

Non-deal Roadshow Presentation

THE FUTURE IS WORTH IT

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1. Business Overview



TCC – Transformation into "A True Global Green Tech Company"

- Taiwanese Blue-Chip Stock Focused on Dividend Yield
- Conventional Cement + Chemicals + Power Business



Pre 2018: Leading Greater Mainland China Cement Player

- Global Low Carbon Cement
- Turn Waste Treatment into Alternative Fuel & Materials
- Renewable Energy
- Energy Storage Systems, EV Charging, Power Batteries

Today: Global Circular Economy Pioneer



- Carbon Emission: Net Zero by 2050
- Global Grid-scale Renewables, Fast Charging EV to Grid Network, Batteries for EV and Aerospace
- New Growth and Sustainable Margin Opportunities with Global Green Cement



Conventional Business

Cement

Leading cement producer with over ³⁄₄ **of a century** of industry experience · **No. 1** cement manufacturer in Taiwan since inception, with over **30%** market share and an annual capacity of **10.4mm tons**, investment in **Iow-emission and Iow-carbon cement** and related material technology

Key cement producer in Mainland China, with **leading position in Southern Mainland China** with **66.5mm tons** in annual capacity **Conventional Power Generation**

Key assets that form an important part of **Taiwan's power supply** combined with **waste treatment** services





Transformation Business

Installed capacity estimated to reach >190 MW, and Renewable electricity generation >288 million kWh by the end of 2023

ΝΗΟΑ ΤΟ ΝΗΩΑ

Offers advanced **BESS** (Battery Energy Storage Systems), **fast** charging devices for electric vehicles, and becoming one of the largest V2G providers

Molicel Molicel

Manufacture high performance, superior quality **lithium-ion power** cells and battery pack products

Mission and Vision

TCC stands for Total Climate Commitment & Total Care Commitment for the mutual benefit and harmony with Earth and life We are a green environmental engineering company dedicated to handling the complex relationship between human civilization and Nature

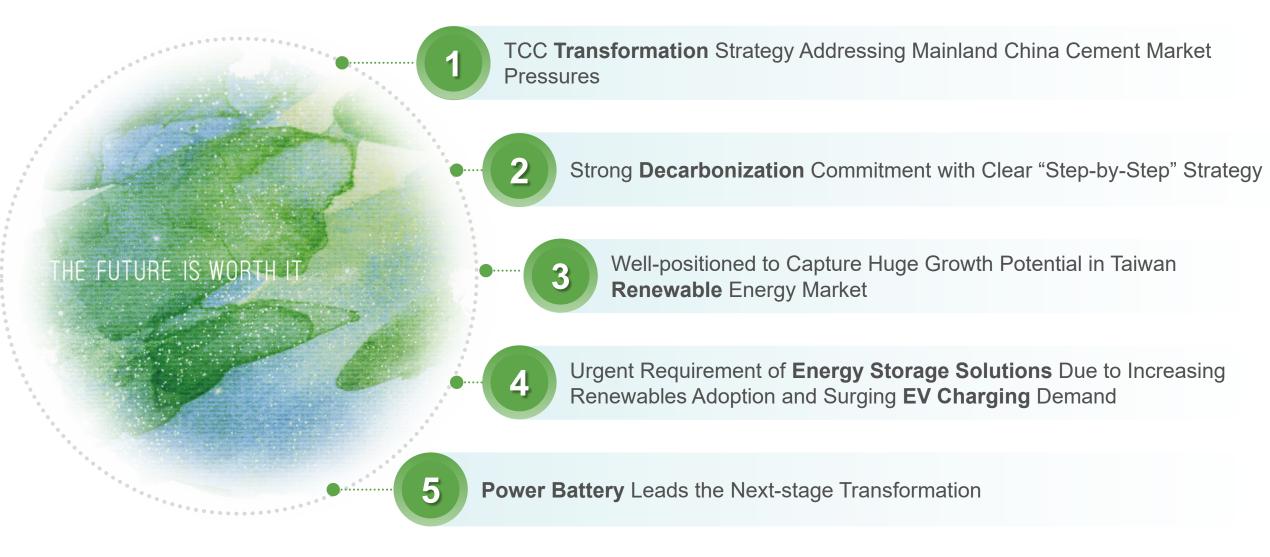
Cement is **glue of civilization**, allowing humankind to live in an urban life

We have also become the **city's waste purifier**, waste treatment and disposal is integral part of our solutions

