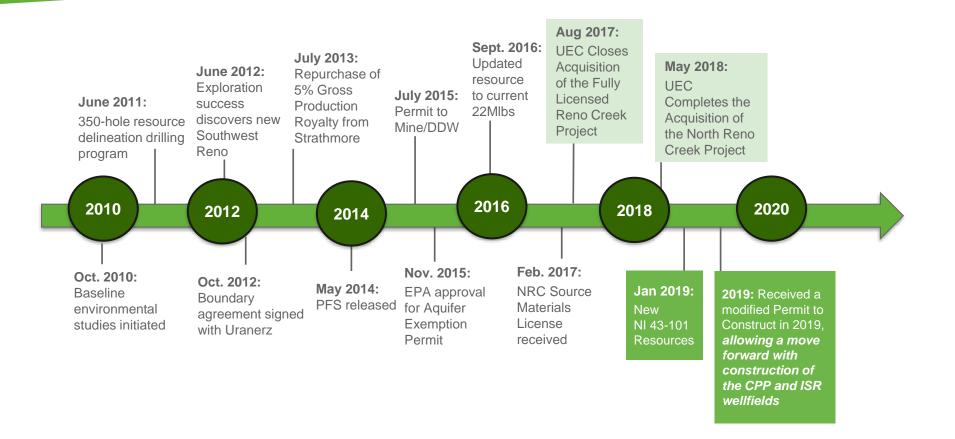
First time since 1980 that the major mineralized trends have been consolidated

Considerable ISR exploration and expansion potential

Production permits in place



Reno Creek: Project Timeline



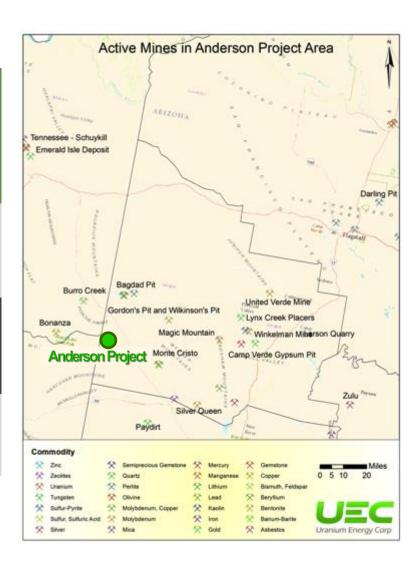
* See news release dated January 15, 2019. Please refer to a detailed breakdown of NI 43-101 resources and see disclaimer on slide 2.



Anderson Project - Arizona

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

*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, 11.6Mlbs avg. grade of 0.228% Inferred Resource: 2.5Mt, 69.6Mlbs vanadium with avg. grade of 1.37%
Low CAPEX	 \$21M initial CAPEX with an annual production of 438,000 pounds U3O8 + vanadium inferred
Vanadium Resource	 Resource of 2.549Mt grading 1.37% V2O5 and containing 69.6Mlbs
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	8.9Mlbs in 7.8Mt grading 0.052% U3O8 M&I and 2.2Mlbs in 2.1Mt grading 0.047% U3O8 Inferred*
Project	Historic Operator	Stage	Exploration Target (M lbs)
Oviedo	Anschutz Corp	Exploration	23 - 56Mlbs 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
- PEA study initiated in 2019 with 500 m drill campaign scheduled to complete February 2020
- Follow-up activities include laboratory analyses and new resource estimation



Cut-Off	%	%	% Ilmenite	Tonnes	Thickness
%	TiO ₂	Fe ₂ O ₃	calc	Billions	(m)
6.0	7.41	23.58	13.95	4.94	

