



Equity Research September 28, 2018

Metals & Minerals

Cameco Corp.

(CCO-T, CCJ-N) C\$14.80 | US\$11.34

The Clouds are Parting; Tax Court Rules in Favour of Cameco

Greg Barnes

Derick Ma, CFA, CPA, CA, (Associate)

Event

The Tax Court of Canada has ruled unequivocally in Cameco's favour in its dispute with the CRA for the 2003, 2005, and 2006 tax years.

Impact: POSITIVE

The Tax Court stated that "none of the transactions, arrangements or events in issue in the appeals was a sham". The Tax Court ruled that Cameco's marketing and trading structure involving foreign subsidiaries and the related transfer pricing methodology used for certain inter-company uranium sale and purchase agreements are in full compliance with Canadian laws for the tax years in question (2003, 2005, and 2006). Cameco will be making an application to the court to recover costs incurred over the course of this case, which are estimated at ~\$57mm.

The Tax Court indicated in its ruling that the Minister's transfer pricing adjustments for each of the taxation years under dispute shall be reversed. The Tax Court decision is not legally binding for other tax years in dispute; Cameco believes that there is nothing in the decision that would warrant a different outcome for the other tax years in question.

Cameco has been required under Canadian tax law to remit 50% of the potential cash taxes and penalties arising from the dispute; the company has prepaid (or otherwise secured) \$781mm (\$1.97/share) to the CRA, of which ~\$300mm (\$0.76/share) was in cash payments.

CRA has 30 days from the date of the decision to appeal to the Federal Court of Appeal. Cameco estimates that it would take about two years for the Federal Court of Appeal to hear and decide the matter. CRA cannot submit new evidence related to the case, according to Cameco management. Although an appeal is possible, the CRA could use the judgement to lobby the Canadian government for changes in existing tax laws governing transfer pricing.

TD Investment Conclusion

We are maintaining our BUY recommendation; our target price increases to \$20.00 (from \$18.00). We have elected to remove a negative ~\$600mm adjustment from our NAV-10% which approximated the CRA prepayments remaining to be paid by Cameco. Our NAV increases to \$13.44/share (from \$12.06/share). Our target is based on a 1.5x NAV multiple.

Recommendation:	BUY
Risk:	HIGH
12-Month Target Price:	C\$20.00 ↑ Prior: C\$18.00
12-Month Dividend (Est.):	C\$0.08
12-Month Total Return:	35.7%

Market Data (C\$)	
Current Price	C\$14.80
52-Week Range	\$9.90 - \$15.95
Mkt Cap (f.d.) (\$mm)	\$5,857.8
EV (\$mm)	\$6,864.5
Current Dividend	\$0.08
Dividend Yield	0.5%
Avg. Daily Trading Vol.	1,659,253

Financial Data (C\$)	
Fiscal Y-E	December
Shares O/S (f.d)(mm)	395.8
Float Shares (mm)	395.8
Net Debt/Total Cap	17.0%
NAVPS	\$13.44
Working Cap (\$mm)	\$1,674.4

Estimates (C\$)				
Year	2016A	2017A	2018E	2019E
EBITDA (\$mm)	581.0	568.0	480.0	305.0
EPS (f.d.)	0.36	0.15	0.28	(0.03)
CFPS (f.d)	0.99	1.31	1.00	0.41

EPS (f.d.) Quarterly Estimates (C\$)											
Year	2016A	2017A	2018E	2019E							
Q1	(0.02)	(0.07)	0.06	_							
Q2	(0.14)	(0.11)	(0.07)	_							
Q3	0.30	(0.13)	0.03	_							
Q4	0.23	0.46	0.27	-							

Valuations				
Year	2016A	2017A	2018E	2019E
EV/EBITDA	11.8x	12.1x	14.3x	22.5x
P/E (f.d.)	41.1x	98.7x	52.9x	nmf
P/CFPS (f.d)	14.9x	11.3x	14.8x	36.1x

Supplemental Data				
Year	2016A	2017A	2018E	2019E
U3O8 (US\$/lb)	27	22	26	35
U3O8 Prod. Mlb	27	24	10	9

All figures in C\$, unless otherwise specified



Company Profile

Cameco is one of the world's largest uranium producers. The company's flagship McArthur River and Cigar Lake mines are located in the Athabasca Basin in Saskatchewan, Canada.