2. Total Climate Commitment, Total Care Commitment



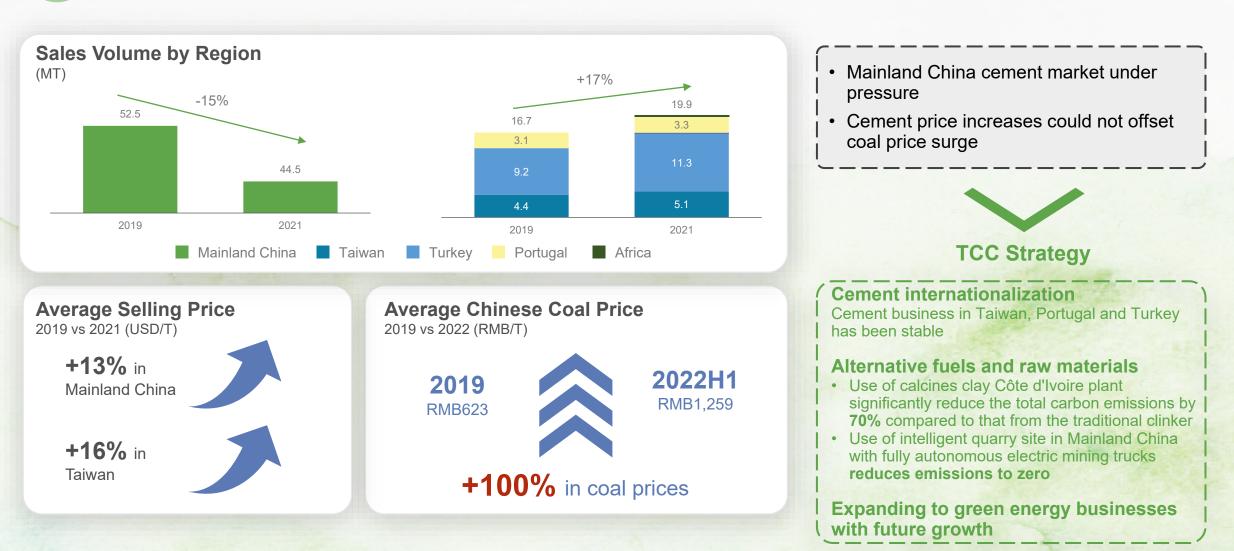
Total Climate Commitment, Total Care Commitment





TCC Strategy to Address Mainland China Cement Market Pressures

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Reduced Carbon and Improve Profitability

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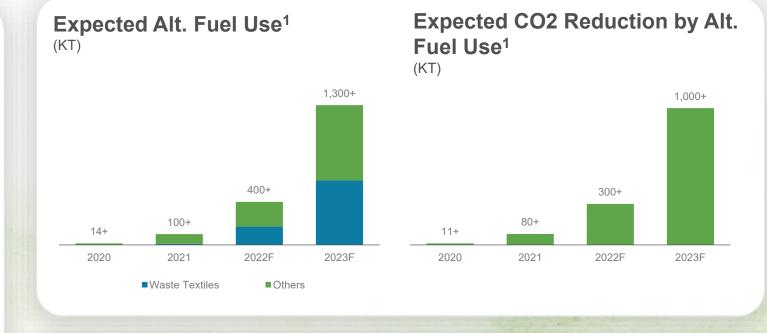






Reduce carbon emissions

Cost-saving: Alternative fuel cost is 1/3 – 1/2 of coal cost



Expected Annual Cost Savings

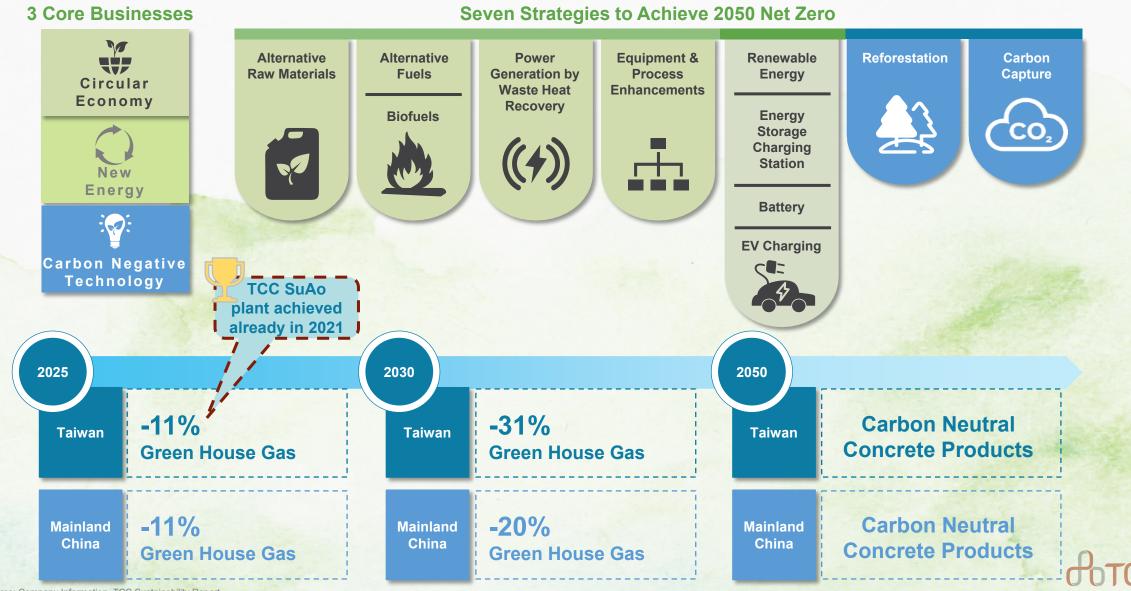
15% Alt. Fuel	25% Alt. Fuel	35% Alt. Fuel
[•] 80MM Savings	~ 140MM Savings	~ 200MM Savings



Source: Company Websites, Company Filings, Public News ¹ Figures do not include European assets.

