

URANIUM WEEKLY

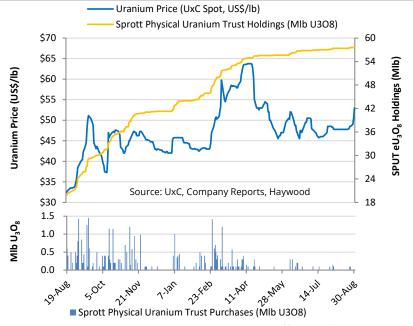


Uranium Price & Stream of Positive Sector Fundamental Headlines Driving Momentum

SPUT RAISING CASH - COULD DRIVE NEXT LEG OF URANIUM PRICE RALLY

Uranium Price Update & Sector Commentary: Close of August 31st, 2022

Uranium spot price rose more than 10% since our last weekly, notching a big gain (+5%) yesterday, as headlines with positive sector fundamental (demand) implications continue to roll in at an increasing frequency. It's worth noting that spot uranium is up >9% since Friday of last week despite the absence of buying by the Sprott Physical Uranium Trust (aka SPUT, U.UN-T (C\$), U.U-T (US\$), Not Rated). SPUT appears to have around US\$56M in liquidity. The Trust bought 200 klb U₃O₈ last week but hasn't made a purchase since last Thursday. This week it has issued more than 2 million units, and the added dry powder certainly has the potential to amplify the strength in uranium prices we are seeing daily of late. With month-end prices reported by UxC on Monday, the up-cycle price dynamic that emerged post the Russian invasion of Ukraine persists. Spot conversion prices remain at a >43% premium to term, while term enrichment (SWU) sits at a 50% premium to spot, as the market seeks long-term security of enrichment services. On that note, we saw milestone news of progress on the Global Laser Enrichment (GLE) technology development front this week as Silex Systems completed an 8-month test program on the first full-scale module of the tech (GLE is a 49%/51% JV between Cameco, CCO-T, not rated and Silex Systems, SLX-AU, not rated). On the demand side, Hungary announced the granting of construction licenses for two Russian design VVER-1200 reactor units. South Korea announced it expects nuclear power to comprise 33% of its total power generation by 2030, up from 27.4% last year. France was also in the news talking about the necessity of nuclear in efforts to decouple gas and electricity prices, where the French Economy Minister was quoted as saying "there is no energetic transition without nuclear energy."



Uranium required and cost to make 1kg of EUP (4.5% U^{235}): Mine/plant output of 26.7 lb U₃O₈ (\$1,415 cost) -> Conversion to UF₆ (\$388 cost) -> delivers 10.22 kgU as UF₆ (\$1,803 cumulative cost) -> enrichment: 6.23 SWU (\$561 cost) -> delivers 1kg EUP (\$2,364 cumulative cost). (US\$, spot U_3O_8 , tails assay of 0.30% U^{235})

Uranium Equities - News

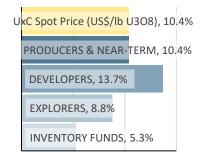
- Traction Uranium Corp. (TRAC-CSE, Not Rated): Provides research program update at Hearty Bay – link to Aug. 30th PR
- ALX Resources Corp. (AL-V, Not Rated): Receives drill results from the Gibbons Creek Uranium Project— link to Aug.25th PR
- 92 Energy Limited (92E-AU, Not Rated): Released assay results from drilling at its GMZ uranium discovery— link to Aug. 25th PR
- enCore Energy Corp. (EU-V, Not Rated): Announced the installation of all wellfield monitor wells for its Rosita Extension PAA – <u>link to Aug. 25th PR</u>
- Silex Systems Limited (SLX-AU, Not Rated): Completed a test program at its SILEX uranium laser enrichment project— link to Aug. 31st PR
- Global Atomic Corporation (GLO-T, Not Rated): Provided a project update and further drilling results from its Dasa Uranium Project—link to Aug. 31st PR

UxC U₃O₈ Prices (USD per pound) SPOT (1-day Δ): \$53.00 (+5.0%) (1-week Δ): (+10.4%) (1-month Δ): (+9.8%)

3-year (1-week Δ): \$54.50 (+0.5%)
5-year (1-week Δ): \$57.75 (+0.4%)
LT (@August 29th, 1-mth Δ): \$50.00 (unch.)

⁺ UxC Spot Price published daily, 3y, 5y pricing published weekly on Monday. UxC Long-Term price published last Monday of month.

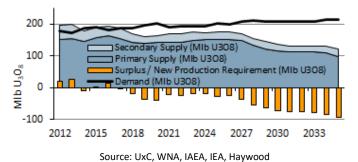
Performance - Aug. 24, 2022 to Aug. 31, 2022



0.0% 5.0% 10.0% 15.0% Source: UxC, CapitallQ, Haywood



Uranium Sector - Haywood Supply / Demand Model & Uranium Price History & Forecast (annual average)



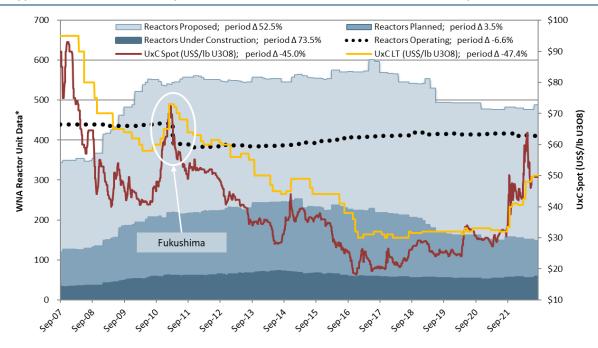
Commodity Price History	2015	2016	2017	2018	2019	2020	2021
Spot price (US\$/lb U ₃ O ₈)	\$37	\$26	\$22	\$25	\$26	\$29	\$40
Long Term price (US\$/lb U ₃ O ₈)	\$47	\$40	\$31	\$31	\$32	\$32	\$35
Commodity Price Forecast	2022	2023	2024	2025	2026	2027	2027
Spot price (US\$/lb U ₃ O ₈)	\$47	\$55	\$64	\$65	\$65	\$65	\$65
Long Term price (US\$/lb U ₃ O ₈)	\$55	\$63	\$70	\$65	\$65	\$65	\$65