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

Project History

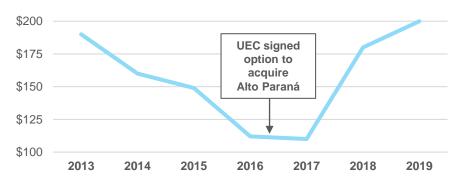


Titanium Feedstock Market – TiO2 prices hitting 3-year highs

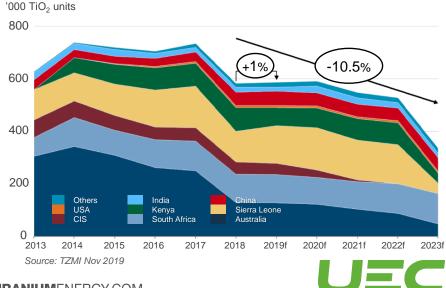
- 90% of TiO2 feedstocks (ilmenite) used for pigment manufacturing
- Strong price recovery for ilmenite since 2017, with positive outlook, driven by:
 - Strong pigment demand & balanced inventory levels
 - Environmental and yield advantages of high-grade feedstock
 - High-grade feedstock supply deficit

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

- 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 4Mlbs/year in Texas and Wyoming
- U.S. projects can provide supply under Trump's \$1.5B Uranium Reserve program
- Advancing production-readiness at Reno Creek and Burke Hollow ISR projects
- Market Fundamentals continue to improve with a growing deficit between primary production and reactor requirements



Nuclear Energy Saves Lives – Improves Quality of Life

NUCLEAF is the safest way to make reliable electricity and has saved over 3 million lives that would have been lost prematurely to deadly air pollution from energy alternatives.

https://www.nextbigfuture.com/2019/01/nuclear-power-has-saved-3-4-million-lives.html



Germany's "Energiewende" "Failed Energy Policy"

160 Billion Euro Investment in "Green Energy" has resulted in:

- Zero Progress in Reducing Carbon Emissions
- Expensive Electricity 50% higher than Nuclear France
- Reduced Reserve Margins
 Reliability Issues
- Reliance on dirty lignite Coal and Russian Gas
- Competitive disadvantage for German Industry
- Loss of confidence in German Government



Translation "A botched job in Germany"

France Gets 72% of its Electricity from Nuclear Power

THEY ENJOY:

- ✓ Per kW carbon emissions 1/10 that of Germany
- ✓ Electricity rates 1/2 that of Germany
- ✓ Clean air with abundant and affordable energy

Policies to reduce nuclear reliance overturned. Smart move in light of "Yellow Vest" outrage on gas tax.





Nuclear Power Growth Remains Robust

47 Reactors Connected in 7 Years 54 Units Under Construction

- 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. completing construction on 4 units
- 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
- U.S. is completing two new AP-1000 reactors in Georgia

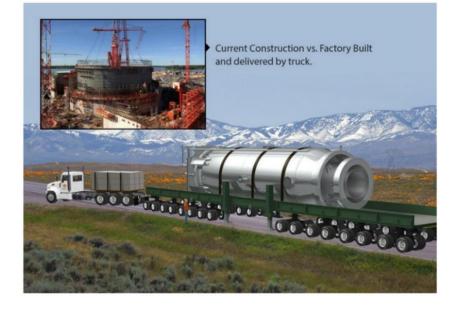




Source: World-nuclear.org; WNA, April 2020

Small Modular Reactor (SMR) An Important Emerging Market

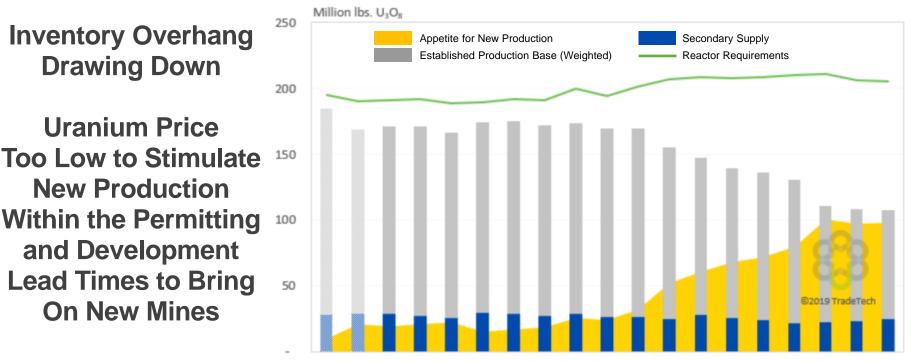
- SMR global market: 65-85 GWe by 2035 – small scalable reactors:
 - Size: 5 up to 300 MWe
 - Simpler design lower capital and operating cost
 - Cost competitive with natural gas
- Western U.S. utilities planning for 12 of the NuScale Power SMRs to be in commercial operation by 2025





Need for New Production – Beyond Existing Mines

Trade Tech's "Market Appetite" for New Production



2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035

All assumptions are consistent with TradeTech's latest proprietary assumptions, August 2019 (i.e. Q2 2019);

 Established Production Base shown is weighted to assimilate the challenge of existing operations remaining at full capacity over Life-of-Mine.