2 Step-by-Step Strategy...

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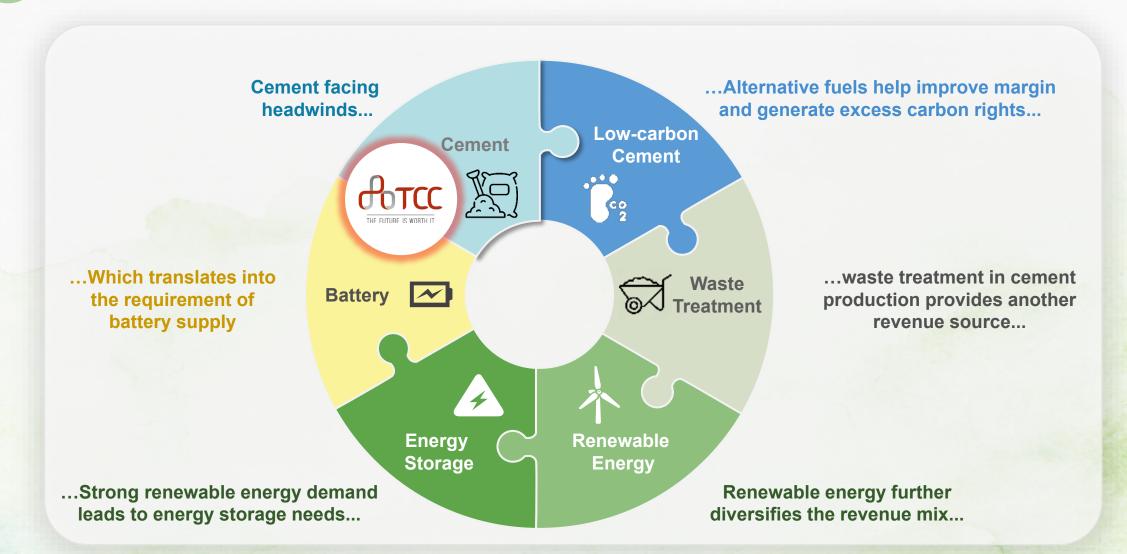
Source: Company Information, TCC Sustainability Report

...Executed through A Well Diversified ESG Business Portfolio

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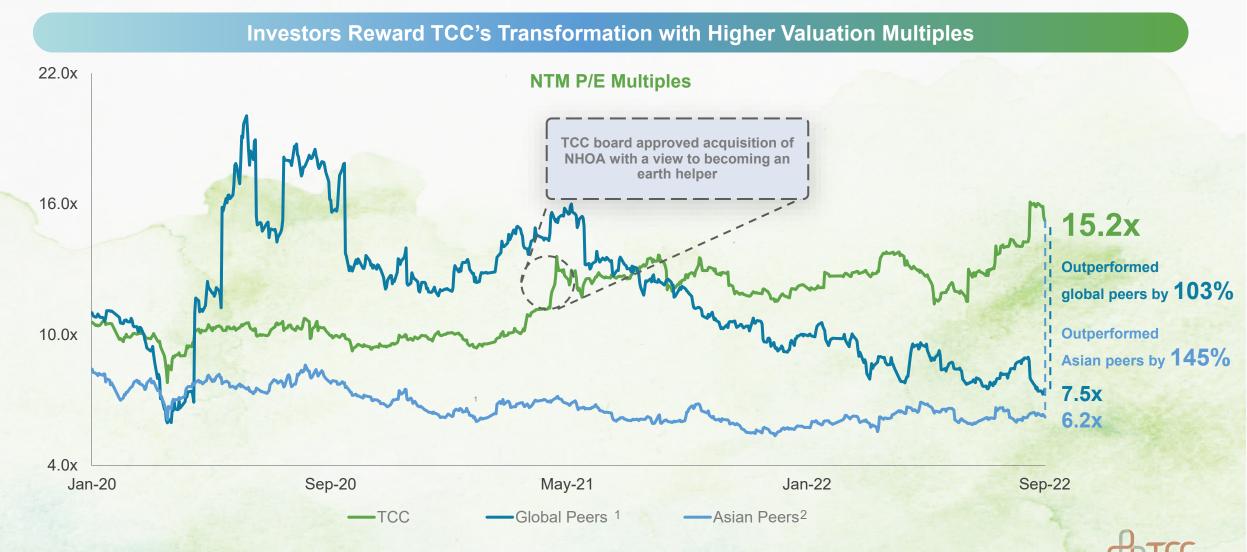
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TCC's ESG Initiatives are Well-recognized by the 2 Capital Markets