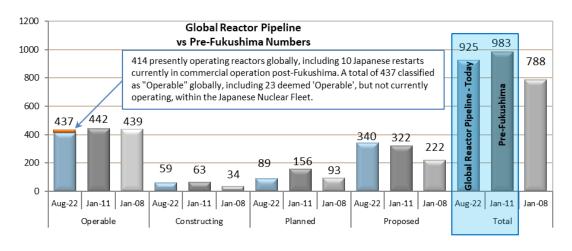
Source: UxC history, Haywood Forecast

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Global Civil Nuclear Reactor Pipeline Evolution

Figure 1. Upper: Global Nuclear Reactor Pipeline vs Uranium Price; Lower: Global Nuclear Reactor Pipeline - Current vs Pre-Fukushima





Source: WNA, UxC, Haywood Securities



Uranium Sector Top Picks & Covered Names

NexGen (NXE-T, Rating: BUY, Target: \$7.50)

Our Take: NXE remains a top pick in the uranium space due to the disruptive potential of the Arrow deposit, with its massive scale and strong economics. Link to Most Recent Report

- Top Asset: We view the Arrow deposit as 'the best undeveloped uranium asset globally and highly strategic'. The February 2021 Feasibility Study outlined a >21 Mlb U₃O₈ per year, 10-year mine operation with an after-tax NPV_{8%} of \$3.47B at US\$50/lb uranium.
- Take-Out Candidate: We believe that it is critical for major producers to control this deposit because of its disruptive potential and that this is the strategic key to preserving the value of existing deposits and maintaining the ability to affect price with output decisions.
- Ultra Low-Cost: The Feb. 2021 Arrow Feasibility Study suggests cash operating costs of US\$5.69/lb implying an industry leading margin for a tier 1 scale operation.
- Catalysts: H2/2022 results of field programs, including updates on FEED work and results of field and exploration activities.
- Cash of \$164 million

Denison Mines (DML-T, Rating: BUY, Target: \$2.90)

Our Take: The core strength of Denison remains its ability to leverage its technical team and knowledge gained in studying ISR and its applicability to unconformity-hosted uranium deposits in the Basin. Denison's unique (to the Athabasca) plan to in-situ leach the Phoenix deposit is perceived as technically challenging, but with a very high potential reward, with a PFS-supported cost profile among the lowest in the world, due to the extremely high grades at Phoenix. Link to Most Recent Report

- De-risking Phoenix with freeze-wall trade-off study. Late 2020, Denison announced the results of a trade-off study examining the use of 'freeze walls' and sequential ISR mining phases to replace the 'freeze dome' outlined for the Phoenix deposit in the Wheeler River project Preliminary Feasibility Study (PFS). The proposed freeze wall approach is simpler and offers more control in each mining cell/phase and improves the risk profile on the mine plan.
- New approach should mean lower CAPEX hurdle. Mining of Phoenix via ISR was already a very attractive economic proposition, with initial CAPEX in the PFS at <\$325M and OPEX of US\$3.33/lb U₃O₈. The trade-off study is preliminary but lower initial CAPEX is supportable as the phased freeze wall approach is simpler and less costly to initial production.
- Catalysts: H1/2022 Further technical work to de-risk the ISR mining approach to Phoenix at Wheeler River in support of a future full Feasibility Study (estimated late 2022 delivery) for Wheeler River integrating the extensive technical advancements made since the 2018 PFS. 2022 Exploration results seeking satellite deposits at Wheeler River; and Studies for other potentially ISR amenable projects similar to THT/Waterbury.
- Cash of ~\$64 million, plus 2.5 Mlb U₃O₈ as long-term investment.

Other Covered Names

- Energy Fuels Inc. (EFR-T, UUUU-US) Rating: Buy; Target: U\$\$6.75 Target (last report)
- ♦ IsoEnergy. (ISO-V) Rating: Buy; Target: \$7.00 (last report)
- Uranium Energy Corp. (UEC-US) Rating: Buy; Target: US\$6.60 Target (last report)

Coverage Universe

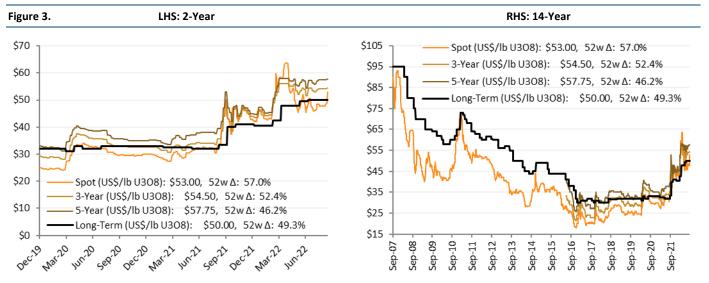
Figure 2. Uranium Sector Haywood Coverage