Inventory Overhang

Drawing Down

Uranium Price

New Production

Within the Permitting

and Development

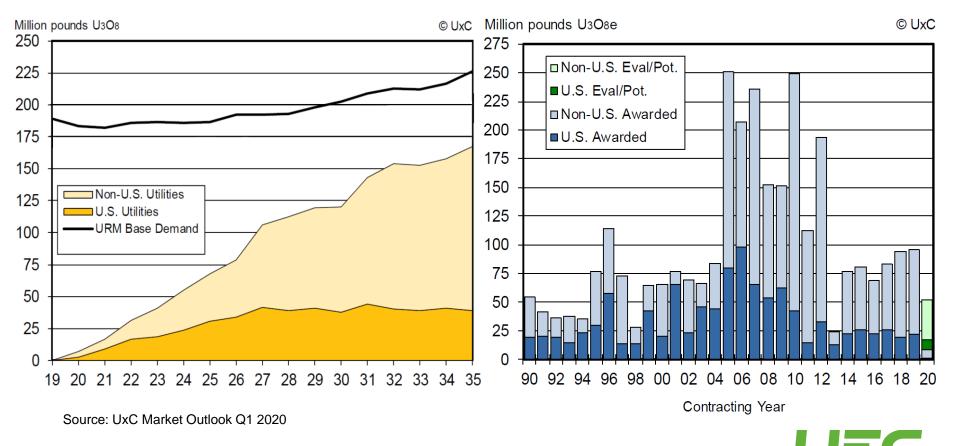
Lead Times to Bring

On New Mines

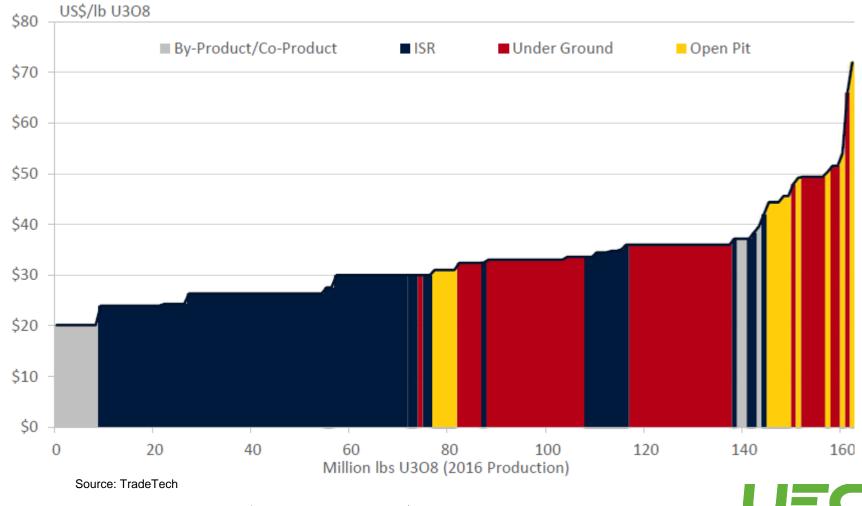
Utility Procurement Cycle: Old Contracts Rolling Off...New Contracts Need to be Signed

