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Aurizon Holdings At A Glance



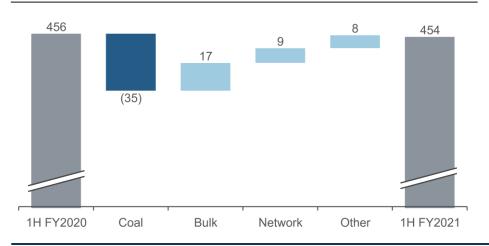
TFS Investment Group

We recommend a sell due to its exposure to coal coupled with no opportunities for diversification

2-Year Historical Performance



Underlying Group EBIT Bridge 1HFY2020-2021 (\$M)



Market Data¹

General Information							
	Units	Current					
Price	AUD	3.88					
Headquarters		Brisbane					
Valuation Currency		AUD					
Fiscal Year		Jul1-Jun30					
Market Capitalization	М	6,822					
52-Week Range	/Share	3.59 - 5.07					
LTM Valuation	n Multiples						
Price-to-Earnings		13.2x					
Price-to-Book Value		1.8x					
EV/EBIT		11.8x					
Liquidity and	Solvency						
Credit Rating ²		BBB+					
Debt-to-EBITDA		2.6x					
EBIT Interest Coverage		5.8x					
Valuation S	Valuation Summary						
Implied Share Price		\$2.90					
Implied Downside		(26%)					

Source(s): Capital IQ, Company Filings

2. Rating as of September 2019

^{1.} Market data as of March 25, 2021

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11.		Overview

Revenue Segments

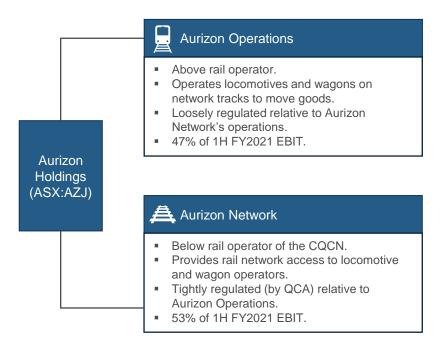


TFS Investment Group

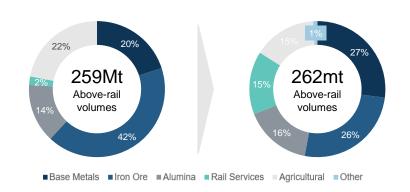
Aurizon aims to deliver critical commodities across Australia for end-market sales focused in Asia

Overview

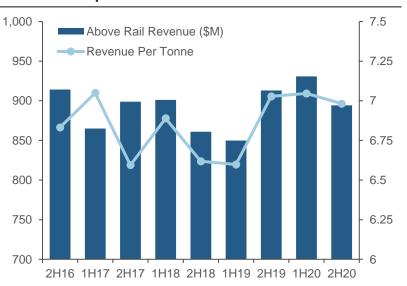
- Aurizon is one of the largest private rail operators in Australia with 500 active locomotives, 11,000 active wagons, and 40 sites.
- The firm operates two main segments:
 - 1. Transportation of commodities (i.e., "Coal" and "Bulk").
 - 2. Access to the Central Queensland Coal Network ("Network").
- Aurizon charges customers fees for hauling commodities across Australia or charges customers for access to their rail network.
- 58% of customer volumes contracted for over seven years and 60% of contracts are fixed-rate.



Bulk Commodity Exposure (2017 vs. 2020)



Revenue Snapshot and Trend



Source(s): Company Filings

Unit Economics of Freight

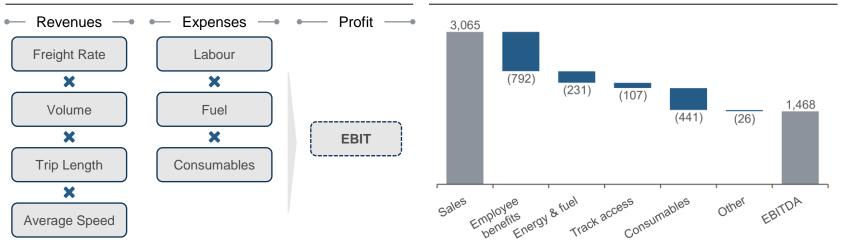


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Economics of freight are tilted heavily towards spreading out variable costs across a large network

Key Business Drivers

FY2020 Operating Expenses (\$M)



Process Chain For Revenue Generation

Contract Negotiation

Common clauses relate to freight rates, volume amounts, and duration.

Collection of Fees

Payment is collected based on terms (usually monthly) in the negotiated contract.

End of Contract

The contract ends once the maturity date specified in the agreement is reached.

Freight Haulage

Contractual obligation for transporting goods is performed.

Take-or-Pay/Revenue Cap

Revenue-recovery programs where the customer uses the contract hauling volumes or pays the operator a penalty.

III. Industry Overview

Regulatory Environment



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Operators under regulation in the industry have little room for pricing advances and growth activities

Rail Corridors in Australia

Light-handed regime Heavy-handed regime Aurizon's CQCN Central Corridor East-West Corridor North-South Corridor

Differences Between Regimes

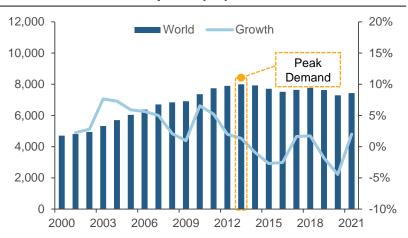
Regime	Light Handed	Heavy Handed
Regulatory Approach	Negotiate/arbitrage model with legal obligation to negotiate with access seekers.	Direct control with revenue cap regulation and access arrangements approved by the regulator.
Dispute Resolution	Set out in legislation. Disputes are resolved through an escalation and can occur over a long timeframe.	Set out in access arrangements or the legislation. Shorter timeframe.
Access Charges	Access charges only set in the event of an arbitrage dispute.	Access charges subject to revenue cap regulation.
Impact on Operators	Low protection and high uncertainty for operators. They have flexibility to negotiate terms and conditions that suit them.	High protection and certainty for operators. Access arrangements are even more detailed. Operators can still negotiate, but on a restricted basis.
Impact on Regulators	Low regulatory costs, although monitoring is usually required, and disputes may arise more often.	High regulatory costs in assessments, setting price methodologies and other activities.

Macroeconomic Outlook for Commodities

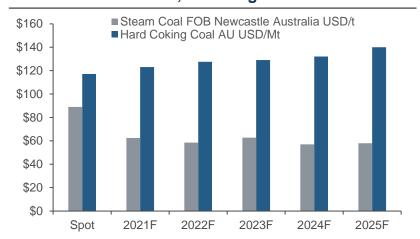


Global coal consumption declining with producer capex, driving impact on thermal coal globally

Global Coal Consumption (Mt) & Growth



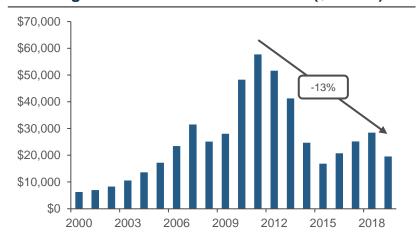
Thermal Price Decline: Metallurgical Price Increase



Downhill From Peak Demand in 2013

- Global coal consumption peaked at 8,000 Mt in 2013.
- Consumption decreased at a -1% CAGR 2013-2021.
- Thermal coal demand driven lower by increased renewable electricity generation and cost efficiencies in natural gas production.
 - CAGR 2021-2025: -8.6%.
- Metallurgical coal demand driven higher by increased demand for steel for renewable infrastructure development.
 - CAGR 2021-2025: 3.8%.
- Declining producer capital expenditures illustrates the lack of positive NPV projects, driven by increased competition for assets and poor outlook.

Declining Global Coal Producer CAPEX (\$M USD)



IV. ESG Analysis

Management and Compensation Overview



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Foundations exist but current practices impose a ceiling on growth opportunities for Aurizon

Management Overview





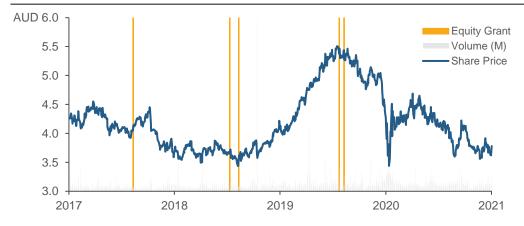






Name	Andrew Harding	George Lippiatt	Pam Bains	Clayton McDonald	Edward McKeiver
Position	CEO	CFO	Network Executive	Bulk Executive	Coal Executive
Tenure	5	8	10	12	11
Background	B.Eng. and MBA. CEO Copper and Iron Ore at Rio Tinto.	KPMG Corp. Finance, VP Strategy and Head of Corporate Development at Aurizon.	Head of Finance at Telefonica, Controller at Ventura, Audit at Arthur Andersen.	GM Coal, VP Network Ops., VP Network Commercial at Aurizon.	B.Eng. And MBA. Director at RISSB. VP Coal Ops., VP Coal Marketing at Aurizon.

Price-Volume Chart Overlaid with CEO Equity Grants



Compensation Rating: C+

- Our group views compensation as an integral part to evaluating governance due to the power it holds over economic actors.
- We ascribe an overall grade of C+ towards the compensation practices of the firm.
- For the most part, the firm has adhered to best practices, however lags sector peers in aligning NEOs to shareholders.
- The comparative group we used comprised Canadian National Railway, Union Pacific, Norfolk Southern, Canadian Pacific Rail, and CSX Corporation.

Key Areas of Concern

- Lack of a clear definition of a peer group.
- Only partial use of external, independent compensation consultants.
- No specific guidance for the individual goal portion of short-term incentive awards.
- Pay mix for Aurizon's CEO comprises 24% fixed and 76% variable while peer CEOs have ~11% fixed and ~89% variable.
- Minimum share ownership for CEO is 1x annual salary while peer CEOs must hold ~6x.