Company	Ticker	Analyst	Analyst	Analyst	Last	Shares	MC	EV	Target	Return	Rating	NAVPS	CFPS	(US\$)
		Allalyst	Price (C\$)	O/S (M)	(C\$M)	(C\$M)	(C\$)	(%)	Ratilly	(US\$)	2022E	2023E		
Denison Mines	DML-T	CH	\$1.86	818	\$1,521	\$1,455	\$2.90	56%	BUY	C\$2.85	(\$0.01)	(\$0.01)		
Energy Fuels	UUUU-US	CH	US\$8.12	158	US\$1,280	US\$1,560	US\$6.75	-17%	BUY	\$6.73	(\$0.02)	\$0.20		
IsoEnergy Ltd.	ISO-V	CH	\$4.47	107	\$478	\$486	\$7.00	57%	BUY	C\$7.02	(\$0.07)	(\$0.07)		
NexGen Energy	NXE-T	CH	\$5.84	479	\$2,800	\$2,727	\$7.50	28%	BUY	C\$7.50	(\$0.03)	(\$0.03)		
Uranium Energy	UEC-US	CH	US\$4.52	335	US\$1,513	US\$1,491	US\$6.60	46%	BUY	\$6.55	(\$0.08)	(\$0.08)		

Source: Haywood Securities



Uranium Price Charts



Source: UxC, Haywood Securities

Uranium Equity Relative Performance Charts (1-year, indexed to 100)

