

URANIUM PRICES <sup>1</sup>	As of 12/31/2020	MoM	YTD	YoY
Spot Price US\$/lb U <sub>3</sub> O <sub>8</sub>	\$30.48	3.4%	22.3%	22.3%
Long-Term Price US\$/lb U <sub>3</sub> O <sub>8</sub>	\$33.00	0%	3.1%	3.1%

GLOBAL REACTOR <sup>2</sup>	COUNT	GWe	MoM	YTD	YoY
Operable	442	393	0%	0%	-0.2%
Under Construction	53	59	1.9%	-1.9%	-3.6%
Planned	99	105	-1.0%	-9.2%	-10.0%
Proposed	326	356	0%	-1.2%	-1.2%

SLU <sub>3</sub> O <sub>8</sub> EQUITIES PERFORMANCE	As of 12/31/2020	MoM	YTD	YoY
SLU <sub>3</sub> O <sub>8</sub> Equity Index <sup>3</sup>	692.51	43.9%	43.0%	43.0%
UProducers Average <sup>4</sup>	MoM Top Performer: A.ERA: +106.3%	66.5%	71.6%	70.8%
UDevelopers Average <sup>4</sup>	MoM Top Performer: V.GLO: +133.8%	64.7%	113.2%	108.5%
UExplorers Average <sup>4</sup>	MoM Top Performer: A.BMN: +120.5%	54.5%	110.2%	111.9%

1. Price as per UxC, LLC.
2. As per World Nuclear Association; MoM, YTD and YoY percentages based on Global Reactor Count
3. SLU<sub>3</sub>O<sub>8</sub> Equity Index Performance based on CCO, DML, EFR, UEX, URE, UEC & U
4. Performance Averages from the SLU<sub>3</sub>O<sub>8</sub> UEquity list of companies

Updated on January 1, 2021

### MONTH IN REVIEW

For those watching the uranium market, it is hard to call 2020 anything other than a rollercoaster and December certainly closed out that ride with a bang.

The closure of uranium mines in Canada and Kazakhstan early in the year launched the Spot price to a new level, evening out the year end at US\$30.48/lb U<sub>3</sub>O<sub>8</sub> - a rise of 22% over the year. Unfortunately, 2020 did not attract a similar response from the Term price which closed the year up a mere \$1.00 from the year before at US\$33.00/lb U<sub>3</sub>O<sub>8</sub>.

Equities were on their own ride last year, first losing considerable ground during the initial March shutdowns and then recovering on the uranium Spot price moves. Up until the end of November the SLU<sub>3</sub>O<sub>8</sub> Equity Index was flat on the year. December then took equities on a wild ride.

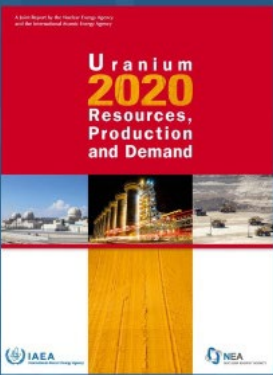
While the first week of December began with an unprompted rally in uranium stocks, the news that Cameco was again closing their Cigar Lake mine on COVID concerns and the release of the industry's "Red Book" (the bi-annual NEA and IAEA publication [Uranium 2020: Resources, Production and Demand](#)) took the Index to a five and a half year high closing the year at 692.51 - a 43% gain.

Happy New Year

Comments or question? Ask us on Twitter ([@SightlineU3O8](#)) or email us at [editor@sightlineu3o8.com](mailto:editor@sightlineu3o8.com).

## ADEQUATE URANIUM TO MEET DEMAND, LATEST RED BOOK CONCLUDES

Source: [World Nuclear News](#)



**URANIUM 2020**  
RESOURCES, PRODUCTION  
AND DEMAND

Available for download at  
[bit.ly/uranium-2020](https://bit.ly/uranium-2020)

Sufficient uranium resources exist to support the long-term, sustainable use of nuclear energy, according to the latest edition of the OECD Nuclear Energy Agency (NEA) and International Atomic Energy Agency (IAEA) joint report on uranium resources, production and demand. However, the impact of the ongoing COVID-19 pandemic on the industry and recent reductions in uranium production and exploration could affect available supplies.