Equity Research September 28, 2018

Details

The clouds are parting — Although an appeal of the Tax Court ruling is a distinct possibility, the unambiguous clarity of the decision is a significant win for Cameco, in our view; while the process may not be over, a significant overhang has been lifted from Cameco's share price and the company's balance sheet — particularly in light of the potential +\$2bln exposure the company could have faced if it had lost the decision. We anticipate that Cameco will end 2018 with cash plus short-term investments of +\$1.1bln and well-positioned to repay a \$500mm debenture due in September 2019. If the CRA does not appeal the Tax Court decision, we anticipate that \$303mm in cash prepayments that Cameco has made to-date would be returned to the company. In addition, Cameco would likely recover \$57mm in costs it has accumulated fighting the case.

Tepco arbitration expected in Q1/19 — Tepco unilaterally cancelled its uranium supply contract with Cameco in late-January 2017. The contract termination affected 9.3mmlb of uranium deliveries through 2028, worth ~\$1.3bln in revenue. In 2014, Cameco successfully defended a claim of 'force majeure' in arbitration with a utility citing "government regulations" as the reason for terminating its contract. The 2014 arbitration process took 30 months. Cameco received the NPV of the difference between the contracted price and the market price at that time — the net payment was ~\$66mm. The Tepco arbitration will take place in Q1/19; Cameco management has indicated that it believes that based on the net present value of the difference between the contract price and market prices, the arbitration award for the Tepco contract would be ~US\$682mm (\$887mm).

Potential upside to our NAV — Although we have elected to remove the remaining CRA prepayments from our net asset value, we have not gone so far as to include the potential cash awards that the company could receive that we have outlined above. The return of CRA cash prepayments plus the potential award of costs and the possible Tepco arbitration settlement combined totals ~\$1.25bln, or \$3.15/share — none of which is included in our net asset value.

Exhibit 1. Potential Upside to Our Net Asset Value

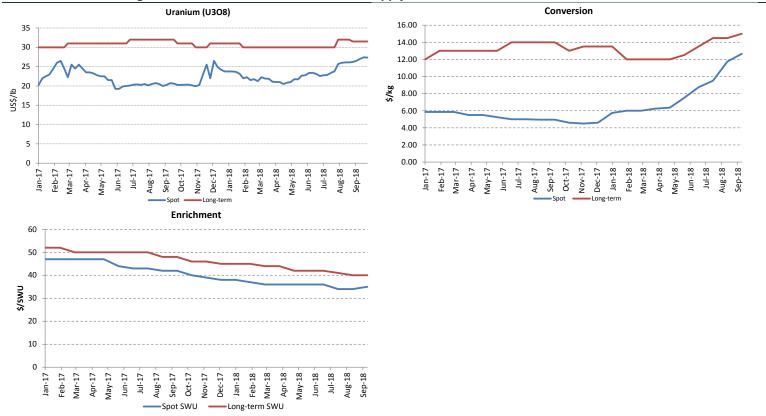
Return of Cameco's cash pre-payments on CRA's 2003-2011 notice of reassessments	C\$mm	303.0
Potential award of CRA's tax court legal cost	C\$mm	57.0
Potential Tepco arbitration award	C\$mm	887.0
Total potential cash receipts	C\$mm	1,247.0
Total potential cash receipts Total potential cash receipts	C\$mm C\$/sh.	1,247.0 3.15

Prices rising for all elements of the nuclear fuel supply chain — The spot uranium price has climbed 15% YTD and is close to the highest level in two years. Mine supply curtailments and producer and fund buying are largely behind the improved price levels. Based on our forecasts, the uranium market should be in a supply/demand deficit through 2021. Pricing for conversion services has increased sharply this year following the closure of the Converdyn UF6 conversion plant in late-2017. This week, Ux Consulting (UxC) reported that the spot SWU price ticked up by US\$1/SWU — the first price increase for SWU since 2010. UxC noted that there continues to be ample supplies of enriched uranium product (EUP); however, the spot SWU market may have found a bottom. The SWU spot price is an indicator of current demand for enrichment services. We believe that the improvement in pricing across the nuclear fuel supply chain is indicative of the broad improvements in the fundamentals in the uranium market and the steady increase in global nuclear generating capacity.