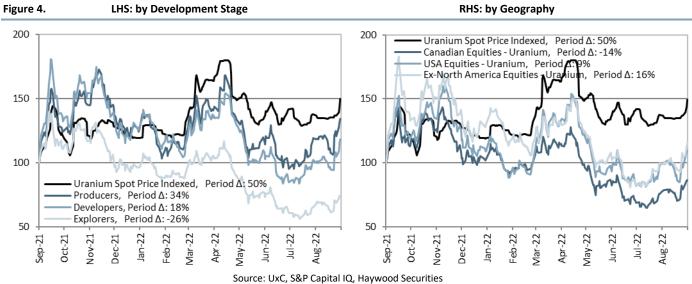




Figure 5. Uranium Sector Comps with 1-Week Performance Data

		Consensus	Targets				Comps - EV/lb		NAV Co	mps	Cas	h Flow Co	mps	
		IBES		Shares	Market	Enterprise	Total Reserves		IBES			P/CFPS		Performance
Company (Ticker)		Consensus	Implied	Outst.	Capitalization	Value (USD)	& Resources	USD EV/lb	Consensus	Price /				Aug. 24, 2022
Haywood Covered Names bold	Share Price	Target	Return	(millions)	(millions)	(millions)	(M lb)	Resource	NAV	Nav	2021	2022	2023	to Aug. 31, 202
Cameco Corporation (CCO-T)	\$38.28	\$44.08	15%	398	\$15,252	\$11,376	1078.5	\$10.55	\$28.74	1.33x	75.9x	37.8x	20.3x	8.5%
(azatomprom (KAP-LSE)	\$31.52	\$36.91	17%	259	\$8,175	\$8,265	1339.5	\$6.17	\$34.50	0.91x	12.0x	14.7x	8.6x	4.2%
aladin Energy (PDN-AU)	\$0.85	\$0.71	(17)%	2,978	\$2,531	\$1,566	381.7	\$4.10	\$1.17	0.73x			5312.5x	14.9%
ranium Energy (UEC-US)	\$4.52	\$6.53	44%	335	\$1,513	\$1,491	304.9	\$4.89	\$5.73	0.79x				6.1%
nergy Fuels (UUUU-US)	\$8.12	\$9.70	19%	158	\$1,280	\$1,193	119.6	\$9.98	\$8.83	0.92x			27.5x	11.2%
oss Energy (BOE-AU)	\$2.72	\$3.08	13%	353	\$959.0	\$621.6	71.4	\$8.71	\$3.20	0.85x				8.6%
nergyResources (ERA-AU)	\$0.26	*****		3,691	\$959.8	\$543.5	302.3	\$1.80	***					5.5%
r-Energy Inc. (URE-T)	\$1.82	\$4.08	124%	223	\$405.5	\$279.7	41.3	\$6.77	\$3.69	0.49x			22.8x	6.9%
otus Resources (LOT-AU)	\$0.30	\$0.32	8%	1,209	\$356.6	\$235.5	44.2	\$5.33	\$0.32	0.92x			ZZ.OX	27.5%
eninsula Energy (PEN-AU)	\$0.20	\$0.35	77%	997	\$199.5	\$113.4	53.7	\$2.11	\$0.40	0.50x		140.8x		24.2%
Froup Average - Producers	Ψ0.20	Ψ0.55	1170	331	ψ199.5	ψ113. 4	33.7	\$6.04	Ψ0.40	0.83x	44.0x	64.5x	1078.3x	10.4%
exGen Energy (NXE-T)	\$5.84	\$9.47	62%	479	\$2,800	\$2,085	337.8	\$6.17	\$8.55	0.68x				4.4%
enison Mines (DML-T)	\$1.86	\$2.20	19%	818	\$1,521	\$1,112	207.5	\$5.36	\$2.64	0.71x				10.5%
lobal Atomic (GLO-T)	\$4.12	\$6.50	58%	178	\$732.4	\$549.2	161.1	\$3.41	\$6.47	0.64x				11.1%
eep Yellow (DYL-AU)	\$1.17			732	\$852.5	\$488.1	392.2	\$1.24						51.3%
ssion Uranium (FCU-T)	\$0.83	\$1.25	51%	681	\$565.6	\$404.7	135.2	\$2.99	\$1.39	0.60x				4.3%
nerican Lithium (LI-V)	\$2.50	\$9.42	277%	208	\$519.2	\$384.9	123.4	\$3.12	\$11.00	0.23x				(14.2)%
oEnergy Ltd. (ISO-V)	\$4.47	\$6.50	45%	107	\$477.6	\$372.0	51.3	\$7.26	\$6.62	0.68x				14.3%
Core Energy (EU-V)	\$1.45	\$2.75	90%	322	\$467.2	\$333.7	129.6	\$2.58						2.0%
annerman Energy (BMN-AU)	\$2.36	\$2.96	25%	150	\$353.1	\$229.0	238.8	\$0.96						28.9%
oviEx Uranium (GXU-V)	\$0.31	\$0.71	131%	593	\$180.7	\$141.8	201.7	\$0.70	\$0.75	0.41x				(0.8)%
orsys Metals (FSY-T)	\$0.81			195	\$158.1	\$107.2	127.0	\$0.84						18.2%
aramide Resources (LAM-T)	\$0.63	\$0.80	27%	208	\$131.0	\$97.6	122.7	\$0.80						18.0%
Cap Energy (ACB-AU)	\$0.09			1,232	\$110.9	\$72.5	190.6	\$0.38						29.6%
erkeley Energia (BKY-AU)	\$0.34			446	\$151.6	\$52.2	89.4	\$0.58						4.0%
estern Uranium (WUC-L)	\$1.89			43	\$81.9	\$51.5	52.4	\$0.98						14.4%
oro Energy (TOE-AU)	\$0.02			3,897	\$77.9	\$42.5	90.9	\$0.47						32.5%
nfield Energy (AEC-V)	\$0.09	\$0.25	194%	624	\$53.0	\$34.4	22.5	\$1.52	\$0.42	0.20x				12.5%
nergy Metals (EME-AU)	\$0.17	ψ0.20	13470	210	\$35.6	\$16.2	57.6	\$0.28	ψ0.42	0.201				5.6%
roup Average - Developers	ψ0.17			210	ψ33.0	ψ10.2	37.0	\$2.20		0.52x				13.7%
meap menage _ consepant								72.20		0.00				10 //
Iligator Energy (AGE-AU)	\$0.08			3,303	\$257.6	\$136.5								36.0%
onsolidated Uranium (CUR-V)	\$2.33	\$4.15	78%	77	\$179.0	\$117.7	89.6	\$1.31						3.2%
evate Uranium (EL8-AU)	\$0.58			275	\$159.8	\$97.7	137.5	\$0.71						42.3%
evEx Resources (DEV-AU)	\$0.41			360	\$147.4	\$87.8								16.4%
ega Uranium (MGA-T)	\$0.28			358	\$100.1	\$65.3								18.2%
kyharbour Resources (SYH-V)	\$0.53	\$0.98	84%	144	\$76.3	\$55.1	7.0	\$7.92	\$1.01	0.52x				28.3%
aselode Energy (FIND-V)	\$0.90			86	\$77.7	\$51.2								2.7%
opia Rare (API-L)	\$0.53			123	\$65.3	\$43.9	55.8	\$0.79						36.6%
alOre Metals (VO-V)	\$0.39	\$1.05	173%	154	\$59.2	\$43.0	43.5	\$0.99						(4.5)%
imut Exploration (AZM-V)	\$0.89	\$2.95	231%	82	\$73.2	\$40.6			\$2.66	0.33				0.4%
anAlaska Uranium (CW-V)	\$0.53			102	\$54.0	\$30.1								(6.1)%
urania Resources (ARU-V)	\$0.59			54	\$31.8	\$28.6								(9.9)%
P. Energy (92E-AU)	\$0.65			88	\$57.1	\$27.8								46.8%
ue Sky (BSK-V)	\$0.19			200	\$36.9	\$26.3	22.7	\$1.16						2.0%
urepoint Uranium (PTU-V)	\$0.09			369	\$33.2	\$22.0								5.1%
orum Energy (FMC-V)	\$0.17			171	\$29.0	\$19.6	0.6	\$33.11						(0.8)%
lobex Mining (GMX-T)	\$0.80			56	\$44.5	\$19.0		,						(8.8)%
TI Energy (GTR-AU)	\$0.02			1,505	\$30.1	\$15.3								32.5%
andard Uranium (STND-V)	\$0.02			1,303	\$18.5	\$13.8								(8.1)%
ssion 3.0 (FUU-V)	\$0.13			297	\$32.6	\$13.0								4.0%
incourt Energy (AAZ-V)	\$0.08				\$32.0 \$18.2									
• , ,				227		\$5.8								13.4%
X Resources (AL-V)	\$0.04			208	\$8.3	\$4.6	20.0	60.40						(11.8)%
auldron Energy (CXU-AU)	\$0.01			535	\$5.4	\$3.6	30.9	\$0.12						(0.6)%
orthern Uranium (UNO'H-V)	\$0.03			162	\$4.1	\$3.1								(0.8)%
arku Resources (TKU-V)	\$0.05			79	\$4.0	\$3.1								(33.8)%
ternational Prospect (IZZ-V)	\$0.05			40	\$2.0	\$1.4	0.6	\$2.36						(23.7)%
rupa Minerals (AVU-V)	\$0.04			55	\$2.2	\$1.4								13.4%
Terra Resources (XTT-V)	\$0.02			99	\$2.0	\$1.2								32.3%
anadian Energy (VEC-V)	\$0.03			42	\$1.3	\$1.2								48.8%
ravan Minerals (UVN-V)	\$0.16			5	\$0.8	\$0.3								(0.8)%
ros Resources (ERC-V)	\$0.07			98	\$6.4	(\$4.3)								(0.8)%
roup Average - Explorers								\$5.38						8.8%
ENTORY FUNDS														
prott Physical (U.UN-T)	\$16.49	\$23.50	43%	233	\$2,942	\$3,041	57.6	\$52.83						4.3%
ellow Cake (YCA-LN)	£4.21	£5.30	26%	183	£770.1	\$760.8	19.8	\$38.37						6.2%
			_0,0										—— I	5.3%
ALTY COMPANIES														