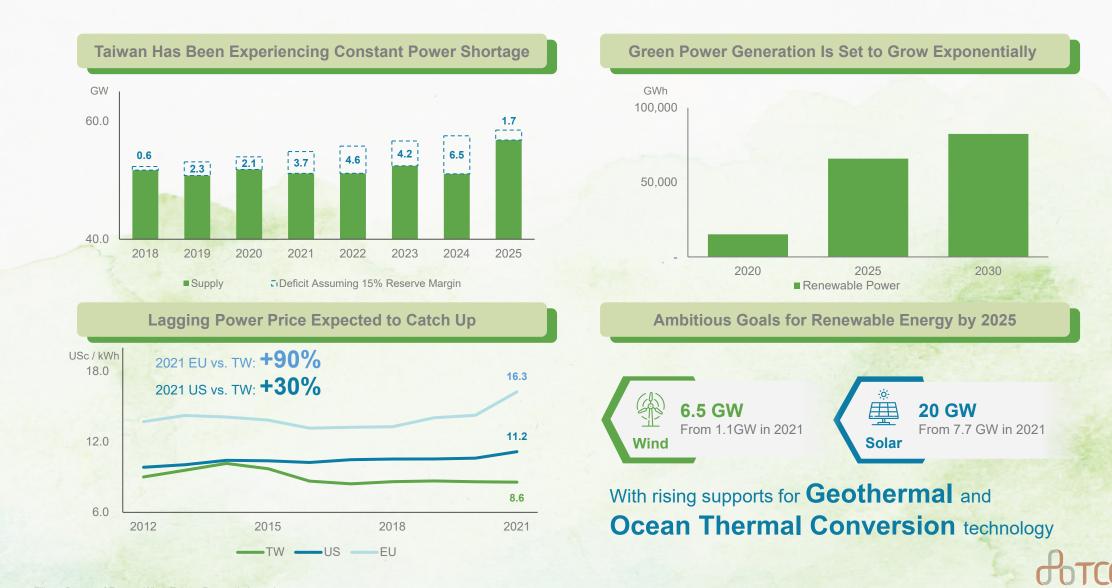
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Source: Bloomberg, IBES, Company Filings ¹ Includes Cemex, Heidelbergcement, Holcim; ² Includes Anhui Conch, Asia Cement, China National Building Material

Well-positioned to Capture Huge Growth Potential in Taiwan Renewable Energy Market

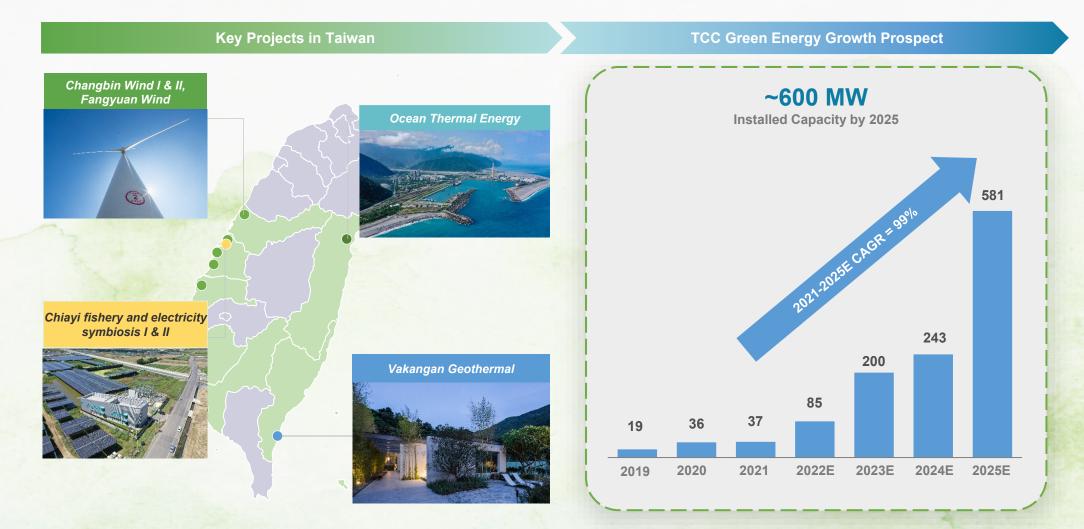
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Scalable Renewables Power Generation Initiatives to Further Support Decarbonization Commitment

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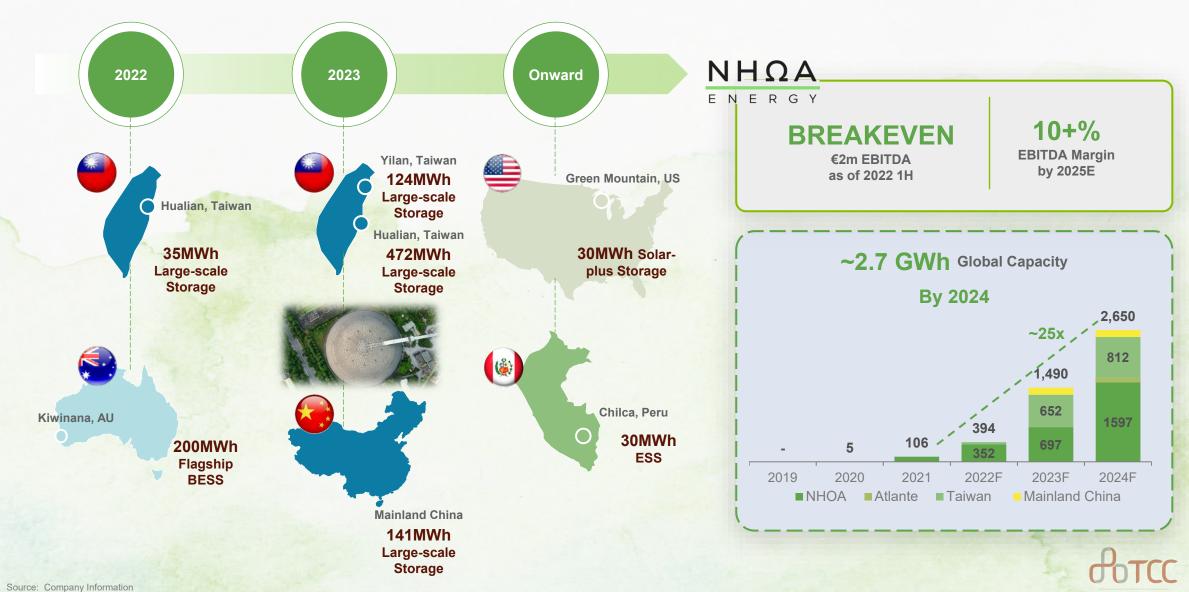