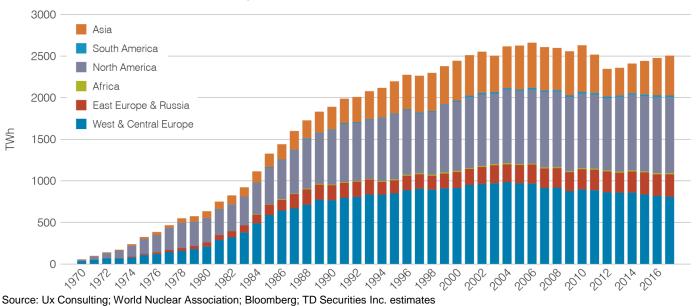
Equity Research September 28, 2018

Exhibit 2. Prices Rising for All Elements of the Nuclear Fuel Supply Chain



Source: Ux Consulting; TD Securities Inc. estimates

Exhibit 3. Global Nuclear Generation Output Increased for the Fifth Consecutive Year in 2017





Equity Research September 28, 2018

Exhibit 4. TD Securities Uranium Supply/Demand Model

	2010	2011	2012	2013	2014	2015	2016	2017	2018E	2019E	2020E	2021E	2022E	2023E
Mine Supply - Western World (mm lbs U3O8)														
Total Mine Supply - Western World	85	86	90	93	85	106	103	103	82	86	90	95	106	108
Net Eastern Mine Supply (lbs U3O8)	55	55	59	60	60	57	62	54	53	56	56	56	56	57
Total World Mine Supply (mmlb U3O8)	140	141	150	153	145	163	165	157	136	142	146	151	162	165
YoY % change	5.9%	0.9%	5.9%	2.4%	-5.3%	12.2%	1.1%	-4.5%	-13.7%	5.0%	2.7%	3.5%	7.1%	1.8%
Secondary Supply														
Global underfeeding and tails re-enrichment*	9	5	5	15	20	20	18	19	18	16	15	15	15	15
Mixed Oxide Fuel (MOX)*	7	8	10	8	8	4	4.7	5	5	5	6	6	6	6
US government sales (DOE Proposed)*	6	5	5	8	8	7.3	4.2	3.1	1.6	0.0	0.0	0.0	0.0	0.0
Additional Russian secondary supply*	24	24	24	24	5	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other (commercial inventories)					4	8	7	7	7	7	7	7	7	7
Total Secondary Supply (mmlb)	46	42	43	55	45	42	36	34	31	28	28	28	28	28
Total Supply	186	183	193	208	190	205	200	191	167	171	175	180	191	194
Total World Demand														
Total World Nuclear Generating Capacity (MWe) *						345,333	351,251	358,799	369,682	374,838	379,949	382,842	383,809	385,821
Uranium requirements per MWe						464	474	470	470	470	470	470	470	470
Uranium demand (mmlb)						160	167	169	174	176	179	180	180	181
First Core Requirement (2 year lead)						-	-	-	-	-	-	-	-	-
Total World Demand (mmlbs U3O8)	165	155	155	170	155	160	167	169	174	176	179	180	180	181
YoY % change	-2.4%	-6.1%	0.0%	9.7%	-8.8%	3.4%	3.9%	1.2%	3.0%	1.4%	1.4%	0.8%	0.3%	0.5%
Supply / Demand Balance (mmlb)	21	28	38	38	35	44	34	22	-7	-5	-4	0	10	12
Historical Spot Uranium Price (US\$/lb U3O8) * Source: World Nuclear Association - Nuclear Fuel	46.46 Report 201	\$57.08 7-2035	\$48.73	\$38.57	\$33.60	\$36.89	\$26.57	\$22.12	\$25.57	\$35.00	\$40.00	\$45.00	\$45.00	\$55.00

Note - TD LT price assumption starts in 2023; a flat US\$55/lb price is assumed for 2023 and beyond.

Source: Ux Consulting, Bloomberg, TD Securities Inc. estimates

Outlook

We have elected to remove a negative ~\$600mm adjustment from our NAV-10% which approximated the CRA prepayments remaining to be paid by Cameco. Our NAV increases to \$13.44/share (from \$12.06/share).