Source: S&P Capital IQ, Bloomberg, Haywood Securities, Company Reports



Figure 6. Uranium Equities β eta to Uranium price, plus $\beta_{equity/uranium}/\sigma_{equity}$

Ticker	Company	β _{uranium} (Last 1-year, Weekly Simple Returns)	$eta_{\sf uranium}/\sigma_{\sf equity}$	Absolute Return (%)	Rank Beta	Rank	Rank Absolute
TSXV:UNO.H	Northern Uranium Corp.	1.80	6.895	25%	1	P _{uranium} / U _{equity}	, Return 20
ASX:ACB	A-Cap Energy Limited	1.61	6.658	46%	2	29	9
ASX:ACB ASX:BMN	Bannerman Energy Ltd	1.60	9.431	27%	3	7	18
ASX:TOE	Toro Energy Limited	1.50	8.415	0%	4	10	31
ASX:AGE	Alligator Energy Limited	1.41	9.639	72%	5	4	3
ASX:EL8	Elevate Uranium Ltd	1.40	9.627	42%	6	5	12
ASX:PEN	Peninsula Energy Limited	1.36	10.736	13%	7	1	24
TSXV:URC	Uranium Royalty Corp.	1.28	8.214	7%	8	13	27
US:UEC	Uranium Energy Corp.	1.18	7.363	64%	9	19	4
ASX:DYL	Deep Yellow Limited	1.17	9.186	33%	10	8	16
TSX:FSY	Forsys Metals Corp.	1.12	7.377	(8%)	11	18	36
ASX:92E	92 Energy Limited	1.11	8.298	97%	12	11	1
ASX:LOT	Lotus Resources Limited	1.08	8.253	40%	13	12	13
ASX:GTR	GTI Energy Ltd	1.06	7.660	(14%)	14	16	40
ASX:BOE	Boss Energy Limited	1.06	9.489	87%	15	6	2
TSXV:SYH	Skyharbour Resources Ltd.	1.03	6.543	9%	16	31	25
TSXV:GXU	GoviEx Uranium Inc.	1.03	6.622	4%	17	30	29
TSX:URE	Ur-Energy Inc.	1.00	8.135	4%	18	14	28
TSXV:AEC	Anfield Energy Inc.	1.00	7.341	(39%)	19	20	48
TSXV:ISO	IsoEnergy Ltd.	0.97	5.739	27%	20	43	19
TSX:FCU	Fission Uranium Corp.	0.97	7.171	28%	21	23	17
TSXV:FMC	Forum Energy Metals Corp.	0.97	6.510	(58%)	22	32	54
TSXV:AAZ	Azincourt Energy Corp.	0.96	7.231	(54%)	23	22	53
TSXV:FUU	Fission 3.0 Corp.	0.96	6.899	(16%)	24	25	43
CNSX:WUC	Western Uranium & Vanadium		6.706	(42%)	25	28	49
TSX:EFR	Energy Fuels Inc.	0.94	7.092	43%	26	24	10
TSXV:EU	enCore Energy Corp.	0.91	7.871	(16%) 53%	27 28	15 36	42 8
TSXV:FIND ASX:PDN	Baselode Energy Corp.	0.89 0.88	6.285 8.457	42%	29	9	11
TSX:MGA	Paladin Energy Ltd Mega Uranium Ltd.	0.83	6.179	0%	30	38	31
ASX:EME	Energy Metals Limited	0.83	7.235	(5%)	31	21	34
TSXV:CVV	CanAlaska Uranium Ltd.	0.77	4.856	(11%)	32	46	38
AIM:YCA	Yellow Cake plc	0.77	10.641	59%	33	3	5
TSX:DML	Denison Mines Corp.	0.74	6.505	8%	34	33	26
TSX:U.U	Sprott Physical Uranium Trust F		10.729	36%	35	2	14
TSX:GLO	Global Atomic Corporation	0.71	6.206	23%	36	37	22
TSXV:BSK	Blue Sky Uranium Corp.	0.70	6.122	(14%)	37	39	39
TSXV:AVU	Avrupa Minerals Ltd.	0.69	5.158	(50%)	38	44	52
TSX:NXE	NexGen Energy Ltd.	0.67	6.431	(10%)	39	35	37
TSXV:VEC	Vanadian Energy Corp.	0.66	3.996	(67%)	40	49	59
ASX:ERA	Energy Resources of Australia Li	0.62	6.854	(6%)	41	27	35
ASX:BKY	Berkeley Energia Limited	0.60	4.822	19%	42	47	23
TSXV:PTU	Purepoint Uranium Group Inc.	0.58	4.907	(18%)	43	45	44
TSXV:XTT	X-Terra Resources Inc.	0.58	4.070	(79%)	44	48	62
TSXV:CUR	Consolidated Uranium Inc.	0.58	5.778	3%	45	42	30
TSX:CCO	Cameco Corporation	0.57	6.489	55%	46	34	7
TSXV:VO	ValOre Metals Corp.	0.56	5.794	35%	47	41	15
TSXV:IZZ	International Prospect Venture	0.52	3.600	(71%)	48	51	60
KAS:KZAP	JSC National Atomic Company K		7.387	24%	49	17	21
TSXV:STND	Standard Uranium Ltd.	0.51	3.969	(61%)	50	50	55
TSX:GMX	Globex Mining Enterprises Inc.	0.48	5.831	(21%)	51	40	45
ASX:DEV	DevEx Resources Limited	0.47	3.031	56%	52	56	6
TSXV:UVN	Uravan Minerals Inc.	0.39	3.250	(64%)	53	54	57
TSXV:LI	American Lithium Corp.	0.31	2.396	(15%)	54	58	41
TSXV:AL	ALX Resources Corp.	0.31	2.819	(47%)	55	57	51
TSXV:ERC	Eros Resources Corp.	0.30	3.262	(24%)	56	53	46
ASX:LAM	Laramide Resources Ltd.	0.28	3.047	(5%)	57	55	33
CNSX:API	Appia Rare Earths & Uranium Co		1.898	(38%)	58	60	47
ASX:CXU	Cauldron Energy Limited	0.26	2.151	(66%)	59	59	58
TSXV:AZM	Azimut Exploration Inc.	0.25	3.543	(61%)	60	52 61	56 61
TSXV:ARU	Aurania Resources Ltd.	0.05	0.452	(78%)	61	61	61
TSXV:TKU	Tarku Resources Ltd.	0.00	0.013	(44%)	62	62	50