Known as the Red Book, [Uranium 2020: Resources, Production and Demand](#) was published yesterday. It is the 28th edition

CONTINUED ON PG 2

## ADEQUATE URANIUM TO MEET DEMAND, LATEST RED BOOK CONCLUDES (CONT'D)

of the report, currently updated every two years, and provides a reflection of information current as of 1 January 2019. The report provides analyses and information from 45 uranium producing and consuming countries based on official data from 31 countries and national reports prepared by the NEA and IAEA on a further 14. As well as assessing uranium supply and demand in 2018, it includes projections to 2040.

The report shows that global uranium resources have increased, but more modestly than in previous years. Total identified resources recoverable (reasonably assured and inferred) as of 1 January 2019 amounted to 6,147,800 tU in the <USD130/kgU category, a slight increase of 0.1% compared to 2017. In the highest cost category (<USD260/kgU), total identified resources amounted to 8,070,400 tU, an increase of 1% compared to the total reported for the previous edition. Reasonably assured resources decreased by about 2-3% in all high cost categories. The most notable changes in reasonably assured resources are reported in the <USD80/kgU category, with a decrease of 2.8%, and in the <USD40/kgU category, with an increase of 4.4%, compared to values reported in 2017.

Continuing a downward trend over several years, worldwide domestic exploration and mine development expenditures decreased to approximately USD500 million in 2018, a significant drop from USD2 billion in 2014. This trend is not expected to result in shortfalls but could signal market issues in the longer-term, the Red Book says.

Global uranium mine production decreased by 10.8% from 2017 to 2018 due to production cuts resulting from poor market conditions, but increased slightly by 1% to 54,224 tU in 2019. Production by in-situ leaching accounted for over 55% of total global uranium production in 2018 and approximately 57% in 2019. Major producing countries, including Canada and Kazakhstan, limited total production in recent years in response to a sustained depressed uranium market. Uranium production cuts have been unexpectedly deepened with the onset of the global COVID-19 pandemic in early 2020. The report suggests that annual production capacity could increase relatively quickly by bringing idled mines back into service if market conditions improve.

### Reactor demand

The Red Book also provides projections for nuclear power generation uranium requirements up to 2040, as well as a comprehensive assessment of the uranium supply and demand relationship. In 2018, the 450 commercial nuclear power reactors in operation worldwide, with a net generating capacity of 396 GWe, required about 59,200 tU annually. Depending on developments in the nuclear energy sector, reactor-related uranium requirements could range from 56,640 tU per year in a low demand scenario to 100,224 tU per year in a high demand scenario by 2040.

"The currently defined resource base is more than adequate to meet low and high case uranium demand through 2040, but doing so will depend upon timely investments to turn resources into production," the report says. Meeting high case demand requirements up to 2040 would consume about 28% of the total 2019 identified resource base recoverable at a cost of <USD130/kgU and 87% of identified resources available at a cost of <USD80/kgU.

"Future supplies would benefit from timely research and innovation efforts to further improve uranium exploration and develop new, more cost-effective extraction techniques," the report says. "Strong market conditions will be instrumental in achieving the required industry investment to develop and deploy new technologies."

"In the wake of recent significant reductions in uranium production and the effects of COVID-19 pandemic, the coming challenges are likely to be those associated with constrained investment capabilities, as a result of depressed market conditions that will push the industry to optimise its activities still further," the Red Book concludes. •

## TOP SUPPLY NEWS

[Japan court nixes approval of post-Fukushima nuclear safety steps](#)  
December 4, 2020

[Nuclear electricity costs set to decrease, study finds](#)  
December 9, 2020

[Cigar Lake suspended due to COVID-19](#)  
December 15, 2020

[Major mine shutdown could give red hot uranium stocks another boost](#)  
December 16, 2020

[Russian NPPs fulfilled the annual plan for electricity generation ahead of schedule, generating 207.614 billion kWh](#)  
December 21, 2020

[New stimulus bill includes \\$35.2 billion for new energy initiatives](#)  
December 24, 2020

[Top uranium miner Kazatomprom sells 49% interest in two mines to China's CGN](#)  
December 29, 2020

## TOP DEMAND NEWS

[UAE achieves 1400MW of Clean Electricity as Barakah Unit 1 reaches 100% Power](#)  
December 7, 2020