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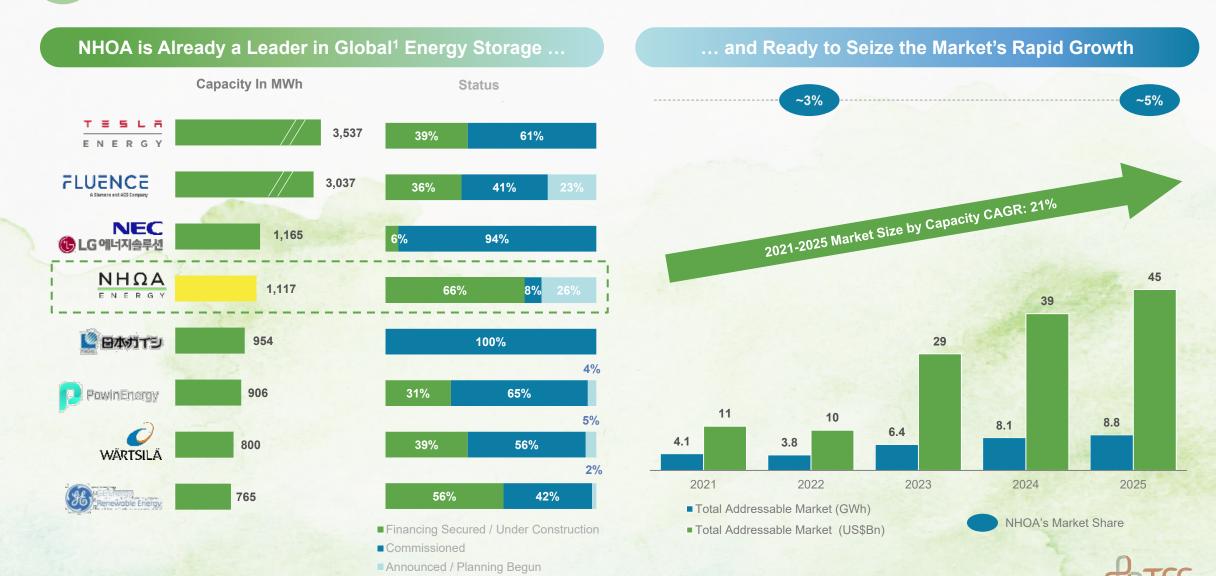
Urgent Requirement of Energy Storage Solutions Due to Increasing Renewables Adoption and Surging EV Charging Demand

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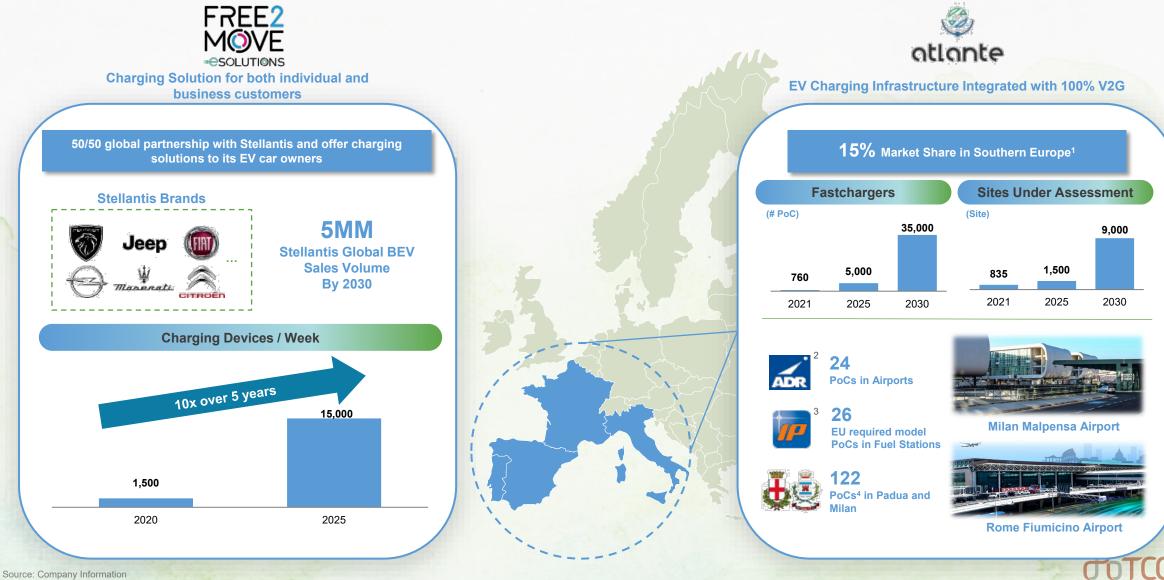
4 NHOA's Strengthening Industry Position