Source: UxC, CapitallQ, Bloomberg, Haywood



Figure 7. Uranium Comps Performance with Short Interest / Days to Cover

Index	Ticker	Short Interest / Days to Cover	1-Day ∆ (%)	5-Day ∆ (%)	10-Day Δ (%)	30-Day ∆ (%)	90-Day Δ (%)	YTD ∆ (%)	12-Mth Δ (%)	2-year (%)
S&P/TSX COMPOSITE INDEX	.ПТ-Т		(1.7)%	(4.4)%	(4.9)%	(2.6)%	(8.6)%	(10.5)%	(8.2)%	14.1%
S&P/TSX VENTURE COMPOSITE	.JX-T		(3.1)%	(4.2)%	(3.7)%	(5.5)%	(14.1)%	(34.1)%	(31.8)%	(18.0)9
S&P/TSX 60 INDEX	T.XLX-T		(1.6)%	(4.4)%	(5.2)%	(2.5)%	(8.7)%	(10.8)%	(7.3)%	14.9%
CANASCO CORPORATION	CCO T	4.40/ / 2.5	(4.0)0/	0.40/	27.00/	45.00/	40.20/	25.40/	FF 20/	140.60
CAMECO CORPORATION	CCO-T	1.1% / 2.5	(1.9)%	8.1%	27.0%	16.0%	19.3%	36.1%	55.3%	148.6%
(AZATOMPROM S	KAP-LN	4.00/ / 6.0	(6.4)%	(4.8)%	4.2%	5.1%	42.00/	(19.7)%	2.6%	87.9%
PALADIN ENERGY L	PDN-AU	4.9% / 6.9	(1.2)%	6.3%	20.9%	17.5%	12.8%	(4.5)%	42.4%	406.09
ENERGY FUELS INC	UUUU-US	15.6% / 11.2	(6.8)%	7.5%	33.0%	13.0%	15.4%	(0.8)%	36.4%	298.49
URANIUM ENERGY CORP	UEC-US	14.5% / 7.2	(7.7)%	6.4%	23.4%	0.0%	5.8%	24.5%	62.9%	262.69
ERA FPO 'A	ERA-AU	0.0% / 0.2	(3.8)%	(2.0)%	0.0%	0.0%	(15.3)%	(26.5)%	(5.7)%	47.1%
JR ENERGY INC	URE-T	0.5% / 2.7	(4.9)%	9.5%	26.3%	10.9%	6.1%	12.3%	4.2%	121.89
OTUS RESOURCES	LOT-AU	1.1% / 2.9	0.0%	18.0%	37.2%	28.3%	3.5%	(4.8)%	40.5%	168.29
PENINSULA ENERGY	PEN-AU	0.8% / 1.4	(10.0)%	5.9%	16.1%	(5.3)%	(5.3)%	(10.0)%	12.5%	160.9
EXGEN ENERGY LTD	NXE-T	1.7% / 3.7	(5.7)%	3.6%	18.0%	1.3%	(6.9)%	(0.5)%	(11.4)%	123.1
ENISON MINES CORPORATION	DML-T	1.1% / 3.1	(6.5)%	10.8%	27.9%	13.0%	12.3%	0.0%	7.4%	135.1
MERICAN LITHIUM CORP	LI-V	0.3% / 0.8	(7.6)%	(12.2)%	(19.5)%	2.7%	(12.8)%	(45.8)%	(16.0)%	53.09
LOBAL ATOMIC CORPORATION	GLO-T	0.4% / 1.4	(6.8)%	7.6%	30.2%	7.6%	25.1%	(8.4)%	20.8%	405.3
OSS EN FPO	BOE-AU	0.9% / 1.0	(3.7)%	6.1%	12.9%	11.5%	12.0%	16.4%	87.1%	289.9
ISSION URANIUM CORP	FCU-T	0.6% / 1.9	(7.2)%	4.1%	20.3%	2.7%	1.3%	(1.3)%	26.2%	62.19
NCORE ENERGY CORP	EU-V	0.1% / 0.7	(8.3)%	0.8%	10.8%	(8.3)%	9.0%	(16.9)%	(16.9)%	280.0
EEP YELLOW	DYL-AU	0.6% / 1.6	(8.2)%	18.2%	49.7%	45.6%	46.6%	24.4%	32.9%	365.2
ANNERMAN ENERGY	BMN-AU	0.5% / 1.9	(3.0)%	13.9%	33.5%	9.6%	1.8%	(15.2)%	27.2%	487.2
OVIEX URANIUM INC	GXU-V	0.4% / 1.5	(4.9)%	7.4%	13.7%	0.0%	(6.5)%	(18.3)%	1.8%	107.1
ORSYS METALS CORP	FSY-T	0.4% / 1.5	(4.9)%	7.4%	22.4%	(4.1)%	22.4%	(16.5)%	(11.3)%	343.8
ARAMIDE RESOURCES LTD	LAM-T									80.69
		0.9% / 4.1	(11.1)%	12.0%	27.3%	5.7%	1.8%	(21.1)%	(6.7)%	
ERKELEY ENERGIA -CAP ENERGY	BKY-AU	0.0% / 4.2	2.9%	1.4%	9.4%	2.9%	2.9%	52.2%	18.6%	(60.0)
	ACB-AU	0.1% / 0.2	(1.1)%	18.7%	36.9%	34.8%	1.1%	(38.6)%	53.4%	345.0
/ESTERN URANIUM & VANADIUM CORP	WUC-L	2.00/ / 2.0	(7.9)%	10.1%	25.2%	5.5%	16.0%	(7.0)%	(41.8)%	126.0
ORO ENERGY	TOE-AU	0.0% / 0.0	(10.0)%	(0.0)%	20.0%	20.0%	(0.0)%	(18.2)%	(0.0)%	28.69
NFIELD ENERGY INC	AEC-V	0.2% / 0.6	(5.9)%	6.7%	23.1%	0.0%	(15.8)%	(15.8)%	(42.9)%	23.19
NERGY MET FPO	EME-AU		8.8%	8.8%	15.6%			(31.5)%	(5.1)%	