[Climate could pay the price as Europe's nuclear plants age](#)  
December 21, 2020

[Pilot operation stage started at the first power unit of Belarus NPP](#)  
December 22, 2020

[Mochovce new-build project receives loan boost](#)  
December 24, 2020

[Adequate uranium to meet demand, latest Red Book concludes](#)  
December 24, 2020

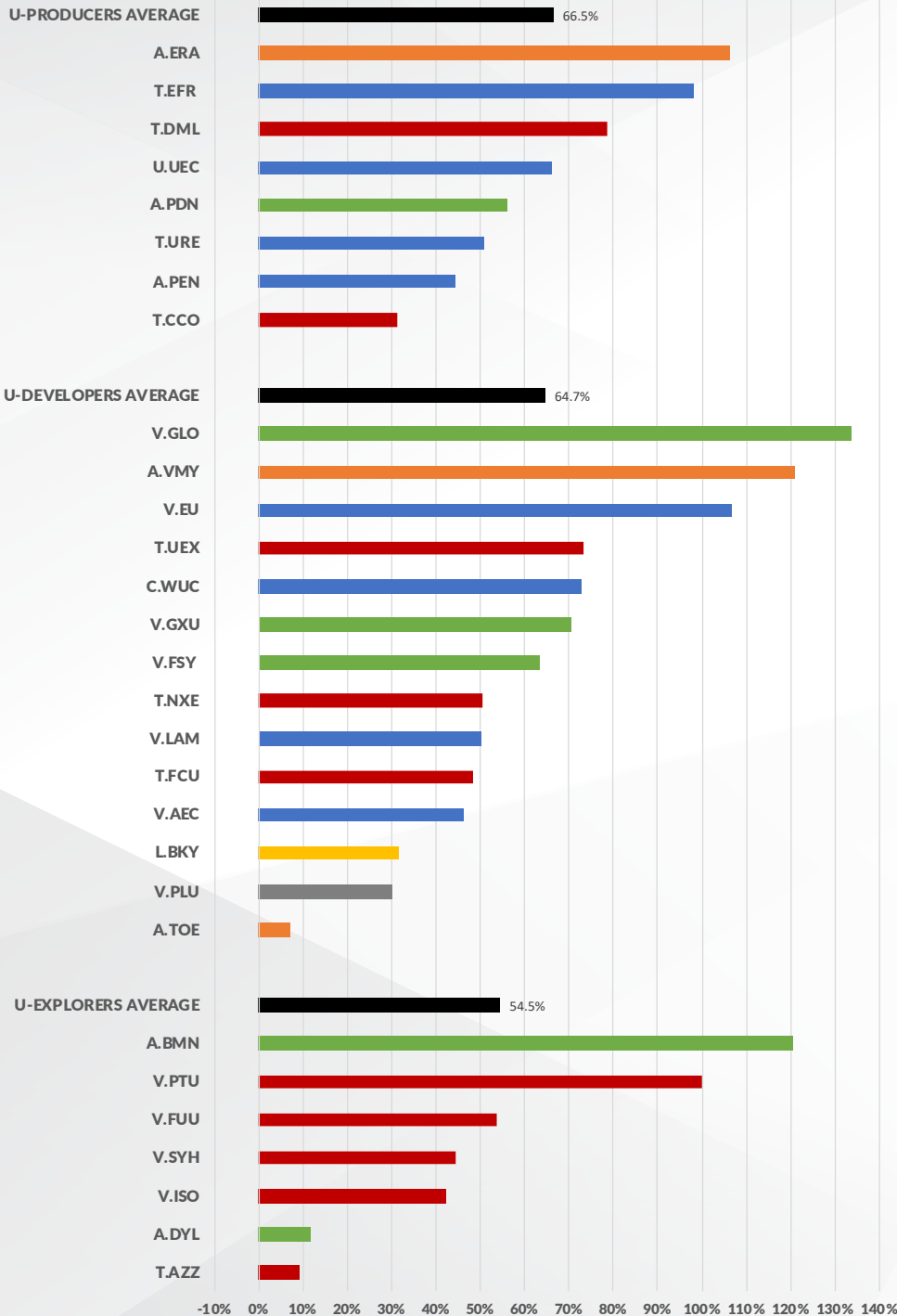
[China starts building second CFR-600 fast reactor](#)  
December 29, 2020