Current pay mix and share ownership rules do not incentivize company growth and risk-taking.

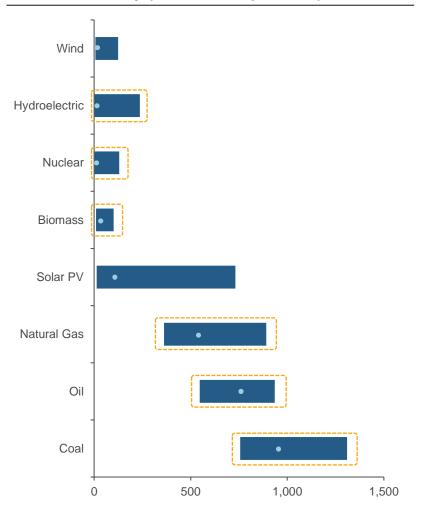
Carbon Emissions



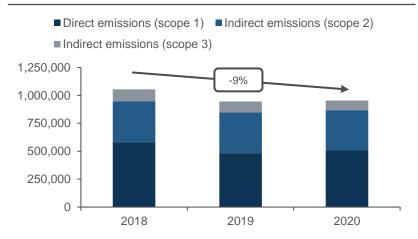
TFS Investment Group

Aurizon's contribution to the coal industry produces a poor rating on the basis of scope 3 emissions

Carbon Efficiency (Tonnes CO2 per GWh)



Aurizon's GHG Emissions (Metric Tonnes of C02e)



Emissions Rating: D

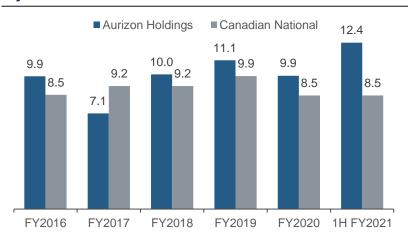
- Coal is the least carbon efficient source of electricity amongst its non-intermittent peers.
- Meaningful improvement has been achieved in scope 1 and 3 emissions; however, emissions that arise from the coal commodities that it transports are not included in scope 3.
 - TFS Investment Group undertakes the view that emissions arising from coal should be included in scope 3. This considerably worsens Aurizon's emissions.
- There is increasing pressure on Australia to make policy changes to meet climate change targets.
 - Bloomberg reported that a free trade deal being negotiated between the EU and Australia won't be ratified unless more is done to reduce emissions.

Employee Governance and Safety



Aurizon's injury frequency rates are comparably worse than its peer's

Injuries Per Million Person-Hours Worked¹



Incidents Per Million Train-Kilometers Travelled¹



Aurizon's Glassdoor Reviews: ★★★



"Inept management. Management seem to have contempt for the workers. There are double standards and no accountability for management. Many have their own agenda and there is a culture of bullying."

"Had the unfortunate circumstance of working for a manager [...] with an extremely toxic and destructive management style and [...] made regular comments to myself that my job security was at risk [...]"

While the most repeated complaint was related to management, the most repeated praise was for Aurizon's pay.

Employee Governance & Safety Rating: C

- Our group believes that strong safety and employee governance are critical aspects for any firm. To operate, all businesses need employees and that's why businesses should strive to keep their employees' safety and well-being a priority.
- Specifically in the rail industry, rail workers are at higher risk of injury. In FY2020, Aurizon unfortunately suffered the loss of one train operator in a workplace-related incident.
- We ascribe Aurizon Holdings with a grade of C for its safety governance practices because of its rising injury frequency rates and underperformance relative to peers.
- Lastly, Aurizon's Glassdoor reviews indicate a culture of bullying and toxicity perpetuated by its managers. This is concerning from an employment sustainability perspective.

Source(s): Company Filings, TFSIG Estimates, Glassdoor

^{1.} Canadian National Railway 2021 figures were estimated using the most recent frequency rates

V. Short Theses

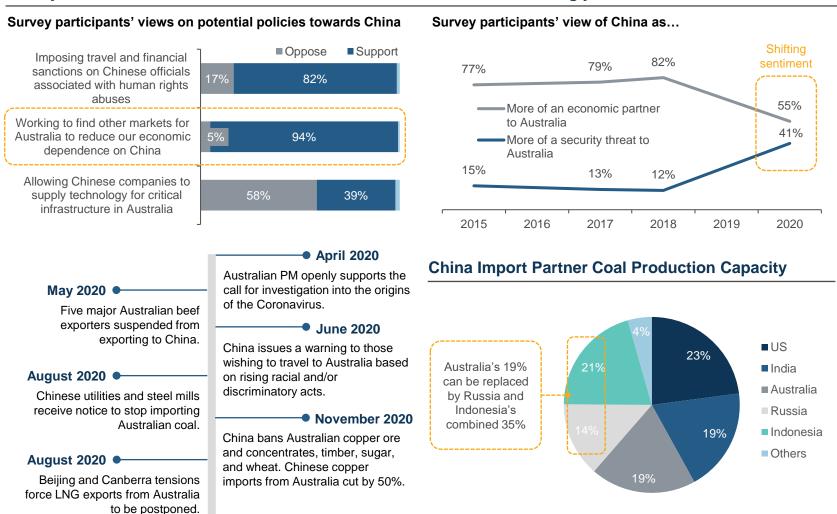
China-Australia Tensions



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With no end in sight, Australia's commodity export market will suffer extended periods of difficulty

Surveys of Australian Citizens Demonstrate That Australia Feels Increasingly Hostile to China



Poor Capital Allocation and a Declining Opportunity Set



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We see no material benefits to be realized with this acquisition and a closed runway for growth

Unfit Addition to the Portfolio

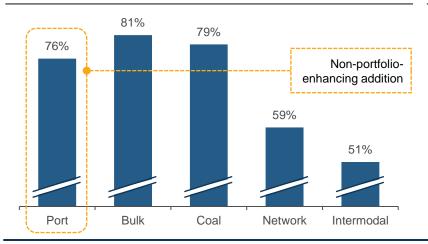
Acquisition Overview

- \$25M acquisition of Townsville Bulk Storage & Handling.
- Acquisition is aimed at Bulk segment customers, contributing only of 16% of group revenue and 9% of group EBIT.
- Aurizon owns only 1 out of 8 competing terminals in the area.
- From our call with Aurizon, we could not ascertain any tangible benefits from this acquisition.
- For Bulk customers, the administrative convenience isn't a significant selling point.

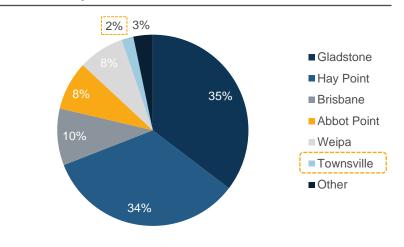
Sunset Industry

- Aurizon operates in a sunset industry that is stifled by regulatory practices.
- The firm is finding it increasingly difficult to allocate capital towards growth opportunities.
- Not to mention, compensation practices stifle growth as well.

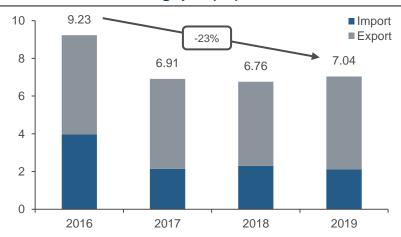
Business Unit Operating Ratios¹



The Port Only Commands a 2% Share in Queensland



Townsville Port Throughput (Mt) Is On The Decline



Source(s): Company Filings, Ports Australia, Investor Relations

^{1.} Operating ratio is calculated by dividing operating expenses by revenues. Also note that Intermodal is a discontinued operation.

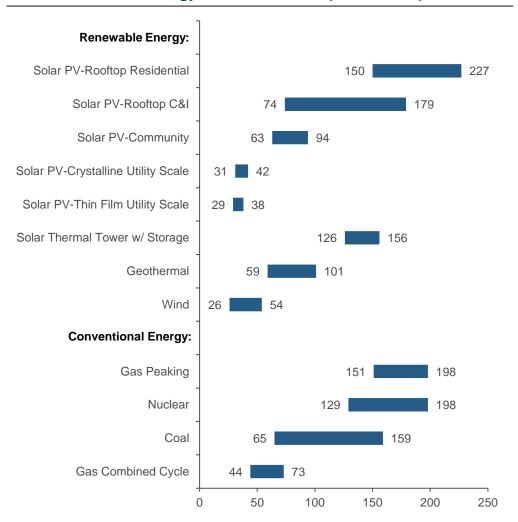
Renewable Viability and Shifting Policies



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Select cost-competitive renewable sources will lead the way for the wider adoption of renewables

Levelized Cost of Energy Across Sources (\$USD/mWh)1



China

- Metallurgical coal used for steelmaking will remain a key driver of demand.
- Thermal coal is being targeted for phase outs in the long-term.
- Despite coal generation capacity coming online in China, these are situated in Inner Mongolia and Shaanxi, 2 coal producing economies.
- Plants close to coal mining hubs account for 75% of approved capacity.
- Furthermore, the CNCA proposes capping consumption at 4.2B tonnes p.a. by 2025.
 - This represents 1.02x 2020 consumption, indicating a peak demand for coal.

India

- Coal-fired power generation declined 4.5% in 2020 in favour of a shift to renewables.
 - Y/Y April'20 generation down 30%.
- Akin to China, metallurgical coal will remain a key driver of demand while thermal coal will be phased out over the long-term.
- India is opening renewable projects for international investment and auctions to drive investment in a cost-effective way.
- The likes of KKR and CDPQ have started investing in India.
- India has ambitious targets to increase renewables to 44% of installed capacity by 2027.