SOENERGY LTD	ISO-V	1.7% / 3.8	(9.4)%	11.6%	28.6%	19.1%	19.5%	8.3%	24.6%	226.69
LLIGATOR ENERGY	AGE-AU	2.2% / 3.6	(14.1)%	11.7%	31.4%	21.8%	(5.6)%	21.8%	71.8%	1,240.0
ONSOLIDATED URANIUM INC	CUR-V	0.1% / 0.4	(3.0)%	1.3%	4.6%	13.0%	5.6%	(21.3)%	5.6%	264.5
LEVATE URANIUM	EL8-AU	1.7% / 2.4	(0.9)%	21.1%	53.3%	29.2%	15.0%	23.7%	42.0%	584.5
EVEX RESOURCES	DEV-AU	0.2% / 0.5	(4.9)%	1.3%	6.8%	36.8%	11.4%	(20.4)%	56.0%	81.49
1EGA URANIUM LTD	MGA-T	0.5% / 3.6	(7.1)%	8.3%	33.3%	10.6%	6.1%	2.0%	(1.9)%	85.79
KYHARBOUR RESOURCES LTD	SYH-V	0.1% / 0.2	(6.6)%	16.5%	37.5%	12.5%	11.2%	2.1%	7.6%	135.7
ASELODE ENERGY CORP	FIND-V	0.2% / 0.5	(7.8)%	3.8%	20.3%	7.8%	(23.1)%	2.5%	50.9%	118.4
ZIMUT EXPLORATION INC	AZM-V	0.0% / 0.7	(1.1)%	(3.3)%	(6.4)%	(3.3)%	(31.8)%	(46.7)%	(61.9)%	(47.9)
PPIA RARE EARTHS & URANIUM CORP	API-L	0.070 / 0.7	(1.9)%	35.1%	60.0%	26.8%	33.3%	(10.3)%	(38.1)%	44.49
ALORE METALS CORP	VO-V	0.0% / 0.0	(5.2)%	(5.2)%	(3.9)%	(11.0)%	(9.9)%	(33.6)%	35.2%	14.19
LUE SKY URANIUM CORP	BSK-V	1.2% / 7.4	0.0%	8.8%	32.1%	(2.6)%	8.8%	(5.1)%	(14.0)%	37.09
ANALASKA URANIUM LTD	CVV-V				8.7%		20.5%	13.6%		112.8
LOBEX MINING ENTERPRISES INC	GMX-T	0.2% / 0.8 0.1% / 0.6	(5.7)% 1.3%	(3.8)%	(5.8)%	(3.8)%	(33.6)%	(26.4)%	(9.1)% (21.4)%	112.8
				(5.8)%		(9.0)%				
URANIA RESOURCES LTD ORUM ENERGY METALS CORP	ARU-V	0.0% / 0.3	(3.4)%	(6.6)%	(10.9)%	(3.4)%	(18.6)%	(51.3)%	(79.0)%	(87.0)
	FMC-V	0.0% / 0.1	(2.9)%	(0.0)%	10.0%	(0.0)%	22.2%	(2.9)%	(58.8)%	3.1%
UREPOINT URANIUM GRP INC	PTU-V	0.8% / 4.6	(5.6)%	(5.6)%	30.8%	6.2%	21.4%	(0.0)%	(22.7)%	41.79
2 ENERGY	92E-AU	7.9% / 3.0	(12.3)%	12.9%	54.1%	22.6%	0.0%	(16.2)%	96.6%	
ZINCOURT ENERGY CORP	AAZ-V	0.2% / 0.4	(6.3)%	15.4%	15.4%	7.1%	(21.1)%	(57.1)%	(54.0)%	0.0%
SSION 3.0 CORP	FUU-V	0.0% / 0.2	(4.5)%	0.0%	23.5%	5.0%	0.0%	(52.3)%	(16.0)%	16.79
TI ENERGY	GTR-AU		(10.0)%	5.9%	12.5%	12.5%	12.5%	(25.0)%	(5.3)%	(30.8
TANDARD URANIUM LTD	STND-V	1.2% / 3.6	(4.0)%	(4.0)%	4.3%	(7.7)%	0.0%	(44.2)%	(61.3)%	(52.9
LX RESOURCES CORP	AL-V	0.6% / 4.6	0.0%	14.3%	14.3%	0.0%	(11.1)%	(55.6)%	(46.7)%	(46.7
AULDRON ENERGY	CXU-AU		10.0%	10.0%	22.2%	10.0%	(21.4)%	(62.1)%	(65.6)%	(68.6
ARKU RESOURCES LTD	TKU-V	0.0% / 0.1	0.0%		(33.3)%	(9.1)%	(9.1)%	(37.5)%	(44.4)%	(58.3
ORTHERN URANIUM CORP	UNO'H-V		(20.0)%	0.0%	0.0%	0.0%	(20.0)%	(42.9)%		
ITERNATIONAL PROSPECT VENTURES LTD	IZZ-V	0.0% / 0.1	0.0%				(37.5)%	(68.8)%	(70.6)%	(60.0
VRUPA MINERALS LTD	AVU-V	0.0% / 0.0	0.0%	0.0%	33.3%	14.3%			(50.0)%	(75.0
-TERRA RESOURCES INC	XTT-V	0.0% / 0.7				(25.0)%	(62.5)%	(50.0)%	(78.6)%	(91.2)
ANADIAN ENERGY CORP	VEC-V	0.0% / 0.2				50.0%		(40.0)%	(66.7)%	(60.0
RAVAN MINERALS INC	UVN-V	0.1% / 0.2				3.2%	6.7%		(63.6)%	
ROS RESOURCES CORP	ERC-V	0.0% / 0.5								(35.0)
NTORY FUNDS										
PROTT PHYSICAL URANIUM TRUST	U.UN-T	1.7% / 3.5	(0.2)%	7.3%	21.9%	12.6%	4.4%	18.1%	37.0%	
ELLOW CAKE PLC	YCA-LN		(0.4)%	5.8%	20.0%	18.1%		23.2%	58.0%	90.49
ALTY COMPANIES										
					22.1%	(0.3)%				212.3