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Source: Company Information, Bloomberg New Energy Finance ¹ Excluding China, Japan, South Korea

4 E-Mobility & Charging as Extension of Energy Storage



¹ Includes France, Italy, Spain, and Portugal; ² Aeroporti di Roma, an Italian operator of airports; ³ Italiana Petroli, an Italian fuel distributor; ⁴ Points of charge

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Power Battery Leads the Next-stage Transformation

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Manufacturing Plant 1 & Plant 2 Tainan, TW

> Manufacturing Plant 3 Kaoshiung, TW

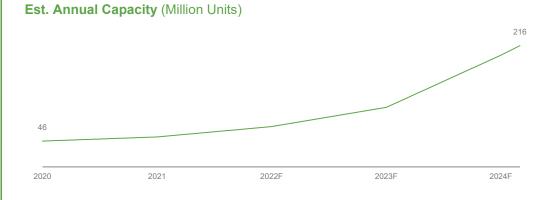


Construction due to be completed by December 2022



Adds 1.8GWh in capacity

Battery Business Achieved Profit of ~US\$10MM in 2022H1



Customer Portfolio

Includes well-known **international wireless vacuum cleaner brand**, multiple **electric supercars** with unit prices over 1 million USD, more than 5 newly created and **revolutionary heavy machinery brands, NASA** with high usage in satellites, 5 NYSE listed or **private eVTOL/e-aircraft** companies



3. Corporate Governance



Global Management Team



Visionary Leadership Team with Global Backgrounds Driving Transformation Business of TCC

Strong Track Record in Efficient Operations and Capital Deployment



Corporate Governance Transformation



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Board Seats are Independent Directors

Increase from 21% to 33%¹

ESG-related Courses

79 Hours

Increase from 25% to 60%¹



Risk Management Courses **36 Hours**





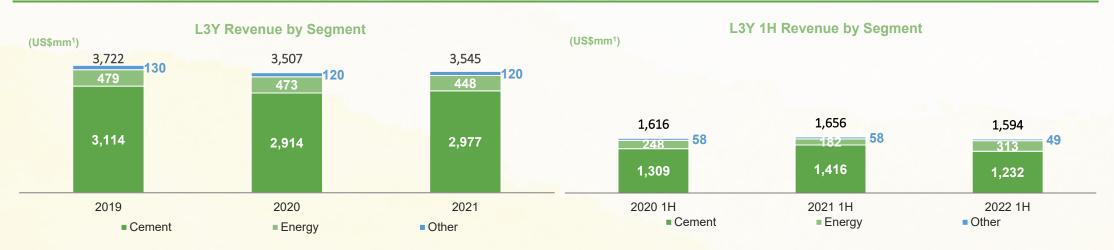
4. Financial Overview



Cement Business Facing Industry Headwinds

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Cement Business Facing Industry Headwinds Leading to Stagnant Growth ...



... and Compressed Margins but Likely to Reverse In the Future



Despite the negative impact on cement and energy businesses due to rising coal price, we expect **margin to recover** due to:

- increasing adoption of **cost-efficient alternative fuels**
- expansion of **higher-margin ESG business** to factor into profitability



Source: Company Filings ¹ Exchange rate: USD / TWD = 30.1990; ² EBITDA = Income from operations + Depreciation (excluding non-operating depreciation) + Amortization

Long-standing Superior Operational Liquidity and Efficiency

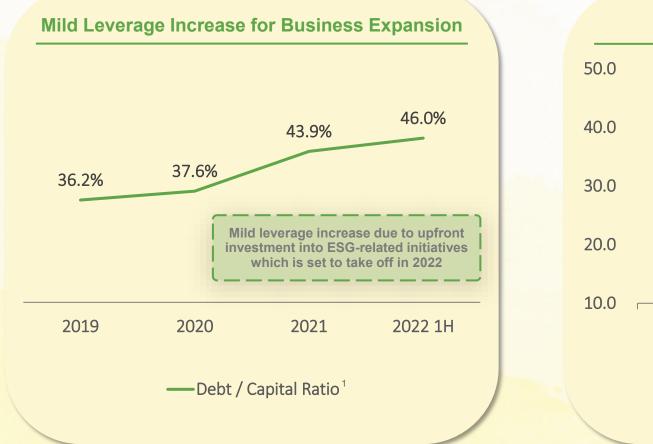
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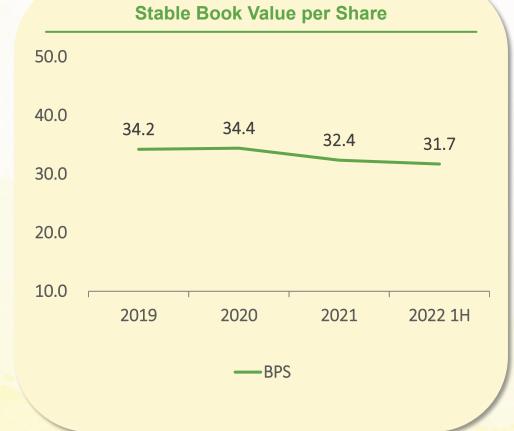