## SLU308 EQUITIES MONTHLY PERFORMANCE (DECEMBER 31, 2020)

### TOP EQUITIES NEWS

**Project Regional Focus:**

Red: Canada   Blue: USA   Green: Africa   Orange: Australia   Yellow: Spain   Gray: Peru



[T.DML Announces Decision to Adopt Freeze Wall Design for ISR Mining at Phoenix](#)  
December 1, 2020

[V.ISO Intersects 74.0% U3O8 Over 3.5m Within 38.8% U3O8 Over 7.5m in Drill Hole LE20-76](#)  
December 1, 2020

[T.CCO Temporarily Suspending Production at Cigar Lake Mine](#)  
December 14, 2020

[T.EFR Set to Enter Commercial Rare Earth Business in Q1-2021, Producing Materials That Make Many Clean Energy and Advanced Technologies Possible](#)  
December 14, 2020

[V.PTU Increases Size of Private Placement](#)  
December 15, 2020

[T.CCO Two Positive Tests at Cameco's Northern Saskatchewan's Operations](#)  
December 18, 2020

[V.PTU Closes its Private Placement](#)  
December 18, 2020

[T.UEX Announces 2021 Exploration Program on Three Projects Work Underway at the Huggins Lake and Michael Lake Targets](#)  
December 21, 2020

[T.EFR: Environmental and Social Responsibility Key Priorities for Energy Fuels; Sustainability Report Now Available on Company Website](#)  
December 21, 2020

[V.ISO Announces Closing of \\$4 Million Bought Deal Private Placement of Flow-Through Shares](#)  
December 22, 2020

[T.EFR Applauds \\$75 Million Launch of the U.S. Uranium Reserve in Bipartisan 2021 Omnibus Spending Bill](#)  
December 22, 2020

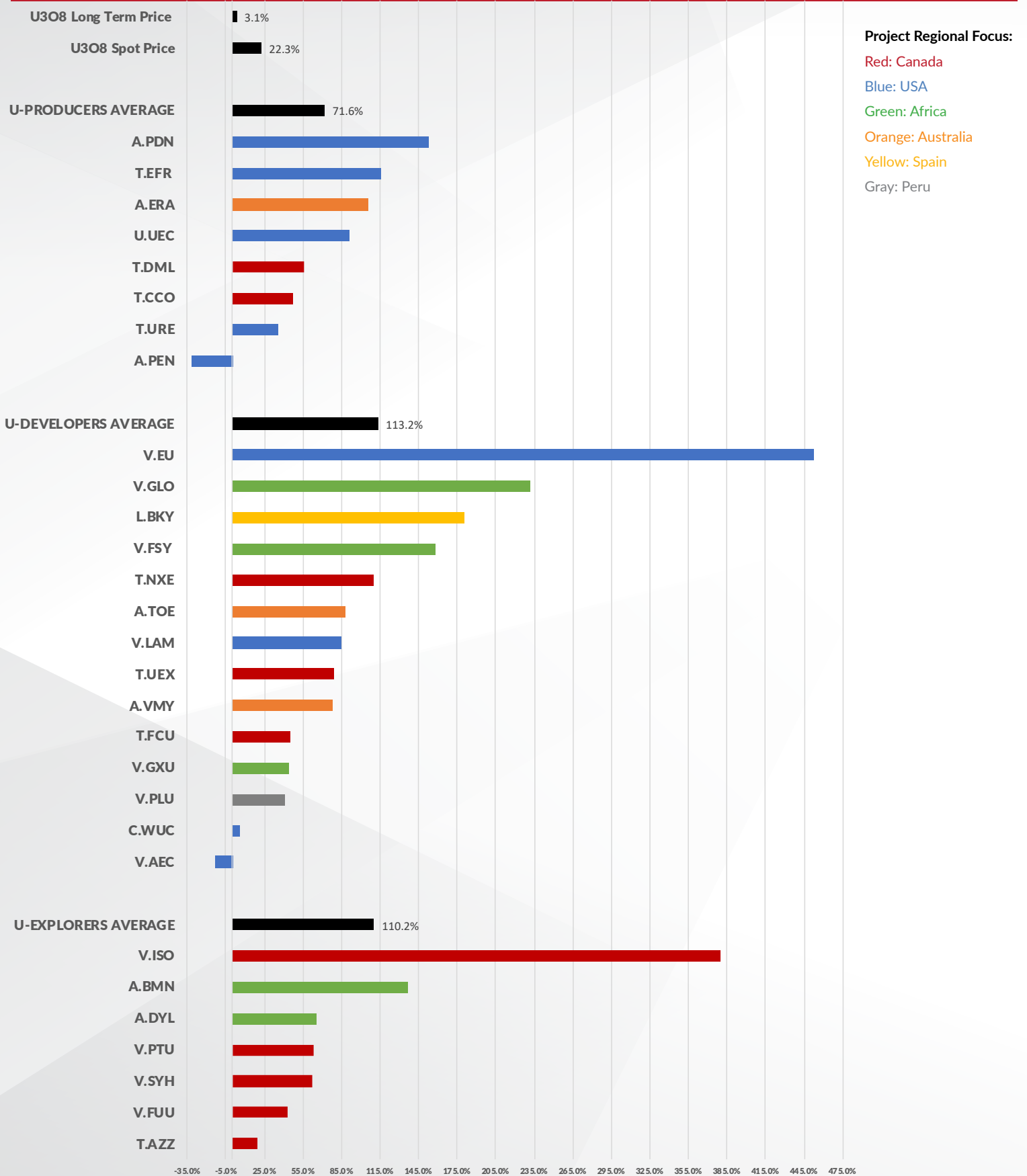
[T.UEX Commences Trading on the OTCQB Venture Market](#)  
December 23, 2020