Source: UxC, CapitalIQ, Bloomberg, Haywood



Uranium Fuel Cycle Price Relationships

The charts below show that the price of uranium products (U_3O_8 , UF₆ and EUP) are tightly correlated (monthly % Δ) in the long term (RHS Figures 7 & 8). On the lower left chart of each Figure, we see that the cost of fuel services exhibit a much lower correlation with the monthly % change in uranium product (Conversion to UF₆ [R²=0.04] or SWU to EUP [R²=0.33]), owing to the fact that the uranium embedded in the product dominates value. Historically, conversion costs have made up an average of 10.5% of the cost of UF₆ (currently 21.5%), and SWU costs have made up an average of 26% of the price of EUP (currently 23.7%) (or, conversely, UF₆ historically makes ups up 74% of the cost of EUP).

UxC Spot U_3O_8 Price to Conversion Price 70.0% 60.0% 50.0% 40.0% 30.0% 20.0% v = 0.1044x + 0.0112 $UxC Spot U_3O_8 Price to UF_6 Price$ 30.0% y = 0.8855x + 0.0004R² = 0.9361 (30.0%) (20.0%) 25.0% 20.0% (20.0%) 15.0% (30.0%) 10.0% 5.0% UxC Conversion Price to UF₆ Price (10.0%) (5.0%) (10.0%) 25.0% (15.0%) 20.0% (20.0%) v = 0.1658x - 0.0016 15.0% $R^2 = 0.0433$ (25.0%) 10.0% (40.0%)20.0% 40.0% 60.0% 80.09 (5.0%) (10.0%) (20.0%) (25.0%)

Figure 8. U₃O₈ - Conversion - UF₆ Monthly Performance Correlations 2008 to August 31st, 2022 (at UxC spot prices)

Source: Haywood Securities Inc., UxC





Source: Haywood Securities Inc., UxC



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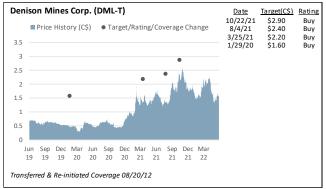
	Ticker	Company 1 2 3						6	7	8	9
TSX:	DML	Denison Mines Corp. X X									
TSX:	EFR	Energy Fuels Inc.			Χ						
TSXV	/:ISO	IsoEnergy ltd.			Χ						
TSX:	NXE	NexGen Energy Ltd.			Χ						
US:L	JEC	Uranium Energy Corp.			Χ						
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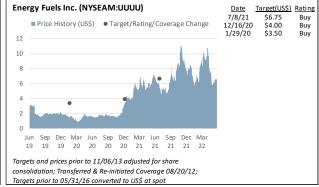
Distribution of Ratings (as of September 1, 2022)

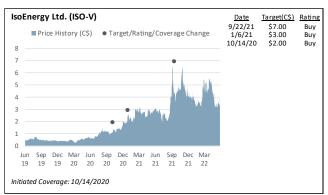
			IB Clients
	%	#	(TTM)
Buy	76.8%	76	70.0%
Hold	14.1%	14	20.0%
Sell	0.0%	0	0.0%
Tender	1.0%	1	5.0%
UR (Buy)	0.0%	0	0.0%
UR (Hold)	0.0%	0	0.0%
UR (Sell)	0.0%	0	0.0%
Dropped (TTM)	8.1%	8	5.0%



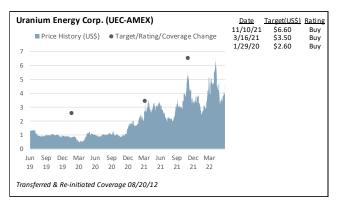
Price Chart, Rating and Target Price History (as of September 1, 2022)











B: Buy; H: Hold; S: Sell; T: Tender; UR: Under Review Source: Capital IQ and Haywood Securities

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