Source(s): Lazard, IEA, Reuters

^{1.} Values are estimated without the effect of subsidies

VI. Valuation

Discounted Cash Flow Assumptions



See appendices for full model output

Coal Revenue	 Coal volumes tapering off by ~4% p.a. due to decline in contracted volumes and long-term contract renewal rates. Coal revenue/tonne to slowly decline from 8.0 to 7.0 over the projection period. Overall decline due adverse effects of China's trade war, difficulties in relocating coal, renewable tailwinds, and international pressures to phase coal out.
Bulk Revenue	 Bulk volumes declining by ~1.8% p.a. within first 3 years due to lasting effects of the China trade war; offset by increasing volumes of ~2.3% p.a. afterwards due to renewed cyclical commodity strength and exposure to renewable-critical minerals. Bulk revenue/tonne to stay consistent at 11.8 (3-year average). Overall strengthened segment due to renewable tailwinds and timing of commodity cycle.
Network Revenue	 Network volumes declining by ~3% p.a. due to CQCN asset being structured around coal mines. Network revenue/tonne to stay constant at 5.3 (3-year average). Heavy exposure to coal leads us to forecast declining volumes; partially offset by take-or-pay protection.
Operating Expenses (% of Revenue)	 Energy & fuel to fall as a percentage of revenue from 3-year average by 40bps due to Precision Project rollout. Track access, consumables, and G&A to stay consistent with 3-year average.
Capex (% of Revenue)	 \$518M capex estimated in FY21 per midpoint of management guidance. Declining from 18% of revenues to 14% by end of projection period due to declining need for maintenance (due to falling volumes).
Depreciation (% of Revenue)	 200bps above capex percentage of revenue per historical trend. Reflects lack of significant investment opportunities in fleet acquisition or M&A.
Δ Non-Cash Working Capital (% of Revenue)	 Days sales outstanding to increase slightly by 2 days by end of projection period. Days payables outstanding to decline significantly from 42 to 32 by end of projection period; driven by increased gearing and tightening credit conditions.

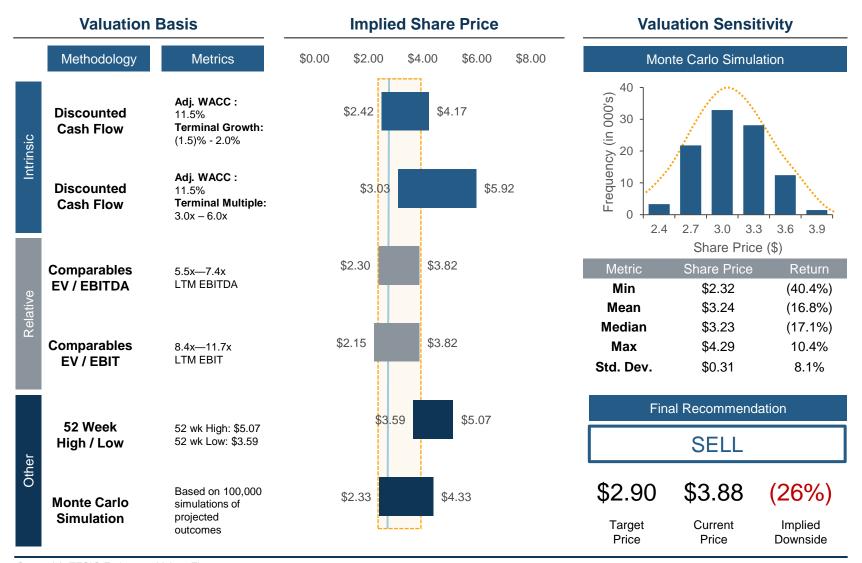
All in \$ M	FY20	LTM	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30	FY31	FY32	FY33
Consolidated	3,064.5	3,034.1	2,869.5	2,717.7	2,607.9	2,526.8	2,439.3	2,370.2	2,299.4	2,232.3	2,179.1	2,128.7	2,079.7	2,026.2	1,965.4
Coal	1,775.3	1,702.1	1,634.2	1,489.8	1,400.8	1,334.0	1,252.9	1,192.5	1,128.9	1,068.5	1,020.4	974.5	925.8	879.5	831.1
Bulk	608.8	633.0	553.4	542.3	536.9	542.3	553.1	564.2	575.5	587.0	601.6	616.7	635.2	654.2	673.9
Network	1,188.5	1,185.6	1,208.0	1,183.8	1,148.3	1,113.9	1,080.4	1,048.0	1,016.6	986.1	956.5	927.8	900.0	864.0	820.8
Other	40.7	26.6	34.0	32.2	30.9	29.9	28.9	28.0	27.2	26.4	25.8	25.2	24.6	24.0	23.3
Internal Eliminations	(548.8)	(513.2)	(560.0)	(530.4)	(509.0)	(493.2)	(476.1)	(462.6)	(448.8)	(435.7)	(425.3)	(415.5)	(405.9)	(395.5)	(383.6)

Valuation Summary



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Using our base case, we arrive at a target price of \$2.90 with an implied downside of 26%

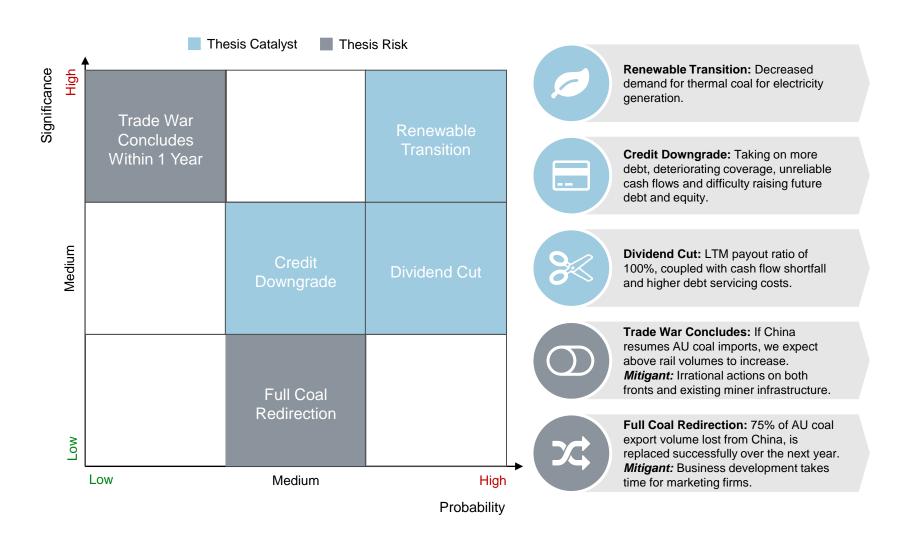


Risk & Catalyst Matrix



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Catalysts for the short thesis outweigh upside risks in both probability and significance



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Australian and Aurizon Coal Exposure

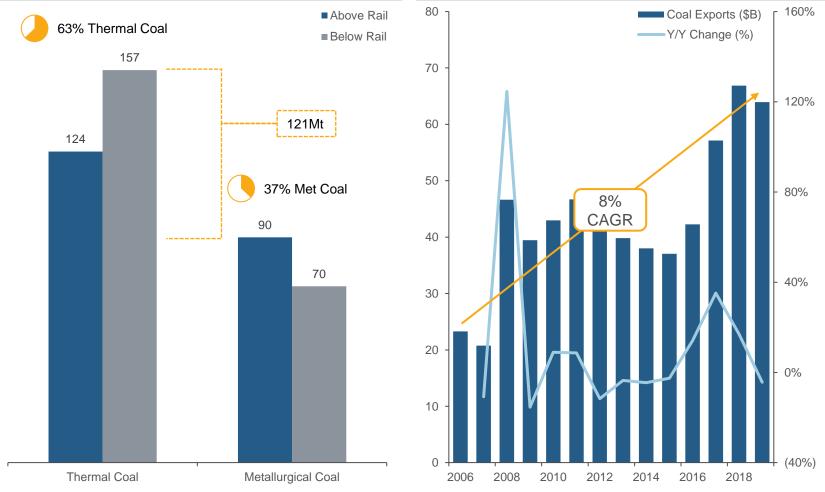


Approximately 80% of Aurizon's revenues relate to Australia's 2nd largest export, coal

Aurizon's Exposure to Thermal Coal is Higher than

That of Metallurgical Coal by a Factor of 1.8x

Australia's Own Exposure to Coal Has Been on the **Rise As Well**

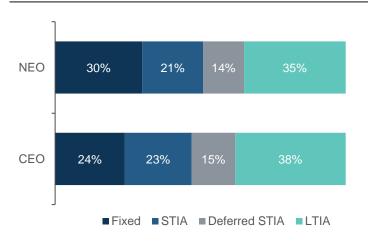


Compensation Overview



Form of Compensation	Description	Caps	KPIs
Fixed Renumeration	Salary and other benefits		
Short-term Incentive Awards	"At risk" compensation in the form of cash bonuses or equity vesting after 12 months.	CEO: target 100% of fixed, max 150%	EBIT, safety, individual targets set out by the
(STIA)	STIA are awarded on the performance period of 12 months.	KMP: target 75% of fixed, max of 112.5%	Board
Long-term Incentive Awards	"At risk" compensation in the form of equity. LTIA are awarded on the performance period	CEO: max 150%	Relative TSR, ROIC
(LTIA)	of 4 years.	KMP: max 112.5%	ŕ

Detailed Pay Mix for Aurizon CEO and NEOs



Notes on Compensation

- In FY2021, the compensation board lessened fixed compensation in favour of long-term incentive awards.
- LTIA maximum payout will be increased from 120% to 150% in FY2021 for the CEO.
- During FY2020, only the 3-year TSR award vested (relative to FY2017). No portion of the ROIC component vested.
- 2017 ROIC target of average 10.5% over a four-year period
- Average ROIC target upped from 9% in FY2018 to 9.5% in 2019/20 to reflect current business outlook.
- KPIs only focused on EBIT and ROIC whereas peers use EPS and FCF as well.