Robust Capital Structure

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Silver Lining



Appendix A



Income Statement

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Income Statement								
For the Fiscal Year Ended Unit	2022 1H US\$MM	As % of Revenue	2020 US\$MM	As % of Revenue	2020 US\$MM	As % of Revenue	2019 US\$MM	As % of Revenue
Operating Revenue	1,594		3,545		3,507		4,066	
Operating Costs	1,525		2,662		2,269		2,877	
Gross Profit	70		882		1,239		1,189	
Operating Expenses	-		—				-	
Marketing	13		23		24		34	
General and Administrative	108		192		167		156	
Research and Development	9		12		0		1	
Total Operating Expenses	129		227		191		191	
Income from Operations	(60)		655		1,048		999	
Non-Operating Income and Expenses	-		-		-		-	
Income Before Tax from Continuing Operations	24		864		1,186		1,081	
Income Tax Expense	27		196		243		238	
Net Income from Continuing Operations	(3)		667		943		843	
Profit (Loss) from Discountinued Operations			35		(16)			
Net Income	(3)		702		927		843	
						3412		
Adjusted Operating Revenue ¹	1,594	100.0%	3,545	100.0%	3,507	100.0%		3,722
YoY Growth			0.0%		(0.1)%			(1.5)%
Cement	1,232	77.3%	2,977	84.0%	2,914	83.1%		3,114
YoY Growth	(13.0)%		0.0%		(0.1)%			(1.6)%
Energy	313	19.6%	448	12.7%	473	13.5%		479
YoY Growth	72.2%		(0.1)%		(0.0)%			13.1%
Others	49	3.1%	120	3.4%	120	3.4%		130
YoY Growth	(15.4)%		(0.0)%		(0.1)%			(1.8)%

Balance Sheet

Balance Sheet

As of Unit	30-Jun-2022 US\$MM	31-Dec-2021 US\$MM	31-Dec-2020 US\$MM	31-Dec-2019 US\$MM
Current Assets				
Cash and Cash Equivalents	3,328	3,017	1,703	1,774
Financial Assets	827	737	719	412
Notes Receivable	615	849	977	1,035
Accounts Receivable	345	326	315	293
Inventories	607	444	263	269
Prepayments	168	130	71	59
Other Current Assets	33	26	23	17
Total Current Assets	6,034	5,608	4,116	3,912
Non-Current Assets				
Financial Assets	1,018	1,434	1,602	1,229
The Equity Method	1,578	1,549	1,660	1,577
Property, Plant, and Equipment	3,555	3,252	3,050	2,976
Right-of-Use Assets	506	496	445	422
Investment Properties	179	180	181	209
Intangible Assets	919	916	648	651
Prepayments for PP&E	268	257	180	99
Receivables	768	806	893	969
Net Defined Benefit Asset	61	61	52	47
Other Non-current Assets	90	67	71	77
Total Non-Current Assets	8,943	9,018	8,782	8,256
Total Assets	14,976	14,626	12,898	12,169

Balance Sheet

As of Unit	30-Jun-2022 US\$MM	31-Dec-2021 US\$MM	31-Dec-2020 US\$MM	31-Dec-2019 US\$MM
Current Liabilities		1	A	
Short-Term Borrowings	1,738	1,828	1,355	1,203
Financial Liabilities at FVTPL	17	7	-	-
Contract Liabilities	45	48	173	167
Notes and Accounts Payable	441	332	203	246
Other Payables	291	339	353	364
Long-Term Loans - Current Portion	29	235	159	54
Other Current Liabilities	226	6	4	1
Non-Current Liabilities				
Bonds Payable	2,962	2,700	1,785	1,182
Long-Term Loans	827	553	828	1,012
Lease Liabilities	114	108	66	69
Deferred Income Tax Liabilities	405	395	389	384
Long-Term Bills Payable	497	420	165	391
Other Non-Current Liabilities	42	37	29	22
Total Liabilities	7,726	7,154	5,652	5,266
Share Capital	2,095	2,095	1,967	1,876
Capital Surplus	1,881	1,879	1,627	1,590
Retained Earnings	2,078	2,448	2,457	2,173
Treasury Shares	(7)	(13)	(17)	(12)
Shareholders of the Corporation	6,637	6,771	6,758	6,414
Non-Controlling Interest	614	701	489	489
Other Equity	590	362	700	786
Total Equity	7,251	7,472	7,246	6,903
Total Liabilities and Equity	14,976	14,626	12,898	12,169