[T.CCO Fund for Mental Health Awards \\$384,000 to 22 Projects in Saskatchewan](#)  
December 26, 2020

[T.CCO Positive Test at Cigar Lake](#)  
December 27, 2020

## SLU308

### UEQUITIES YEAR-TO-DATE PERFORMANCE (DECEMBER 31, 2020)



URANIUM PRICES	SPOT PRICE US\$/lb U <sub>3</sub> O <sub>8</sub>	LONG TERM PRICE US\$/lb U <sub>3</sub> O <sub>8</sub>
<b>UC PRICES</b>		
December 31, 2020	\$30.48 ↑	\$33.00 ●

## TOP POLITICS NEWS

[Energy Bridge has geopolitical significance, says Polenergia](#)  
December 4, 2020

[US senate committee approves uranium reserve bill](#)  
December 4, 2020

[Nuclear's Role In Electric Vehicles](#)  
December 8, 2020

[Hydrogen policies must include nuclear, says NNWI](#)  
December 16, 2020

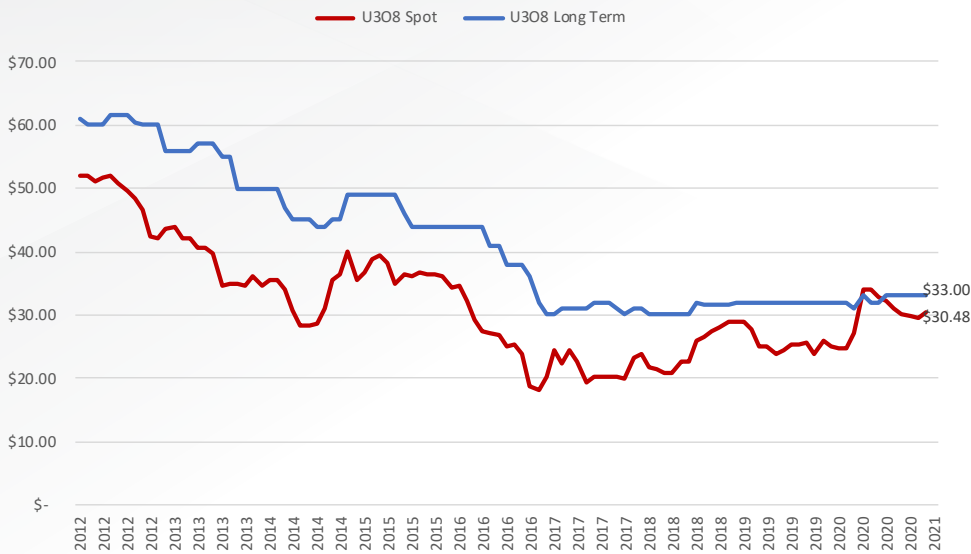
[China plans clean energy future](#)  
December 22, 2020