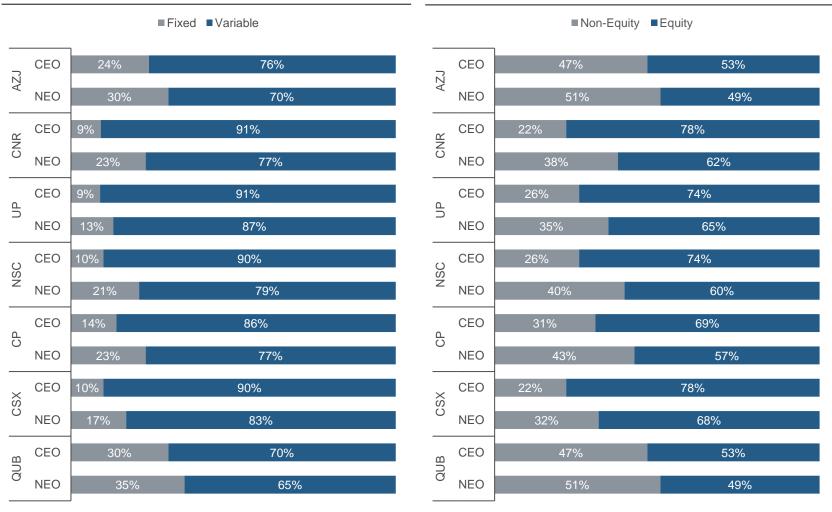
Pay Mix Comparison



Most peers are increasingly structuring compensation to rely on pay-for-performance

Fixed (Salary) Pay vs. Variable (Bonus) Pay Mix

Non-Equity Pay vs Equity Pay Mix



Appendices

Share Ownership Comparison

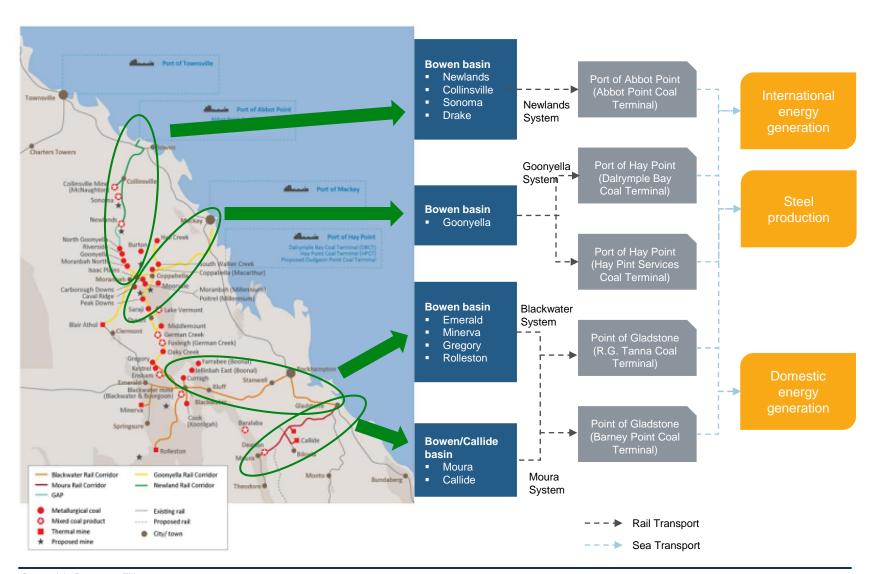


Most peers require substantial more share ownership for its management team relative to Aurizon

Company	Ticker	CEO	KMP/NEO	Time to meet requirement
Aurizon	AZJ	1x	0.5x	6
CNR	CNR	8x	1.5x – 5x	5
Union Pacific	UP	7x	4x	
Norfolk Southern	NSC	5x	1x – 3x	5
CP Rail	СР	6x	1x - 3x	5
CSX Corp.	CSX	6x	1x – 4x	5

Central Queensland Coal Network Supply Chain









2018 Capital Allocation Framework

Operating Cash Flow & Net Borrowings (Max 40% Gearing)

Sustaining & Transformational Capital

Dividends

Surplus Capital and Growth Capital

- Ongoing operating cash flows and NOPAT.
- Borrowings from debt issuance.
- Driven by credit ratings and asset-based lending.
- Maintenance capital expenditures scaling with volume.
- Target of 70% to 100% payout ratio (relative to NPAT).
- Share repurchases.
- Tuning capital structure.
- Selective growth projects.

Operating Cash Flow & Net Borrowings

Non-Growth Capital

Dividends

Surplus Capital and Growth Capital

2020 Capital Allocation Framework

Scenario Overview



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Our target price represents the base case, but we run a scenario analysis to cover our bases

	Bear	Base	Bull
Above Rail Revenue	 Coal volumes declining by ~5% p.a. due to declines in contracted volumes. Bulk volumes declining slightly, followed by an increase of ~1.3% p.a. 	 Coal volumes declining by ~4% p.a. due to declines in contracted volumes. Bulk volumes declining slightly, followed by an increase of ~2.3% p.a. 	 Coal volumes declining by ~2% p.a. due to declines in contracted volumes. Bulk volumes declining slightly, followed by an increase of ~4% p.a.
Network Revenue	 CQCN volumes declining by ~1% p.a. Revenue/tonne at 5.3. 	CQCN volumes declining by ~3% p.a.Revenue/tonne at 5.3.	 CQCN volumes declining by ~1% p.a. Revenue/tonne at 5.3.
Operating Expenses (% of Revenue)	Consistent with base case.	 Energy & fuel at 7%. Track access at 3.3%. Consumables at 14.7%. G&A at 26.4%. 	 Energy & fuel at 6%. Track access at 3%. Consumables at 14.7%. G&A at 24%.
Working Capital	 3-day increase to DSO relative to base case. DPO and other items consistent with base case. 	 DSO at 55 days, slowly rising to 58 days by end of projections. DPO at 42 days, declining to 32 by end of projections. Driven by deteriorating coal miner operations, increased gearing and tightened credit conditions. 	 3-day decline to DSO relative to base case. 8-day increase to DPO relative to base case.
Refinancing and Interest Coverage	 Revolver refinance rate at 4%. Long-term debt refinancing at 10% Rapid change; firm can't deleverage. 	Revolver refinance rate at 3%.Long-term debt refinancing at 7%.	 Revolver refinance rate at 2%. Long-term debt refinancing at 6%. No financing issues.
China Trade War	 Maintenance of current tariffs and trade blockades on coal, copper, sugar, wheat, timber, etc. Lasting throughout project period. 	 Maintenance of current tariffs and trade blockades on coal, copper, sugar, wheat, timber, etc. Lasting at least 3 years (akin to US-China trade war since 2018). 	 Trade war ends within 2021. Tariffs on coal and bulk commodities are removed. FDI resumes.
Renewables Transition	 Collective effort by major countries to shift towards net-zero emissions. Tightened financing regulations for coal-associated companies, forcing asset managers to divest coal. 	 Shift to renewables remains a priority and makes progress over the next decade. Major coal consumers follow through on projected policies and agreements. Difficult equity financing due to asset manager non-association with coal. 	 Shift to renewables takes longer than anticipated. Major coal consumers (US, China, India) regress towards coal. Lenient policies and governance for coal phase out.
ESG	Safety governance stays lagging.Compensation altered to de-incentivize growth.	 Compensation stays consistent with current practices. 	Compensation restructured and lenient Australian regulation allow for growth M&A.

Discounted Cash Flow Output



Using our base case assumptions, we arrive at an implied downside of 26%

All in \$ M	LTM	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30	FY31	FY32	FY33
Revenue	3,034.1	2,869.5	2,717.7	2,607.9	2,526.8	2,439.3	2,370.2	2,299.4	2,232.3	2,179.1	2,128.7	2,079.7	2,026.2	1,965.4
% growth		(6.4%)	(5.3%)	(4.0%)	(3.1%)	(3.5%)	(2.8%)	(3.0%)	(2.9%)	(2.4%)	(2.3%)	(2.3%)	(2.6%)	(3.0%)
EBITDA	1,493.4	1,394.6	1,320.8	1,267.5	1,228.1	1,185.5	1,152.0	1,117.6	1,084.9	1,059.1	1,034.6	1,010.8	984.8	955.2
% margin	49.2%	48.6%	48.6%	48.6%	48.6%	48.6%	48.6%	48.6%	48.6%	48.6%	48.6%	48.6%	48.6%	48.6%
EBIT	926.3	817.6	755.6	728.7	706.1	722.1	725.3	726.7	705.4	732.2	715.3	698.8	680.9	660.4
% margin	30.5%	28.5%	27.8%	27.9%	27.9%	29.6%	30.6%	31.6%	31.6%	33.6%	33.6%	33.6%	33.6%	33.6%
Tax on EBIT	(227.8)	(203.0)	(184.4)	(166.3)	(159.5)	(163.1)	(164.1)	(148.8)	(142.4)	(137.8)	(132.8)	(127.8)	(122.4)	(116.3)
NOPAT	698.5	614.5	571.1	562.5	546.6	559.0	561.3	577.9	563.1	594.4	582.5	571.0	558.4	544.1
(+) Depreciation & amortization	567.1	577.1	565.3	538.7	522.0	463.5	426.6	390.9	379.5	326.9	319.3	311.9	303.9	294.8
% of revenue	18.7%	20.1%	20.8%	20.7%	20.7%	19.0%	18.0%	17.0%	17.0%	15.0%	15.0%	15.0%	15.0%	15.0%
(-) Changes in net working capital	(21.2)	23.5	(7.1)	9.2	8.2	21.2	13.3	18.8	17.7	(0.9)	(0.9)	(0.8)	(0.9)	(1.0)
% of revenue	0.7%	(0.8%)	0.3%	(0.4%)	(0.3%)	(0.9%)	(0.6%)	(0.8%)	(0.8%)	0.0%	0.0%	0.0%	0.0%	0.1%
(-) Capital expenditures	545.2	518.0	449.8	429.0	413.1	396.4	383.5	369.1	334.8	305.1	298.0	291.2	283.7	275.2
% of revenue	(18.0%)	(18.1%)	(16.6%)	(16.5%)	(16.4%)	(16.3%)	(16.2%)	(16.1%)	(15.0%)	(14.0%)	(14.0%)	(14.0%)	(14.0%)	(14.0%)
(-) Debt service		140.8	(309.2)	174.6	174.6	178.5	178.5	230.8	230.8	272.7	272.7	272.7	272.7	272.7
% of revenue		4.9%	(11.4%)	6.7%	6.9%	7.3%	7.5%	10.0%	10.3%	12.5%	12.8%	13.1%	13.5%	13.9%
Levered free cash flows (LFCF)	741.6	509.2	1,002.9	488.5	472.7	426.4	412.6	350.1	359.2	344.3	331.9	319.9	306.9	292.1
% margin		17.7%	36.9%	18.7%	18.7%	17.5%	17.4%	15.2%	16.1%	15.8%	15.6%	15.4%	15.1%	14.9%
Discount factor (cost of equity = 6.9%)		1.0	1.0	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7
Present value of LFCF	·	503.6	958.7	451.3	422.0	367.9	344.1	282.1	279.7	259.2	241.5	224.9	208.5	191.8