Cash Flow Statement

Cash Flow Statement

Unit	2022 1H US\$MM	2021 US\$MM	2020 US\$MM	2019 US\$MM
Cash Flow from Operating Activities				
Income Before Income Tax From Continuing Operations	24	864	1,186	1,081
Profit (Loss) Before Income Tax from Discontinued Operations	_	35	(15)	_
Income Before Income Tax	24	898	1,171	1,081
Adjustments for:	_	_		_
Depreciation Expense	118	219	227	229
Amortization Expense	18	15	14	14
Net Gain on FV Changes of Fin. Assets and Liabilities at FVTPL	11	(1)	(1)	(6)
Finance Costs	39	57	66	73
Interest Income	(26)	(51)	(45)	(27)
Dividend Income	(54)	(58)	(52)	(48)
Share-based Compensation	2	1	Ó	0
Share of Profit of Associates and Joint Ventures	(49)	(137)	(106)	(83)
Loss (Gain) on Disposal of PP&E, Net	1	(11)	3	5
Loss on Disposal of Investment Properties		0	-	-
Loss on Disposal of Intangible Assets	_	0	-	_
Gain on Disposal of Investments, Net	0	(25)	-	(6)
Non-Financial Asset Impairment Loss	-	Ó	3	26
Reversal of Write-Downs of Inventories	(1)	(0)	(2)	(1)
Unrealized Loss (Gain) on Foreign Exchange, Net	(1)	2	(4)	(5)
Gain on Lease Modification	-	-	0	-
Changes in Operating Assets and Liabilities:		-	-	-
Financial Assets Mandatorily Classified as at FVTPL	-	-	6	3
Notes Receivables	257	122	76	(86)
Accounts Receivable	(18)	(61)	(22)	(21)
Notes and Accounts Receivable from Related Parties	2	(8)	1	(1)
Other Receivables	(20)	(28)	(2)	(1)
Other Receivables from Related Parties	2	(0)	13	(1)
Inventories	(156)	(165)	11	40
Prepayments	(36)	(57)	(14)	33
Other Current Assets	(6)	(1)	(6)	2
Contract Liabilities	(4)	(13)	5	(2)
Notes and Accoutns Payable	103	125	(43)	(6)
Other Payables	(29)	(6)	9	(7)
Other Payables to Related Parties	(20)	61	(13)	(16)
Other Current Liabilities	3	(10)	3	(3)
Net Defined Benefit Liabilities	(2)	9	(1)	(5)
Cash Generated from Operations	158	877	1,293	1,180
Income Tax Paid	(91)	(249)	(257)	(213)
Net Cash Generated from Operating Activities	66	628	1,036	967

Cash Flow Statement

Unit	2022 1H US\$MM	2021 US\$MM	2020 US\$MM	2019 US\$MM
Cash Flow from Investing Activities				
Purchase of Financial Assets at FVTOCI	(19)	(50)	(1)	_
Disposal of Financial Assets at FVTOCI	_	72	35	0
Purchase of Financial Assets at Amortized Cost	-	-	(868)	(92)
Disposal of Financial Assets at Amoritzed Cost	278	32	_	_
Acq. of LT Equity Investments Accounted for Using the Equity				
Method	_	(25)	(8)	(43)
Disposal of Investments Accounted for Using the Equity Method	(1)	_	_	1
Acquisition of Subsidiaries	_	(54)	_	_
Disposal of Subsidiary	-	(4)	_	-
Payments for Property, Plant and Equipment	(386)	(548)	(317)	(272)
Proceeds from Disposal of Property, Plant and Equipment	2	6	2	17
Increase in Other Receivables from Related Parties	_	_		(11)
Payments for Intangible Assets	(13)	(72)	(2)	(4)
Payments for Right-of-Use Assets	()	(22)	(36)	(137)
Disposal of Right-of-Use Assets	_	()	()	0
Payments for Investment Properties	(0)	(0)	-	_
Decrease in Finance Lease Receivables	38	59	75	56
Decrease (Increase) in Other Non-Current Assets	6	(2)	6	(8)
Interest Received	19	65	39	28
Dividends Received	55	104	82	82
Net Cash Used in Investing Activities	(22)	(440)	(992)	(380)
Cash Flow From Financing Activities	(==)	(440)	(002)	(000)
Increase in Short-Term Loans	1	564	150	145
Increase in Short-Term Bills Payable	(102)	17	12	(51)
Issuance of Bonds	257	1,277	661	416
Increase in Long-Term Loans	790	296	144	479
Repayments of Long-Term Loans	(728)	(440)	(216)	(290)
Increase in Long-Term Bills Payable	874	1,149	1,186	2,705
Decrease in Long-Term Bills Payable	(795)	(894)	(1,412)	(3,058)
Repayment of the Principal Portion of Lease Liabilities	(135)	(13)	(1,412)	(14)
Increase (Decrease) in Other Non-Current Liabilities	(0)	(13)	2	(14)
Cash Dividends Paid	(35)	(762)	(546)	(632)
Issuance of Subsidiary's Ordinary Shares of Cash	(55)	46	(540)	(032)
Treasury Shares Transferred to Employees	5	40	1	0
Payment for Buyback of Treasury Shares	5	5	(6)	(12)
Acquisition of Subsidiaries	(0)			(12)
	()	(32)	(25)	
Interest Paid Payments for Buy-Back of Ordinary Shares	(40)	(68)	(63)	(70)
	_	(0)		-
Changes in Non-Controlling Interests	223	4 4 2 0	(425)	0
Net Cash Generated from (Used in) Financing Activities	223	1,139	(125)	(385)
Effects of Exchange Rate Changes on Cash and Cash	10	(12)	10	(24)
Equivalents	43	(13)	10	(34)
Net Increase (Decrease) in Cash and Cash Equivalents	310	1,314	(71)	168
	3,017	1,703	1,774	1,606
[Cahs] and Cash Equivalents at the Beginning of the Year Cash and Cash Equivalents at the End of the Year	3,328	3,017	1,703	1,774

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