Exhibit 5. Cameco Net Asset Value

Cameco Net Asset Value		8%	10%		
		C\$000	C\$/sh	C\$000	C\$/sh
Nuclear Operations					
McArthur River	69.8% JV	1,706,013	4.31	1,409,567	3.56
Cigar Lake	50.3% JV	1,684,017	4.25	1,531,975	3.87
Rabbit Lake	100%	184,280	0.47	150.736	0.38
Inkai	40%	1,580,007	3.99	1,218,974	3.08
Highland-Smith	100%	190,200	0.48	190.200	0.48
Crow Butte	100%	108,600	0.27	108,600	0.27
Conversion	100%	286,971	0.73	264,940	0.67
Total Operations		5,740,088	14.50	4,874,992	12.32
Existing Mines (50% inferred reso Pipeline projects (50% total resou Nukem Mining/Project NAV Plus:		708,000 629,200 300,000 7,377,288	1.79 1.59 0.76 18.64	708,000 629,200 300,000 6,512,192	1.79 1.59 0.76 16.45
Working Capital		1,674,409	4.23	1.674.409	4.23
Equity Investments		16,812	0.04	16,812	0.04
Minus:					
Corporate G&A		(555,055)	(1.40)	(477,805)	(1.21)
			0.00	0	0.00
•		0	0.00	U	0.00
CRA Tax dispute Debt		0 (1,495,057)	(3.78)	(1,495,057)	(3.78)
CRA Tax dispute				-	
CRA Tax dispute Debt		(1,495,057)	(3.78)	(1,495,057)	(3.78)

^{*} Pipeline projects include: Yeelirrie, Kintyre, Millenium and Fox Lake

Source: TD Securities Inc. estimates



Equity Research September 28, 2018

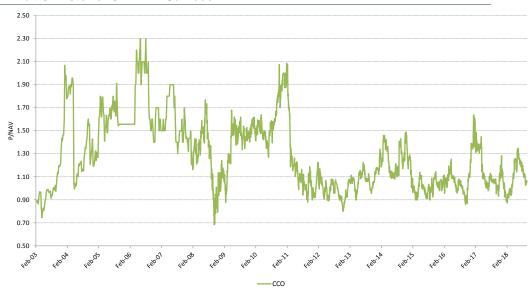
Valuation

Cameco is trading at an EV/2019 EBITDA multiple of 22.5x and a P/NAV multiple of 1.1x, compared with its large-cap producer group average of 9.7x and 0.98x, respectively.

Justification of Target Price

Our revised \$20.00 target price is based on an NAV-10% multiple of 1.5x (100% weighted). We use an NAV multiple as opposed to EBITDA, as we believe that it is more reflective of the long-term value of the company.

Exhibit 6. Historic P/NAV — Cameco



Source: ThomsonOne, TD Securities Inc.

Key Risks to Target Price

The main risks facing the company include forecast, financial, technical, and political risks. Among other things, these include risks related to uranium prices, input costs, and fuel prices; the governing fiscal and legislative regimes; the timing of key developments; market conditions; capital and operating costs; foreign exchange rates; resources and reserves; operating parameters; permitting; environment; and staffing and key personnel retention. Our forecast of Cameco's realized price could be substantially different from that actually realized by the company. As Cameco is primarily a uranium mining company, it faces heightened environmental risks relative to other mining companies. The disputes with the CRA and TEPCO are additional risks.



Equity Research September 28, 2018

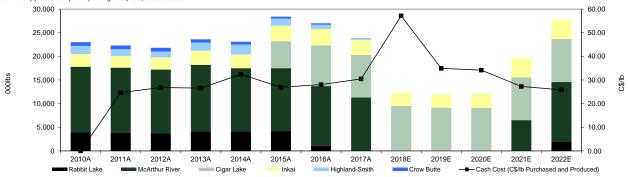
Exhibit 7. Company Snapshot

Risk Profile:		HIGH		NAV	-8%	NAV-	10%
Stock Rating:		BUY	NAV Estimate	C\$mm	C\$/share	C\$mm	C\$/share
Target Price:		20.00	McArthur River	1,706.0	4.31	1,409.6	3.56
			Cigar Lake	1,684.0	4.25	1,532.0	3.87
			Rabbit Lake	184.3	0.47	150.7	0.38
Target Price Calculator			Inkai	1,580.0	3.99	1,219.0	3.08
EV/2019E EBITDA		0%	Highland-Smith	190.2	0.48	190.2	0.48
15.00x	C\$mm	4,581	Crow Butte	108.6	0.27	108.6	0.27
Cash as of Q4/18	C\$mm	896	Conversion	287.0	0.73	264.9	0.67
Long-term debt as of Q4/18	C\$mm	(1,495)	Total Operations	5,740.1	14.50	4,875.0	12.32
Total	C\$mm	3,983	Resources - Existing Mines*	708.0	1.79	708.0	1.79
Per share - C\$		10.06	Resources - Pipeline projects*	629.2	1.59	629.2	1.59
			Nukem	300.0	0.76	300.0	0.76
NAV-10%		100%	Mining/Project NAV	7,377.3	18.64	6,512.2	16.45
1.50x	C\$mm	5,320	Working Capital	1,674.4	4.23	1,674.4	4.23
Per share - C\$		13.44	Corporate G&A	-555.1	-1.40	-477.8	-1.21
Target Price (100% NAV-10%)		20.00	CRA Tax dispute	0.0	0.00	0.0	0.00
			Debt	-1,495.1	-3.78	-1,495.1	-3.78
			Other	-893.3	-2.26	-893.3	-2.26
			Total balance sheet adj.	-1,269.0	-3.21	-1,191.7	-3.01
			Total Net Asset Value	6,108.3	15.43	5,320.5	13.44