DCF Valuation Output	
Long-term growth rate	(1.0%)
Enterprise value	9,697.3
Net debt	4,300.5
Equity value	5,396.8
Shares outstanding	1,863.3
Equity value per share	\$2.90
Implied upside/downside	(26%)

			Long	term growth rate	e (g):	
		(2.0%)	(1.5%)	(1.0%)	(0.5%)	0.0%
Discount rate	9.0%	(31.9%)	(31.7%)	(31.5%)	(31.2%)	(31.0%)
	8.0%	(29.2%)	(28.9%)	(28.6%)	(28.3%)	(28.0%)
	7.0%	(26.1%)	(25.8%)	(25.5%)	(25.0%)	(24.5%)
۵	6.0%	(22.5%)	(22.1%)	(21.6%)	(21.0%)	(20.4%)
	5.0%	(18.3%)	(17.7%)	(17.0%)	(16.3%)	(15.5%)

Relative Valuation



Trading multiples against Tier 1 large cap peers

All in \$M, except per share data and percentages	Entrerprise Value/								
Company	LTM Sales	LTM EBITDA	LTM EBIT	LTM FFO	LTM EPS				
Aurizon Holdings Limited	3.6x	7.4x	11.7x	8.3x	13.7x				
Income Statement Figure:	3,034	1,468	929	1,321	0.28				
Tier I: Large-Cap	_	_	_	<u>_</u>					
Union Pacific Corporation	8.6x	16.7x	21.4x	19.8x	27.2x				
Canadian National Railway Company	8.6x	16.6x	21.4x	19.3x	29.5x				
CSX Corporation	8.0x	14.6x	19.1x	19.8x	25.8x				
Norfolk Southern Corporation	7.9x	16.7x	22.3x	21.3x	33.3x				
Canadian Pacific Railway Limited	9.7x	17.0x	20.4x	26.6x	26.6x				
Transurban Group	16.5x	33.0x	nmf	61.6x	nmf				
Kansas City Southern	9.2x	17.4x	23.4x	22.5x	34.3x				
Daqin Railway Co., Ltd.	1.5x	5.4x	8.4x	7.8x	9.7x				
West Japan Railway Company	2.4x	nmf	nmf	nmf	-6.7x				
Rumo S.A.	6.8x	14.6x	25.5x	16.2x	nmf				
GMéxico Transportes, S.A.B. de C.V.	3.2x	7.3x	11.3x	8.2x	19.4x				
High	16.5x	33.0x	25.5x	61.6x	34.3x				
Low	1.5x	5.4x	8.4x	7.8x	(6.7x)				
Mean	7.5x	15.9x	19.3x	22.3x	22.1x				
Median	8.0x	16.7x	21.4x	19.8x	26.6x				

Football Field Valuation Summary



Trading Comparables



Operating data and benchmarking against Tier 1 large cap peers

All in \$M, except per share data and percentages	_Market Valuation_				LTM Financial Statistics			LTM Profitability Margins (%)				Growth Rate						
										Sale		EBITDA		EPS				
Company	Equity I Value	Enterprise Value		Gross Profit	EBITDA	EBIT	Net Income	Gross Profit	EBITDA	EBIT	Net Income	Hist. 1-year	Est. 1-year	Hist. 1-year	Est. 1-year	Hist. 1-year	Est. 1-year	Est. 2-year
Aurizon Holdings Limited	5,559	8,538	2,341	1,165	1,133	717	415	50%	48%	31%	18%	2%	(1%)	1%	1%	(7%)	1%	3%
Tier I: Large-Cap																		
Union Pacific Corporation	143,404	169,878	19,533	11,433	10,088	7,878	5,349	59%	52%	40%	27%	(10%)	7%	(7%)	10%	(6%)	0%	0%
Canadian National Railway Company	82,068	92,283	10,845	6,023	5,625	4,378	2,795	56%	52%	40%	26%	(7%)	7%	(5%)	10%	(14%)	12%	13%
CSX Corporation	71,561	85,644	10,583	5,795	5,795	4,412	2,765	55%	55%	42%	26%	(11%)	8%	(9%)	11%	(14%)	21%	17%
Norfolk Southern Corporation	65,860	78,393	9,789	4,632	4,632	3,478	2,013	47%	47%	36%	21%	(13%)	10%	(11%)	16%	(24%)	21%	17%
Canadian Pacific Railway Limited	49,671	57,628	6,051	3,577	3,445	2,867	1,918	59%	57%	47%	32%	(1%)	8%	5%	11%	3%	15%	13%
Transurban Group	27,828	41,758	2,483	1,363	1,245	358	(495)	55%	50%	14%	(20%)	(17%)	(9%)	(21%)	(2%)	nmf	0%	0%
Kansas City Southern	19,582	23,567	2,633	1,414	1,397	1,039	617	54%	53%	39%	23%	(8%)	13%	(0%)	18%	21%	29%	24%
Daqin Railway Co., Ltd.	15,761	16,198	10,709	2,083	2,997	1,909	1,543	19%	28%	18%	14%	(9%)	(8%)	(20%)	(20%)	(26%)	(22%)	(3%)
West Japan Railway Company	11,453	23,561	9,704	(239)	(293)	(1,997)	(1,837)	(2%)	(3%)	(21%)	(19%)	(35%)	(39%)	nmf	0%	nmf	0%	(85%)
Rumo S.A.	6,568	8,929	1,341	432	623	355	57	32%	46%	26%	4%	(2%)	19%	(13%)	20%	(64%)	105%	68%
GMéxico Transportes, S.A.B. de C.V.	5,520	7,382	2,317	1,153	1,012	659	297	50%	44%	28%	13%	(3%)	12%	6%	14%	(2%)	28%	24%
Mean								44%	43%	27%	12%	(11%)	2%	(8%)	8%	(15%)	21%	9%
Median								54%	50%	36%	21%	(9%)	8%	(8%)	11%	(14%)	15%	13%

Trading Comparables



Return/solvency data and benchmarking against Tier 1 large cap peers

	General Int	formation	Return on Investment (%) LTM Leverage Ratios				tios	LTM Covera	Credit Rating				
Company	FYE	Predicted Beta	ROIC	ROE	ROA	Implied Div. Yield	Debt / Capital	Debt / EBITDA	Net Debt / EBITDA	EBITDA / Int. Exp.	EBIT / Int. Exp.	S&P	
Aurizon Holdings Limited	Jun-30	0.49	0%	12%	6%	7%	48%	2.6x	2.6x	5.9x	5.8x	x BBB+	
Tier I: Large-Cap													
Union Pacific Corporation	Dec-31	1.11	6%	30%	8%	2%	63%	2.7x	2.6x	6.5x	6.9x	A-	
Canadian National Railway Company	Dec-31	0.62	6%	19%	8%	2%	40%	1.8x	1.7x	8.2x	10.1x	Α	
CSX Corporation	Dec-31	1.16	7%	22%	7%	1%	57%	2.9x	2.4x	5.6x	5.9x	BBB+	
Norfolk Southern Corporation	Dec-31	1.32	4%	13%	6%	2%	48%	2.8x	2.5x	5.5x	5.6x	BBB+	
Canadian Pacific Railway Limited	Dec-31	0.71	12%	34%	10%	1%	58%	2.2x	2.2x	6.1x	7.9x	BBB+	
Transurban Group	Dec-31	0.45	(7%)	(7%)	1%	2%	70%	11.3x	10.5x	1.5x	0.5x	nmf	
Kansas City Southern	Dec-31	1.01	6%	14%	7%	1%	47%	2.7x	2.6x	6.2x	6.9x	BBB	
Daqin Railway Co., Ltd.	Sep-30	0.32	2%	10%	5%	7%	7%	0.4x	nmf	36.3x	28.8x	nmf	
West Japan Railway Company	Dec-31	0.55	(8%)	(17%)	(4%)	2%	60%	nmf	nmf	nmf	nmf	nmf	
Rumo S.A.	Dec-31	0.43	1%	3%	3%	0%	60%	6.4x	3.6x	0.3x	1.1x	BB-	
GMéxico Transportes, S.A.B. de C.V.	Dec-31	0.60	2%	13%	7%	4%	36%	1.7x	1.5x	5.8x	5.3x	nmf	
Mean		0.75	3%	12%	5%	2%	50%	3.6x	3.4x	8.4x	8.0x		
Median		0.62	4%	13%	7%	2%	57%	2.7x	2.5x	6.0x	6.4x		

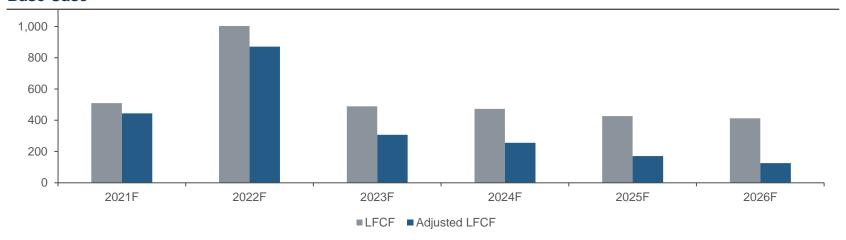
Appendices

Considering Margin Degradation (Considering Fixed Operating Costs)