Utility Uncommitted Demand

Historic Long Term Contracting



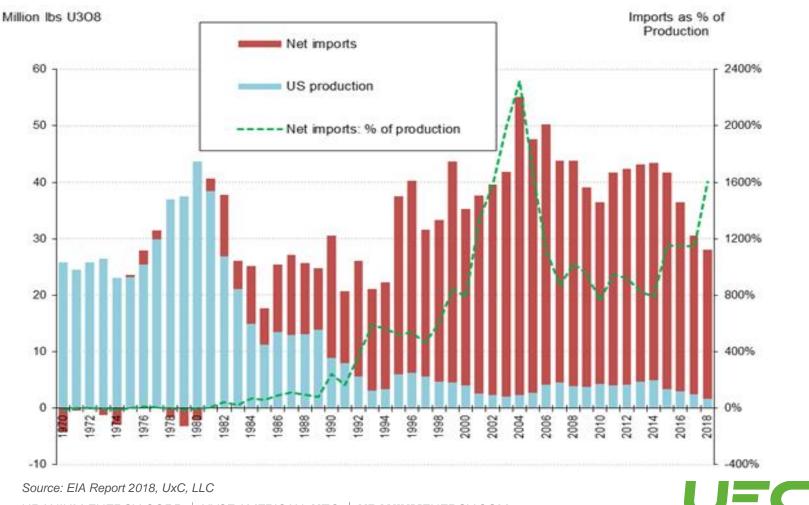
Global Cost Curve – Most U.S. Production is ISR



URANIUM ENERGY CORP NYSE AMERICAN: UEC URANIUMENERGY.COM

Overdependence on Foreign Supplies

U.S. Uranium Imports vs. Production: 1970-2018



URANIUM ENERGY CORP NYSE AMERICAN: UEC URANIUMENERGY.COM

Bottom Line - Positive Market Outlook

- Demand Growth 47 reactors added to grid in past 7 years. Global nuclear energy generation has recovered to pre-Fukushima levels
- Underinvestment and Supply Cutbacks Kazakhs, Cameco, Orano, and others, resulting in significant primary supply deficit
- Lead Time to Advance Large New Mines can be 7 to 10 years (or longer), approx. \$60/lb + incentive price
- Accelerated Market Re-Balancing Growing primary production shortfall exists.
 COVID-19 is accelerating a balancing with a -7M lbs./ mo impact
- ✓ **Utility Procurement Cycle Looming** "New" fundamentals have not been tested
- ✓ **Speculative Interest in Physical** Throwing "gasoline on the fire"
- ✓ **Upward Volatility in Uranium Price is Inevitable** despite pullbacks
- U.S. production in 2019/2020 expected to be < 1% of U.S. reactor needs 2020 production expected to be essentially zero – the US is now totally dependent on imports and inventory



Combined Resource Summary⁽¹⁾



Projects		Measured & Indicated			Inferred		
Hub & Spoke ISR Portfolio Texas ISR	Tons ('000)	Grade (% U ₃ O ₈)	Lbs U ₃ O ₈ ('000)	Tons ('000)	Grade (% U ₃ O ₈)	Lbs 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			Developmenta	I with historical resource	S	· ·	
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 ('000)	Grade (% U ₃ O ₈)	Lbs U ₃ O ₈ ('000)	Tons ('000)	Grade (% U ₃ O ₈)	Lbs U₃O₈ ('000)	
Anderson, AZ	29,532	0.03*	17,000	14,295	0.04*	12,000	
Workman Creek, AZ	-	-	-	3,222	0.09	5,542	
Slick Rock, CO	-	-	-	2,549	0.228	11,600	
Los Cutaros, AZ		Developmental with historical resources					
C de Baca, NM			Developmenta	I with historical resources	s		
Dalton Pass, NM			Developmenta	I with historical resources	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			Developmenta	l with historical resources	s		
Paraguay ISR Total	8,621	0.05*	8,914	2,353	0.05	2,226	
Company Total		58,446 ('000 lbs. U3O8) 45,445 ('000 lbs. U3O8)					

(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



URANIUM ENERGY CORP

Toll Free: (866) 748-1030 info@uraniumenergy.com www.uraniumenergy.com

Corporate Office 500 North Shoreline Ste. 800N Corpus Christi, TX 78401

Tel: (361) 888-8235 Fax: (361) 888-5041

Investor Relations: Bruce J. Nicholson

President and CEO: Amir Adnani

Executive Vice President Scott Melbye

UEC: NYSE American