Fiscal Yr-End: Dec												
C\$	2015A	2016A	2017A	Q1/18A	Q2/18A	Q3/18E	Q4/18E	2018E	2019E	2020E	2021E	2022E
Metal Price Assumptions												
Spot Uranium (US\$/lb)	36.89	26.57	22.12	22.32	22.97	27.00	30.00	25.57	35.00	40.00	45.00	45.00
Realized Uranium Price (US\$/lb)	44.99	41.64	35.70	42.92	34.93	37.00	37.00	37.96	40.25	41.00	44.50	44.50
Realized Uranium Price (C\$/lb)	56.94	55.07	46.06	54.13	44.91	45.00	45.00	46.73	51.60	51.90	55.63	54.27
Production Assumptions												
Uranium (mmlb)	28.40	27.00	23.80	2.40	2.90	2.10	2.32	9.51	9.16	9.13	15.58	23.66
Consolidated operating cash costs (US\$/lb)	26.95	28.05	30.46	26.73	21.46	26.44	31.84	57.13	34.92	34.17	27.25	25.88
Per Share Estimates (US\$/sh)												
EPS (f.d.) (C\$/sh)	0.87	0.36	0.15	0.06	(0.07)	0.03	0.27	0.28	(0.03)	(0.13)	0.24	0.76
CFPS bf WC (C\$/sh)	1.32	0.99	1.31	0.26	0.18	0.15	0.42	1.00	0.41	0.28	0.85	1.38
EBITDA	1.99	1.47	1.43	0.23	0.17	0.33	0.48	1.21	0.77	0.62	1.27	1.97
Financial Estimates (\$mm)												
Total Revenue	2,754.4	2,431.4	2,156.9	439.4	333.3	530.4	746.3	2,049.4	1,714.2	1,428.0	1,499.4	1,909.7
Operating Cost	1,744.8	1,596.2	1,390.2	309.8	237.4	383.8	550.8	1,481.7	1,350.4	1,145.3	1,008.7	1,120.5
Gross Margin	1,009.6	835.2	766.6	129.6	95.9	146.7	195.5	567.7	363.8	282.7	490.8	789.2
Gross Margin %	37%	34%	36%	29%	29%	28%	26%	28%	21%	20%	33%	41%
EBITDA	786.8	581.0	567.9	90.8	68.9	130.5	189.8	480.1	305.4	245.7	503.0	779.4
EBITDA Margin %	29%	24%	26%	21%	21%	25%	25%	23%	18%	17%	34%	41%
Operating CF bf. ch. in WC	521.6	391.8	519.9	102.7	70.1	59.0	164.5	396.2	162.0	111.4	336.2	545.7
Changes in Working Capital	(71.6)	(79.4)	76.1	172.5	(13.1)	133.7	94.4	387.5	0.0	0.0	0.0	0.0
CF from operating activities	450.0	312.4	596.1	275.1	57.0	192.7	258.8	783.7	162.0	111.4	336.2	545.7
CF from financing activities	(227.8)	(228.8)	(227.8)	(53.7)	(20.5)	(7.9)	(7.9)	(90.1)	(531.7)	(31.7)	(31.7)	(431.7)
CAPEX	(358.6)	(216.9)	(114.0)	(15.4)	(14.6)	(17.5)	(17.5)	(65.0)	(61.8)	(51.0)	(134.3)	(159.0)
Other	18	(1)	21	10	(330)	(4)	(4)	(328)	(18)	(18)	(18)	(18)
CF from investing activities	(340.8)	(217.8)	(93.1)	(5.0)	(344.3)	(21.9)	(21.9)	(393.0)	(79.3)	(68.5)	(151.8)	(176.5)
Cash	458.6	320.3	591.6	812.5	504.1	667.1	896.1	896.1	447.2	458.4	611.1	548.6
Current portion of LTD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Long-term debt	1,492.2	1,493.3	1,494.5	1,494.8	1,495.1	1,495.1	1,495.1	1,495.1	995.1	995.1	995.1	595.1
Net Debt	1,033.6	1,173.0	902.9	682.2	990.9	828.0	598.9	598.9	547.9	536.7	383.9	46.4
Net Debt/EBITDA	1.33x	2.02x	1.59x	nm	nm	nm	nm	1.41x	2.46x	3.79x	1.13x	0.08
Net Debt/Net Debt + Equity	15.7%	18.2%	15.7%	12.2%	17.0%	14.6%	10.8%	10.8%	10.1%	10.1%	7.4%	0.9%
FCF	163.1	174.9	405.9	87.3	55.5	41.5	147.0	331.2	100.2	60.4	201.9	386.7
S/O basic (mm)	395.8	395.8	395.8	395.8	395.8	395.8	395.8	395.8	395.8	395.8	395.8	395.8
* Eviating mines and pinaline projects are because	d on EOO/ informed	ranguraga @ 0	¢10/lb and 500/	of total ranguing	0 0 C€ 4/lb roc	nooti tok t						