Cash flow available to equity approaches zero by 2026 in worse case scenario

Base Case



Worst Case



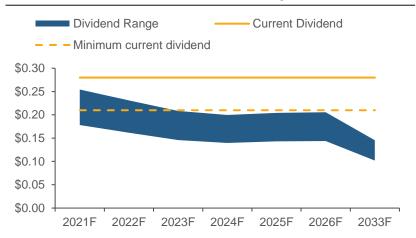
Dividend and Credit Rating Degradation



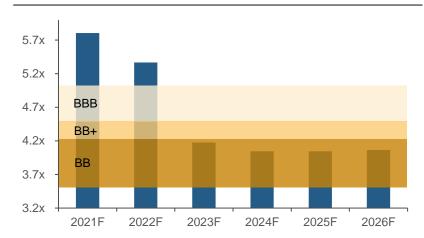
TFS Investment Group

Dividends to be continuously cut and credit rating downgraded to non-investment grade by 2023

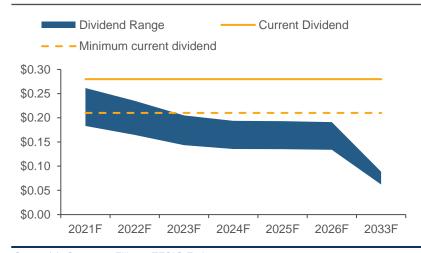
Dividend Cuts on Base Case Assumptions



Synthetic Credit Rating Downgrades on Base Case



Dividend Cuts on Worst Case Assumptions



Credit Statistic Degradation on Base Case

Dividend Cut (Base Case)

- Dividend to drop below minimum guidance payout of 75% by 2023 based on 2020 net income.
- By 2022, guidance payout range of 75% to 100% implies a dividend range that has not been seen since 2014.

Credit Rating Downgrade (Base Case)

- Aurizon's most recent debt issue on March 9, 2021 received a credit rating of BBB+ with a FY 2020 coverage ratio of 6.3x.
- We created a synthetic credit rating scale based on a commonly used synthetic credit rating scale produced by Prof. Aswath Damodaran.
- Synthetic credit rating scale implies that Aurzion's debt should be rated BB by 2023.

ESG-Adjusted Synthetic Credit Rating Scale



Scale is based off the firm's interest coverage ratio

	Synthetic Credi	t Rating Scale	
Lower Bound	Upper Bound	Rating	Spread
8.50		Aaa/AAA	0.63%
6.50	8.49	Aa2/AA	0.78%
5.50	6.49	A1/A+	0.98%
4.25	5.49	A2/A	1.08%
3.00	4.24	A3/A-	1.22%
2.50	2.99	Baa2/BBB	1.56%
2.25	2.49	Ba1/BB+	2.00%
2.00	2.24	Ba2/BB	2.40%
1.75	1.99	B1/B+	3.51%
1.50	1.74	B2/B	4.21%
1.25	1.49	B3/B-	5.15%
0.80	1.24	Caa/CCC	8.20%
0.65	0.79	Ca2/CC	8.64%
0.20	0.64	C2/C	11.34%
	0.19	D2/D	15.12%

Sy	nthetic Credit Rati	ng Scale (Adjuste	ed)
Lower Bound	Upper Bound	Rating	Spread
10.50		Aaa/AAA	0.63%
8.50	10.49	Aa2/AA	0.78%
7.50	8.49	A1/A+	0.98%
6.25	7.49	A2/A	1.08%
5.00	6.24	A3/A-	1.22%
4.50	4.99	Baa2/BBB	1.56%
4.25	4.49	Ba1/BB+	2.00%
4.00	4.24	Ba2/BB	2.40%
3.75	3.99	B1/B+	3.51%
3.50	3.74	B2/B	4.21%
3.25	3.49	B3/B-	5.15%
2.80	3.24	Caa/CCC	8.20%
2.65	2.79	Ca2/CC	8.64%
2.20	2.64	C2/C	11.34%
	2.19	D2/D	15.12%

We've adjusted the interest coverage bounds by 2 at each level based on ESG-risks, market premium, and a size factor.

Aurizon's Capital Structure



TFS Investment Group

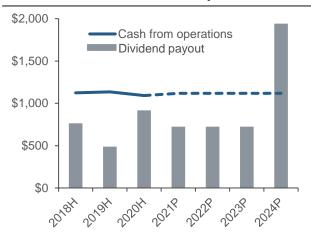
Deteriorating cash flows will downgrade Aurizon's credit rating and cut dividends and buybacks

Capital Structure

	Amt Out	Market Price	Credit Rating	Maturity
Revolver Debt				
364-day revolver	450.00			Nov-23
364-day revolver	530.00			Dec-23
Total Revolver Debt	980.00	980.00		Nov-23
Bond Debt				
senior unsecured note A	425.00	108%	BBB+	Jun-24
senior unsecured note B	792.80	107%	BBB+	Aug-24
senior unsecured note C	792.80	114%	BBB+	Jun-26
senior unsecured note D	201.80	UK ²	uK UK	Dec-27
senior unsecured note D	82.00	UK	UK	Mar-30
senior unsecured note E	500.00	101%	BBB+	Mar-28
Total Bond Debt	2,794.40	2,994.28	1	Feb-26
Total Debt	3,774.40	3,974.28		
Common Equity		7,177.00		

<u>Liquidity</u>		Credit Statistics		
Cash and cash equivalents	8.00	EBIT / Interest Expense	3	6.16
Undrawn revolvers	445.00	Net Debt / EBITDA		2.66
Current ratio	0.74	Total Debt / Equity		0.55
Quick ratio	0.43	EBITDA		1,493.40
Total Liquidity 2	453.00	Interest Expense		150.40

Cash Flow Vs. Investor Expectations



Aurizon has significant bond maturities upcoming in 2024 and has traditionally kept a ~100% payout ratio.

Capital Structure Commentary

- Aurizon's debt has held a BBB+ credit rating up to its most recent issue on March 9, 2020 with a weighted average maturity of 5 years (September 2026).
- Aurizon relies on revolving facilities to finance working capital.
- Aurizon's largest revenue-generating segment of coal is expected to decline, likely leading to a substantial decrease in its interest coverage ratio.

Source(s): TFSIG Estimates, Company Filings, FactSet

^{1.} UK = unknown

Base Case Income Statement



	2019H	2020H	LTM	2021F	2022F	2023F	2024F	2025F	2026F	2033F
Revenue	2,908	3,065	3,034	2,869	2,718	2,608	2,527	2,439	2,370	1,965
Operating Expenses										
G&A	(779)	(792)	(804)	(758)	(717)	(688)	(667)	(644)	(626)	(519)
Consumables	(398)	(441)	(445)	(422)	(399)	(383)	(371)	(359)	(348)	(289)
Energy & Fuel	(234)	(231)	(202)	(201)	(190)	(183)	(177)	(171)	(166)	(138)
Track Access	(101)	(107)	(90)	(95)	(90)	(86)	(83)	(80)	(78)	(65)
Depreciation & amortization	(543)	(559)	(567)	(577)	(565)	(539)	(522)	(463)	(427)	(295)
Operating Income	854	935	926	818	756	729	706	722	725	660
Other Income - Net	(25)	(26)	(19)	-	-	=	=	-	-	-
Interest expense	(147)	(149)	(150)	(141)	(141)	(175)	(175)	(178)	(178)	(273)
Equity investment income	0	(0)	0	-	-	-	-	-	-	-
Pretax profit	682	760	757	677	615	554	532	544	547	388
Taxes	(209)	(261)	(228)	(203)	(184)	(166)	(159)	(163)	(164)	(116)
Consolidated Net income	473	500	529	474	430	388	372	381	383	271
Minority Interest	-	-	-	-	-	-	-	-	-	-
Net Income from continuing ops	473	500	529	474	430	388	372	381	383	271
Discontinued Operations	3	11	7	=	-	=	=	-	-	-
Net Income	477	510	536	474	430	388	372	381	383	271

Base Case Balance Sheet



	2019H	2020H	LTM	2021F	2022F	2023F	2024F	2025F	2026F	2033F
Cash	25	29	8	8	8	8	8	8	8	8
Receivables	482	460	330	535	410	393	388	388	377	312
Inventory	117	146	151	129	122	117	114	110	107	88
Other current assets	115	80	97	100	95	91	88	85	83	69
Total current assets	740	715	586	772	635	610	598	591	574	478
Net property, plant & equipment	8,536	8,537	8,526	8,467	8,351	8,242	8,133	8,066	8,023	7,852
Equity accounted investments	3	3	25	25	25	25	25	25	25	25
Derivative financial instruments	197	221	160	160	160	160	160	160	160	160
Intangible assets	177	188	204	204	204	204	204	204	204	204
Other assets	9	71	70	70	70	70	70	70	70	70
LT Inventories	40	38	40	40	40	40	40	40	40	40
Total assets	9,701	9,772	9,611	9,738	9,486	9,350	9,230	9,156	9,096	8,829
Accounts payable	407	323	238	423	313	293	284	267	247	172
Provisions	273	271	263	249	235	226	219	211	205	170
ST borrowings and current portion of LT borrowings	149	658	101	-	-	980	=	1,586	-	-
Current tax liabilities	41	83	45	45	45	45	45	45	45	45
Other liabilities	79	137	144	136	129	124	120	116	112	93
Total current liabilities	949	1,472	790	852	722	1,667	667	2,225	609	480
Long term debt	3,221	2,950	3,673	3,774	4,224	3,244	4,224	2,639	4,224	4,224
Derivative financial instruments	49	46	53	53	53	53	53	53	53	53
Deferred tax liability	537	605	638	638	638	638	638	638	638	638
Other liabilities	205	277	276	276	276	276	276	276	276	276
Provisions	63	64	71	71	71	71	71	71	71	71
Total liabilities	5,024	5,414	5,501	5,664	5,984	5,949	5,929	5,901	5,871	5,743
Common stock	907	507	260	260	260	260	260	260	260	260
Reserves	3,419	3,395	3,384	3,384	3,384	3,384	3,384	3,384	3,384	3,384
Retained earnings	352	456	466	430	(142)	(243)	(343)	(389)	(419)	(557)
Total shareholder's equity	4,677	4,358	4,110	4,074	3,502	3,401	3,300	3,254	3,225	3,086