[Congress approves nuclear energy funding for FY2021](#)  
December 23, 2020

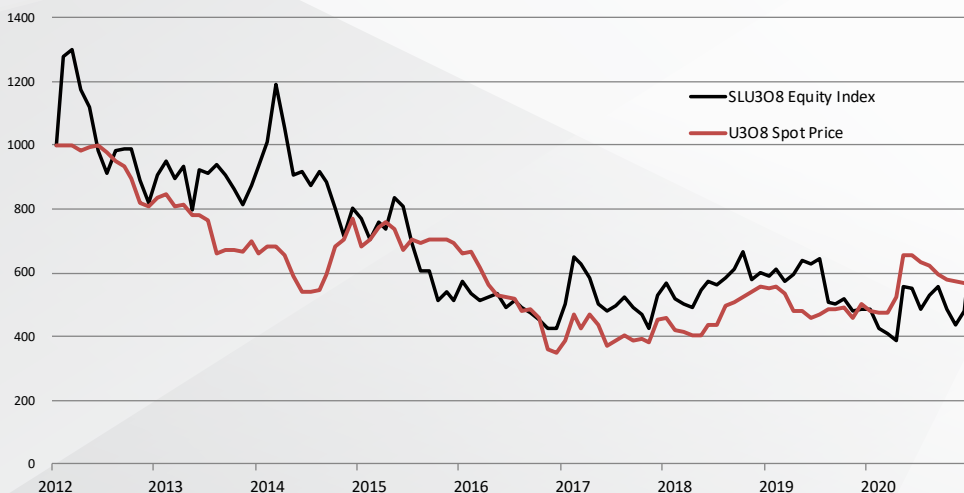
[UK and Euratom sign Nuclear Cooperation Agreement](#)  
December 29, 2020

[Extending nuclear cooperation to the Middle East](#)  
December 29, 2020

## U<sub>3</sub>O<sub>8</sub> PRICES - HISTORIC



## SLU<sub>3</sub>O<sub>8</sub> EQUITY INDEX



## TOP ALTERNATIVE NEWS

[Department of Energy to Provide \\$12 Million for Nuclear Data Research](#)  
December 7, 2020

[Want cheaper nuclear energy? Turn the design process into a game](#)  
December 17, 2020

[Canada launches strategy to become global hydrogen leader](#)  
December 18, 2020