^{*} Existing mines and pipeline projects are based on 50% inferred resources @ C\$10/lb and 50% of total resources @ C\$4/lb, respectively.

 $^{^{\}star}\, LT$ commodity price assumptions (starting 2023): US\$55.00/lb U3O8



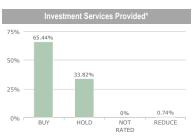
Source: Company, TD Securities Inc.



Equity Research September 28, 2018

TD Securities Equity Research Disclosures





Current as of: September 28, 2018

- ^ Percentage of subject companies under each rating category: BUY (covering ACTION LIST BUY, BUY and SPECULATIVE BUY ratings), HOLD, and REDUCE (covering TENDER and REDUCE ratings).
- * Percentage of subject companies within each of the three categories (BUY, HOLD, and REDUCE) for which TD Securities Inc. has provided investment banking services within the last 12 months.

Definition of Research Ratings

ACTION LIST BUY: The stock's total return is expected to exceed a minimum of 15% (with higher thresholds for less liquid, more risky securities) over the next 12 months and it is a top pick in the Analyst's sector.

BUY: The stock's total return is expected to exceed a minimum of 10% (with higher thresholds for less liquid, more risky securities) over the next 12 months.

SPECULATIVE BUY: The stock's total return is expected to exceed a minimum of 30% over the next 12 months (with higher thresholds for less liquid securities); however, there is material event risk associated with the investment that could result in a significant loss.

HOLD: The stock's total return is expected to be between 0% and 10%, (with higher thresholds for less liquid, more risky securities) over the next 12 months.

TENDER: Investors are advised to tender their shares to a specific offer for the company's securities or to support a proposed combination reflecting our view that a superior offer is not forthcoming.

REDUCE: The stock's total return is expected to be negative over the next 12 months.

SUSPENDED: Due to evolving circumstances, we can no longer generate what we consider a defensible target price and rating at the current time.

UNDER REVIEW: Our rating is under review pending additional information and/or analysis. The prior rating should not be relied on.

Overall Risk Rating in order of increasing risk: Low (6.0% of coverage universe), Medium (37.8%), High (47.8%), Speculative (8.4%)

Research Dissemination Policy

TD Securities makes its research products available in electronic and/or printed formats and as soon as practicable distributes them to its institutional clients who are entitled to receive them. The Action Notes are distributed by email, and are available in PDFform on Thomson Reuters, Bloomberg, S&P Capital IQ and FactSet. Research Reports are distributed by email; they are also printed and distributed by courier to our entitled clients. PDFs of Reports are available on Thomson Reuters, Bloomberg, S&P Capital IQ and FactSet. All research is available by password to entitled institutional clients at https://www.tdsresearch.com/equities

Analyst Certification

Each analyst of TD Securities Inc. whose name appears on page 1 of this research report hereby certifies that (i) the recommendations and opinions expressed in the research report accurately reflect the research analyst's personal views about any and all of the securities or issuers discussed herein that are within the analyst's coverage universe and (ii) no part of the research analyst's compensation was, is, or will be, directly or indirectly, related to the provision of specific recommendations or views expressed by the research analyst in the research report.