Base Case Cash Flow



All in \$ M	2021F	2022F	2023F	2024F	2025F	2026F	2033F
ЕВІТ	818	756	729	706	722	725	660
% margin	28.5%	27.8%	27.9%	27.9%	29.6%	30.6%	33.6%
Cash flow available for debt service	650	1,144	663	1,627	605	2,177	565
% margin	22.7%	42.1%	25.4%	64.4%	24.8%	91.8%	28.7%
Levered free cash flow	509	1,003	488	473	426	413	292
% margin	17.7%	36.9%	18.7%	18.7%	17.5%	17.4%	14.9%
Interest coverage ratio	5.8x	5.4x	4.2x	4.0x	4.0x	4.1x	3.1x
Dividend per share	0.27	0.54	0.26	0.25	0.23	0.22	0.19
% Yield on current price	7.1%	14.0%	6.8%	6.6%	5.9%	5.7%	4.9%

All in \$ M	2021F	2022F	2023F	2024F	2025F	2026F	2033F
Cash inflow	2,869	3,168	2,608	2,527	2,439	2,370	1,965
Cash outflow	2,360	2,165	2,119	2,054	2,013	1,958	1,673
Dividends @ 100% payout	509	1,003	488	473	426	413	292

Worst Case Income Statement



All in \$ M	2019H	2020H	LTM	2021F	2022F	2023F	2024F	2025F	2026F	2033F
Revenue	2,908	3,065	3,034	2,839	2,660	2,526	2,422	2,314	2,226	1,717
Operating Expenses										
G&A	(779)	(792)	(804)	(749)	(702)	(667)	(640)	(611)	(588)	(453)
Consumables	(398)	(441)	(445)	(417)	(391)	(371)	(356)	(340)	(327)	(252)
Energy & Fuel	(234)	(231)	(202)	(199)	(186)	(177)	(170)	(162)	(156)	(120)
Track Access	(101)	(107)	(90)	(94)	(88)	(83)	(80)	(76)	(73)	(57)
Depreciation & amortization	(543)	(559)	(567)	(543)	(527)	(497)	(476)	(417)	(378)	(240)
Operating Income	854	935	926	837	766	731	701	708	703	594
Other Income - Net	(25)	(26)	(19)	-	-	-	-	-	-	-
Interest expense	(147)	(149)	(150)	(141)	(141)	(186)	(186)	(195)	(195)	(359)
Equity investment income	0	(0)	0	-	-	-	-	-	-	-
Pretax profit	682	760	757	696	625	545	515	514	509	235
Taxes	(209)	(261)	(228)	(209)	(188)	(164)	(155)	(154)	(153)	(71)
Consolidated Net income	473	500	529	487	438	382	361	360	356	165
Minority Interest	-	-	-	-	=	-	-	-	-	-
Net Income from continuing ops	473	500	529	487	438	382	361	360	356	165
Discontinued Operations	3	11	7	-	=	=	=	=	-	-
Net Income	477	510	536	487	438	382	361	360	356	165

Worst Case Balance Sheet



All in \$ M	2019H	2020H	LTM	2021F	2022F	2023F	2024F	2025F	2026F	2033F
Cash	25	29	8	8	8	8	8	8	8	8
Receivables	482	460	330	572	423	401	392	387	372	287
Inventory	117	146	151	170	160	152	145	139	134	103
Other current assets	115	80	97	114	106	101	97	93	89	69
Total current assets	740	715	586	864	697	662	642	626	603	467
Net property, plant & equipment	8,536	8,537	8,526	8,475	8,368	8,268	8,170	8,112	8,077	7,957
Equity accounted investments	3	3	25	25	25	25	25	25	25	25
Derivative financial instruments	197	221	160	160	160	160	160	160	160	160
Intangible assets	177	188	204	204	204	204	204	204	204	204
Other assets	9	71	70	70	70	70	70	70	70	70
LT Inventories	40	38	40	40	40	40	40	40	40	40
Total assets	9,701	9,772	9,611	9,838	9,564	9,429	9,311	9,237	9,179	8,923
Accounts payable	407	323	238	447	321	298	285	266	244	160
Provisions	273	271	263	246	230	219	210	200	193	149
ST borrowings and current portion of LT borrowings	149	658	101	=	-	980	-	1,586	-	-
Current tax liabilities	41	83	45	45	45	45	45	45	45	45
Other liabilities	79	137	144	135	126	120	115	110	106	81
Total current liabilities	949	1,472	790	872	722	1,661	655	2,207	587	435
Long term debt	3,221	2,950	3,673	3,774	4,224	3,244	4,224	2,639	4,224	4,224
Derivative financial instruments	49	46	53	53	53	53	53	53	53	53
Deferred tax liability	537	605	638	638	638	638	638	638	638	638
Other liabilities	205	277	276	276	276	276	276	276	276	276
Provisions	63	64	71	71	71	71	71	71	71	71
Total liabilities	5,024	5,414	5,501	5,684	5,984	5,943	5,917	5,883	5,849	5,697
Common stock	907	507	260	260	260	260	260	260	260	260
Reserves	3,419	3,395	3,384	3,384	3,384	3,384	3,384	3,384	3,384	3,384
Retained earnings	352	456	466	510	(64)	(157)	(250)	(290)	(314)	(418)
Total shareholder's equity	4,677	4,358	4,110	4,154	3,580	3,486	3,394	3,354	3,330	3,226



All in \$ M	2021F	2022F	2023F	2024F	2025F	2026F	2033F
ЕВІТ	837	766	731	701	708	703	594
% margin	29.5%	28.8%	28.9%	28.9%	30.6%	31.6%	34.6%
Cash flow available for debt service	584	1,152	661	1,619	594	2,161	539
% margin	20.6%	43.3%	26.2%	66.8%	25.7%	97.1%	31.4%
Levered free cash flow	443	1,012	475	453	399	380	180
% margin	15.6%	38.0%	18.8%	18.7%	17.3%	17.1%	10.5%
Interest coverage ratio	5.9x	5.4x	3.9x	3.8x	3.6x	3.6x	2.4x
Dividend per share	0.24	0.55	0.26	0.24	0.22	0.21	0.15
% Yield on current price	6.2%	14.1%	6.6%	6.3%	5.6%	5.3%	4.0%

All in \$ M	2021F	2022F	2023F	2024F	2025F	2026F	2033F
Cash inflow	2,839	3,110	2,526	2,422	2,314	2,226	1,717
Cash outflow	2,395	2,099	2,051	1,969	1,915	1,845	1,536
Dividends @ 100% payout	443	1,012	475	453	399	380	180

Best Case Income Statement



All in \$ M	2019H	2020H	LTM	2021F	2022F	2023F	2024F	2025F	2026F	2033F
Revenue	2,908	3,065	3,034	2,923	2,820	2,755	2,718	2,671	2,642	2,482
Operating Expenses										
G&A	(779)	(792)	(804)	(702)	(677)	(661)	(652)	(641)	(634)	(596)
Consumables	(398)	(441)	(445)	(430)	(414)	(405)	(399)	(393)	(388)	(365)
Energy & Fuel	(234)	(231)	(202)	(175)	(169)	(165)	(163)	(160)	(159)	(149)
Track Access	(101)	(107)	(90)	(88)	(85)	(83)	(82)	(80)	(79)	(74)
Depreciation & amortization	(543)	(559)	(567)	(610)	(608)	(590)	(582)	(528)	(495)	(391)
Operating Income	854	935	926	919	867	851	840	869	886	907
Other Income - Net	(25)	(26)	(19)	-	-	-	-	-	-	-
Interest expense	(147)	(149)	(150)	(141)	(141)	(168)	(168)	(169)	(169)	(222)
Equity investment income	0	(0)	0	-	-	-	-	-	-	-
Pretax profit	682	760	757	778	726	683	672	700	717	686
Taxes	(209)	(261)	(228)	(233)	(218)	(205)	(202)	(210)	(215)	(206)
Consolidated Net income	473	500	529	545	508	478	470	490	502	480
Minority Interest	-	-	-	-	=	-	-	-	-	-
Net Income from continuing ops	473	500	529	545	508	478	470	490	502	480
Discontinued Operations	3	11	7	-	-	=	-	=	-	-
Net Income	477	510	536	545	508	478	470	490	502	480