[Canada sets out actions needed to commercialise SMRs](#)  
December 21, 2020

**SLUO EQUITIES**

PRODUCING COMPANIES		COUNTRY FOCUS	PRICE AS OF 12/31/2020	52 WEEK HIGH	52 WEEK LOW	MARKET CAP (MILLIONS)
T.CCO	Cameco Corp	Canada	\$17.05	\$18.39	\$7.69	\$6,749.18
T.DML	Denison Mines Corp	Canada	\$0.84	\$0.97	\$0.235	\$569.24
T.EFR	Energy Fuels Inc	United States	\$2.70	\$3.29	\$1.10	\$361.76
A.ERA	Energy Resources of Australia Limited	Australia	\$0.33	\$0.33	\$0.14	\$1,200.00
A.PDN	Paladin Energy Ltd	Namibia	\$0.25	\$0.29	\$0.035	\$510.13
A.PEN	Peninsula Energy Limited	United States	\$0.12	\$0.19	\$0.056	\$102.60
T.URE	Ur-Energy Inc	United States	\$1.04	\$1.15	\$0.39	\$176.45
U.UEC	Uranium Energy Corp	United States	\$1.76	\$1.87	\$0.35	\$359.99
DEVELOPMENT COMPANIES						
V.AEC	Anfield Energy Inc	United States	\$0.095	\$0.16	\$0.04	\$11.06
L.BKY	Berkeley Energia Ltd	Spain	\$32.25	\$54.99	\$6.75	\$87.93
V.EU	Encore Energy Corp	United States	\$0.94	\$0.1.13	\$0.07	\$160.14
T.FCU	Fission Uranium Corp	Canada	\$0.415	\$0.495	\$0.09	\$221.40
T.FSY	Forsys Metals Corp	Namibia	\$0.31	\$0.31	\$0.06	\$36.72
V.GLO	Global Atomic Corporation	Niger	\$1.59	\$1.59	\$0.23	\$160.86
V.GXU	Goviex Uranium Inc	Niger	\$0.23	\$0.23	\$0.075	\$90.22
T.LAM	Laramide Resources Ltd	United States	\$0.36	\$0.37	\$0.10	\$53.13
T.NXE	NexGen Energy Ltd	Canada	\$3.51	\$3.66	\$0.76	\$1,357.02
V.PLU	Plateau Energy Metals Inc	Peru	\$0.365	\$0.365	\$0.16	\$32.54
A.TOE	Toro Energy Limited	Australia	\$0.015	\$0.022	\$0.003	\$44.31
T.UEX	UEX Corporation	Canada	\$0.26	\$0.26	\$0.065	\$97.22
A.VMY	Vimy Resources Ltd	Australia	\$0.084	\$0.084	\$0.019	\$65.41
C.WUC	Western Uranium and Vanadium	United States	\$1.09	\$1.20	\$0.245	\$32.64
EXPLORATION COMPANIES						
T.AZZ	Azarga Uranium Corp	United States	\$0.24	\$0.315	\$0.07	\$53.37
A.BMN	Bannerman Resources Limited	Namibia	\$0.097	\$0.10	\$0.015	\$104.26
A.DYL	Deep Yellow Limited	Namibia	\$0.48	\$0.52	\$0.10	\$119.06
V.FUU	Fission 3.0 Corp	Canada	\$0.10	\$0.11	\$0.02	\$16.99
V.ISO	IsoEnergy Ltd	Canada	\$1.92	\$2.19	\$0.23	\$178.76
V.PTU	Purepoint Uranium Group Inc	Canada	\$0.09	\$0.09	\$0.025	\$17.16
V.SYH	Skyharbour Resources Ltd	Canada	\$0.26	\$0.275	\$0.08	\$25.65
OTHERS						
T.U	Uranium Participation Corp	Canada	\$4.91	\$5.40	\$3.12	\$626.27
L.GCL	Geiger Counter Ltd	UK	\$27.70	\$28.00	\$9.60	\$25.81
U.URA	Global X Uranium ETF	US	\$15.33	\$15.33	\$6.94	\$233.27
L.YCA	Yellow Cake Plc	UK	\$249.00	\$249.00	\$148.20	\$209.31
T.HURA	Horizon Global Uranium ETF	Canada	\$13.72	\$14.20	\$5.79	\$9.97
U.URNM	North Shore Global Uranium Mining ETF	United States	\$42.90	\$42.90	\$15.55	\$37.98
V.URC	Uranium Royalty Corp	Canada	\$1.49	\$1.50	\$0.80	\$90.51

Note: Currencies for the price and market cap are respective to the country of trade.

SIGHTLINE | U<sub>3</sub>O<sub>8</sub>[www.sightlineu3o8.com](http://www.sightlineu3o8.com)Follow us @ SightlineU<sub>3</sub>O<sub>8</sub>**ABOUT THE SLU<sub>3</sub>O<sub>8</sub> EQUITY INDEX**

The SLU<sub>3</sub>O<sub>8</sub> Equity Index tracks the relative share price of a select basket of uranium-based equities, checking the market's reaction to industry activities. The Index is based on share price movement since January 1, 2012 (1,000.00) of the following companies\*:

- Cameco Corporation
- Denison Mines Limited
- Energy Fuels Inc.
- UEX Corporation
- UR-Energy Inc.
- Uranium Energy Corp.
- Uranium Participation Corp

\* As the significant stock price movement of Fission Uranium Corp and NexGen Energy Ltd. is a function of major uranium discoveries, we have not included their stock performance in the Index to better reflect the uranium equities market in general.

**ABOUT SIGHTLINE SLU<sub>3</sub>O<sub>8</sub>**

**Sightline U<sub>3</sub>O<sub>8</sub>** is a nuclear industry research organization reporting through a monthly newsletter and supporting website created and maintained to provide uranium investors and industry stakeholders with a single source of insight into the ongoing factors that directly affect uranium prices.

We welcome your comments, questions and ideas. Please contact us at

[editor@sightlineu3o8.com](mailto:editor@sightlineu3o8.com)

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