Disclaimer

This material is for general informational purposes only and is not investment advice nor does it constitute an offer, recommendation or solicitation to buy or sell a particular financial instrument. It does not have regard to the specific investment objectives, financial situation, risk profile or the particular needs of any specific person who may receive this material. No representation is made that the information contained herein is accurate in all material respects, complete or up to date, nor that it has been independently verified by TD Securities. Recipients of this analysis or report are to contact the representative in their local jurisdiction with regards to any matters or questions arising from, or in connection with, the analysis or report.

Historic information regarding performance is not indicative of future results and investors should understand that statements regarding future prospects may not be realized. All investments entail risk, including potential loss of principal invested. Performance analysis is based on certain assumptions, the results of which may vary significantly depending on the modelling inputs assumed. This material, including all opinions, estimates and other information, constitute TD Securities' judgment as of the date hereof and is subject to change without notice. The price, value of and income from any of the securities mentioned in this material can fall as well as rise. Any market valuations contained herein are indicative values as of the time and date indicated. Such market valuations are believed to be reliable, but TD Securities does not warrant their completeness or accuracy. Different prices and/or valuations may be available elsewhere and TD Securities suggests that valuations from other sources be obtained for comparison purposes. Any price or valuation constitutes TD Securities' judgment and is subject to change without notice. Actual quotations could differ subject to market conditions and other factors.

TD Securities disclaims any and all liability relating to the information herein, including without limitation any express or implied representations or warranties for, statements contained in, and omissions from, the information. TD Securities is not liable for any errors or omissions in such information or for any loss or damage suffered, directly or indirectly, from the use

TD Securities Inc.

Action Note



Equity Research September 28, 2018

of this information. TD Securities may have effected or may effect transactions for its own account in the securities described herein. No proposed customer or counterparty relationship is intended or implied between TD Securities and a recipient of this document.

TD Securities makes no representation as to any tax, accounting, legal or regulatory issues. Investors should seek their own legal, financial and tax advice regarding the appropriateness of investing in any securities or pursuing any strategies discussed herein. Investors should also carefully consider any risks involved. Any transaction entered into is in reliance only upon the investor's judgment as to financial, suitability and risk criteria. TD Securities does not hold itself out to be an advisor in these circumstances, nor do any of its representatives have the authority to do so.

The information contained herein is not intended for distribution to, or use by, any person in any jurisdiction where such distribution or use would be contrary to applicable law or regulation or which would subject TD Securities to additional licensing or registration requirements. It may not be copied, reproduced, posted, transmitted or redistributed in any form without the prior written consent of TD Securities.

If you would like to unsubscribe from our email distribution lists at any time, please contact your TD Securities Sales Contact. If you are located in Europe, Asia, Australia or New Zealand you may also unsubscribe by emailing us at Privacy.EAP@tdsecurities.com.

You can access our Privacy Policy here (http://www.tdsecurities.com/tds/content/AU_PrivacyPage?language=en_CA&language=en_CA).

Australia: If you receive this document and you are domiciled in Australia, please note that this report is intended to be issued for general information purposes only and distributed through the Toronto Dominion Australia Limited ("TDAL"). TDAL does not hold itself out to be providing financial advice in these circumstances. TD Securities is a trademark and represents certain investment dealing and advisory activities of Toronto-Dominion Bank and its subsidiaries, including TDAL. The Toronto-Dominion Bank is not an authorized deposit-taking or financial services institution in Australia. TDAL is a holder of an Australian Financial Services License (404698) and is regulated by the Australian Securities and Investments Commission.

Canada: Canadian clients wishing to effect transactions in any security discussed herein should do so through a qualified salesperson of TD Securities Inc. TD Securities Inc. is a member of the Canadian Investor Protection Fund.

Hong Kong SAR (China): This document, which is intended to be issued in Hong Kong SAR (China) ("Hong Kong") only to Professional Investors within the meaning of the Securities and Futures Ordinance (the "SFO") and the Securities and Futures (Professional Investor) Rules made under the SFO, has been distributed through Toronto-Dominion Bank, Hong Kong Branch, which is regulated by the Hong Kong Monetary Authority.