Best Case Balance Sheet



All in \$ M	2019H	2020H	LTM	2021F	2022F	2023F	2024F	2025F	2026F	2033F
Cash	25	29	8	8	8	8	8	8	8	8
Receivables	482	460	330	503	402	392	395	402	398	374
Inventory	117	146	151	117	113	110	109	107	106	99
Other current assets	115	80	97	88	85	83	82	80	79	74
Total current assets	740	715	586	715	607	593	593	597	591	556
Net property, plant & equipment	8,536	8,537	8,526	8,473	8,360	8,251	8,141	8,074	8,033	7,875
Equity accounted investments	3	3	25	25	25	25	25	25	25	25
Derivative financial instruments	197	221	160	160	160	160	160	160	160	160
Intangible assets	177	188	204	204	204	204	204	204	204	204
Other assets	9	71	70	70	70	70	70	70	70	70
LT Inventories	40	38	40	40	40	40	40	40	40	40
Total assets	9,701	9,772	9,611	9,688	9,467	9,344	9,233	9,171	9,123	8,929
Accounts payable	407	323	238	563	386	370	365	351	333	272
Provisions	273	271	263	253	244	239	235	231	229	215
ST borrowings and current portion of LT borrowings	149	658	101	-	-	980	-	1,586	-	_
Current tax liabilities	41	83	45	45	45	45	45	45	45	45
Other liabilities	79	137	144	139	134	131	129	127	125	118
Total current liabilities	949	1,472	790	1,000	809	1,764	774	2,340	732	649
Long term debt	3,221	2,950	3,673	3,774	4,224	3,244	4,224	2,639	4,224	4,224
Derivative financial instruments	49	46	53	53	53	53	53	53	53	53
Deferred tax liability	537	605	638	638	638	638	638	638	638	638
Other liabilities	205	277	276	276	276	276	276	276	276	276
Provisions	63	64	71	71	71	71	71	71	71	71
Total liabilities	5,024	5,414	5,501	5,812	6,071	6,046	6,036	6,016	5,994	5,912
Common stock	907	507	260	260	260	260	260	260	260	260
Reserves	3,419	3,395	3,384	3,384	3,384	3,384	3,384	3,384	3,384	3,384
Retained earnings	352	456	466	232	(248)	(346)	(447)	(489)	(515)	(626)
Total shareholder's equity	4,677	4,358	4,110	3,876	3,395	3,298	3,197	3,155	3,129	3,018

Best Case Cash Flow



All in \$ M	2021F	2022F	2023F	2024F	2025F	2026F	2033F
ЕВІТ	919	867	851	840	869	886	907
% margin	31.4%	30.8%	30.9%	30.9%	32.6%	33.6%	36.6%
Cash flow available for debt service	919	1,130	744	1,719	702	2,283	719
% margin	31.5%	40.1%	27.0%	63.2%	26.3%	86.4%	29.0%
Levered free cash flow	779	989	576	571	532	528	498
% margin	26.6%	35.1%	20.9%	21.0%	19.9%	20.0%	20.1%
Interest coverage ratio	6.5x	6.2x	5.1x	5.0x	5.1x	5.2x	4.6x
Dividend per share	0.42	0.53	0.31	0.31	0.29	0.28	0.26
% Yield on current price	10.8%	13.8%	8.0%	8.0%	7.4%	7.4%	6.8%

All in \$ M	2021F	2022F	2023F	2024F	2025F	2026F	2033F
Cash inflow	2,923	3,270	2,755	2,718	2,671	2,642	2,482
Cash outflow	2,145	2,281	2,179	2,147	2,139	2,114	1,984
Dividends @ 100% payout	779	989	576	571	532	528	498

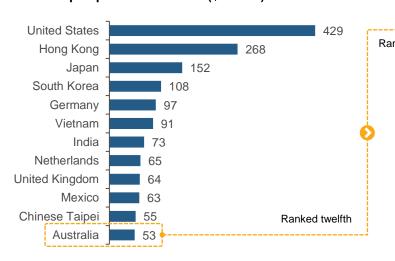
Closer Look at Australia—China Trade



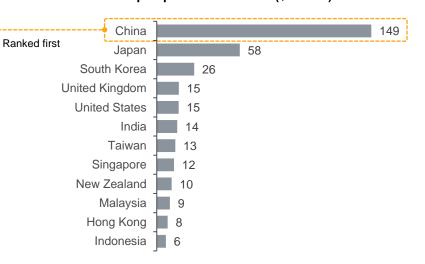
An uneven power dynamic favours China's position in this trade war

Australia's Low on the China's Export Pecking Order

China's top export destinations (\$B USD)



Australia's top export destinations (\$B AUD)



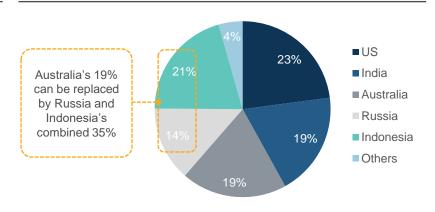
Styles of Government Clash

- Despite having the United States as its largest trading partner, China has not been passive in the trade war, having levied billions of dollars' worth of tariffs.
- Neither country willing to concede ground or backpedal on claims and accusations.

Making Up For Lost Ground

- Xi Jinping & Vladimir Putin agreed to pursue cooperation over energy and infrastructure interests.
- The Elga Project aims to deliver 30Mt of coal by 2023, effectively replacing Australia's full export volume.
- Indonesia signed a deal to export 28Mt of coal under a deal signed in November 2020.

China Import Partner Coal Production Capacity

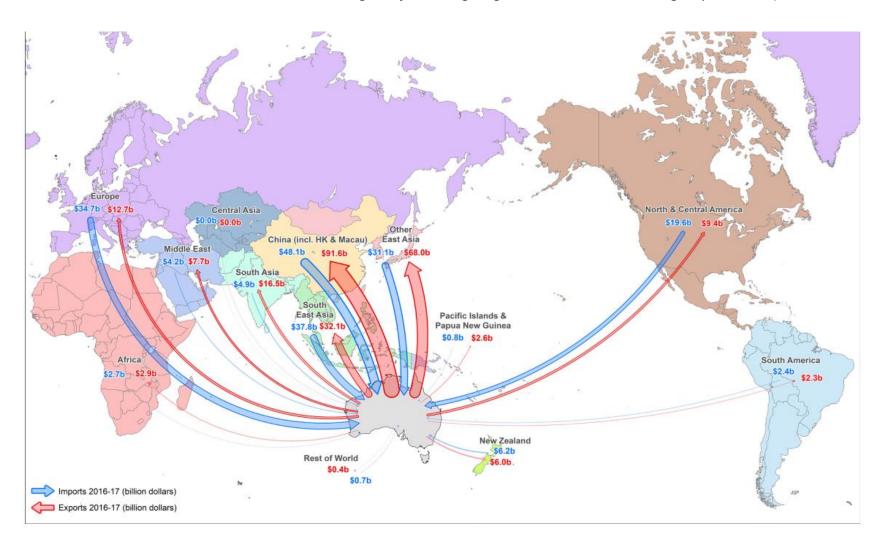


Australian Shipping



TFS Investment Group

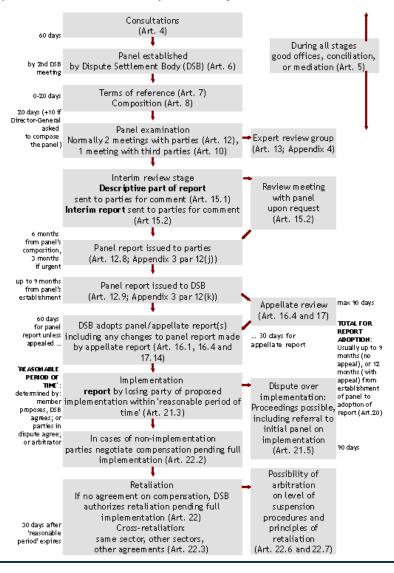
Value of Australia's international sea freight by trading region of destination/origin (2016-17)



WTO Dispute Resolution

AURIZON. TFS Investment Group

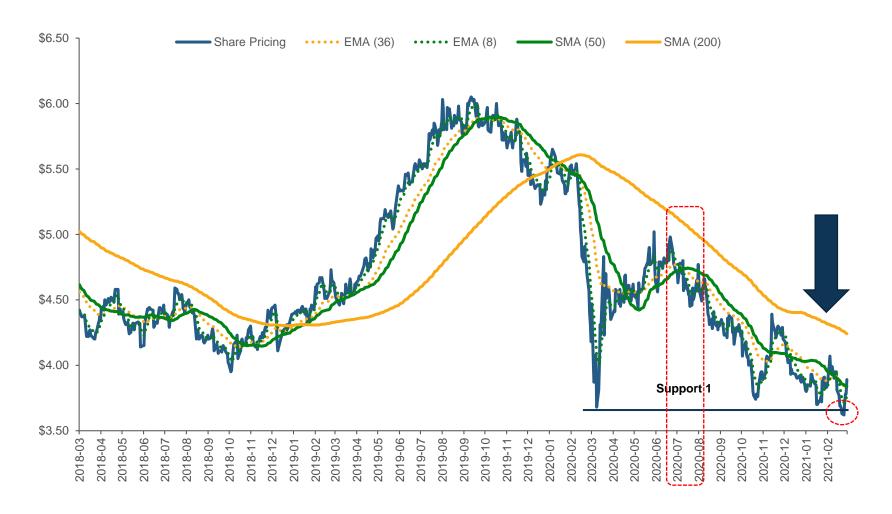
Overall dispute settlement process can take up to 2-3 years



Technical Analysis



Negative continuation pattern highlighted via negative EMA price signals and breached support.





The University of Ottawa's only student-run investment club

JAMES PATSULA



CEO

James is a Bachelor of Commerce student set to graduate in December of 2021. James has worked at Brookfield Renewable in FP&A and is scheduled to complete an internship at TD Securities this summer.

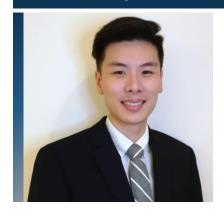
LUCAS HERVATO



PORTFOLIO MANAGER

Lucas is a Bachelor of Commerce student graduating in December of 2021. Lucas has interned at RBC DS, Brookfield Renewable, and it scheduled to complete an internship at RBC GAM's CIO Office this summer.

NATHAN PO



PORTFOLIO MANAGER

Nathan is a Bachelor of Commerce student set to graduate this May. Nathan has broad experience in the finance industry having interned at EY and RBC. He most recently interned at Ford Motors' Government Relations & Strategy Department.

DAVID MACNEILL



PORTFOLIO MANAGER

David is a Bachelor of Commerce student set to graduate in the Spring of 2023. He is scheduled to complete an equity research internship this summer at Gluskin Sheff, an Investment management firm under Onex.



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TFS Investment Group