China, India and South Korea: Insofar as the document is received by any persons in the People's Republic of China ("PRC"), India and South Korea, it is intended only to be issued to persons who have the relevant qualifications to engage in the investment activity mentioned in this document. The recipient is responsible for obtaining all relevant government regulatory approvals/licenses themselves, and represents and warrants to TD Bank that the recipient's investments in those securities do not violate any law or regulation, including, but not limited to, any relevant foreign exchange regulations and/or overseas investment regulations. The Toronto-Dominion Bank has a representative office in Shanghai, Mumbai and Seoul which should be contacted for any general enquiry related to The Toronto-Dominion Bank or its business. However, neither any of the Toronto-Dominion Bank offshore branches/subsidiaries nor its representative offices are permitted to conduct business within the borders of the PRC, India and South Korea. In locations in Asia where the Bank does not hold licenses to conduct business in financial services, it is not our intention to, and the information contained in this document should not be construed as, conducting any regulated financial activity, including dealing in, or the provision of advice in relation to, any regulated instrument or product. This publication is for general information only, without addressing any particular needs of any individual or entity, and should not be relied upon without obtaining specific advice in the context of specific circumstances.

For Japanese residents, please note that if you have received this document from Toronto-Dominion Bank entities based outside Japan, it is being provided to qualified financial institutions ("QFI") only under a relevant exemption to the Financial Instruments and Exchange Act.

If you have received this document from TD Securities (Japan) Co., Ltd., it is being provided only to institutional investors. TD Securities (Japan) Co., Ltd. is regulated by the Financial Services Agency of Japan and is distributing this document in Japan as a Type 1 Financial Instruments Business Operator registered with the Kanto Local Finance Bureau under registration number, Kinsho 2992, and a member of Japan Securities Dealers Association.

New Zealand: The Toronto-Dominion Bank is not a "registered bank" in New Zealand under the Reserve Bank Act 1989.

Singapore: This report is distributed in Singapore by The Toronto-Dominion Bank, Singapore Branch, and recipients in Singapore of this report are to contact The Toronto-Dominion Bank, Singapore Branch in respect of any matters arising from, or in connection with, this report. The Toronto-Dominion Bank, Singapore Branch is regulated by the Monetary Authority of Singapore. Where this report is issued or promulgated in Singapore, it is only intended for distribution to a person who is an accredited investor, expert investor or institutional investor as defined in the Securities and Futures Act (Cap. 289) or the Securities and Futures (Prescribed Specific Classes of Investors) Regulations 2005 issued by the Monetary Authority of Singapore.

United Kingdom and Europe: This document is prepared, issued or approved for issuance in the UK and Europe by TD Securities Limited in respect of investment business as agent and introducer for TD Bank. The Toronto-Dominion Bank is authorised by the Prudential Regulation Authority and subject to regulation by the Financial Conduct Authority and limited regulation by the Prudential Regulation Authority. TD Securities Limited is authorised and regulated by the Financial Conduct Authority. Insofar as the document is issued in or to the United Kingdom or Europe, it is intended only to be issued to persons who (i) are persons falling within Article 19(5) ("Investment professional") of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005 (as amended, the "Financial Promotion Order"), (ii) are persons falling within Article 49(2)(a) to (d) ("High net worth companies, unincorporated associations, etc.") of the Financial Promotion Order, or (iii) are persons to whom an invitation or inducement to engage in investment activity (within the meaning of section 21 of the Financial Services and Markets Act 2000) in connection with the issue or sale of any securities may otherwise lawfully be communicated or caused to be communicated. European clients wishing to effect transactions in any security discussed herein should do so through a qualified salesperson of TD Securities Limited. Insofar as the information in this report is issued in the U.K. and Europe, it has been issued with the prior approval of TD Securities Limited.

United States: U.S. clients wishing to effect transactions in any security discussed herein must do so through a registered representative of TD Securities (USA) LLC.

TD Securities is a trademark of TD Bank and represents TD Securities Inc., TD Securities (USA) LLC and TD Securities Limited and certain investment and corporate banking activities of TD Bank and its subsidiaries.

© Copyright 2018 The Toronto-Dominion Bank. All rights reserved.

TD Securities Inc.

Action Note



Equity Research September 28, 2018

Full disclosures for all companies covered by TD Securities can be viewed at https://www.tdsresearch.com/equities/welcome.important.disclosure.action