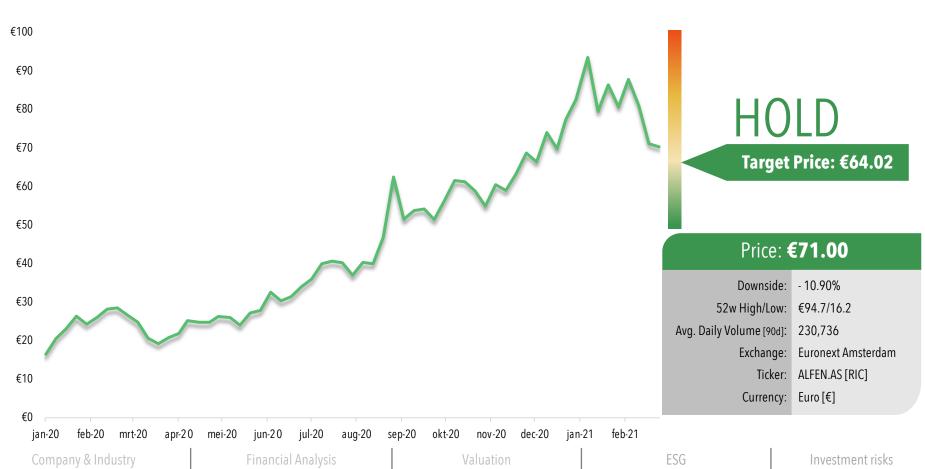


Our recommendation (1)





Our recommendation (2)





Business model

Unique cross-selling proposition.

Strong growth

Profitable growth and resilience to business fluctuations.

Innovation skills

First-mover advantage and established relations.

The Beating Heart of the Grid



Power generation

Transmission grid































A Unique Cross-Selling Proposition



73%

Smart grids

Alfen's first business and cash cow. Supply of devices for grid automation and software.

18%

EV Charging

Supply of smart and connected EV charge point, especially with AC technology.

9%

Energy storage

Alfen's latest business and current question mark. Supply of modular energy storage systems.

VATTENFALL —

EV charging contract + 12 MW enery storage + 5.7 MW solar PV farm

fluvius.

Public Ev charging + energy storage project + grid automation

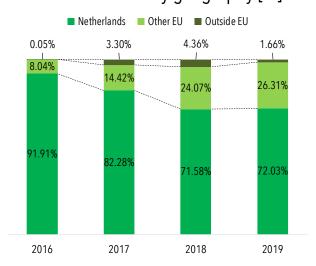
A Key Player in Europe





10 countries with employed staff

Alfen's revenues by geography [%]





Alfen's geographical presence

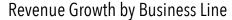


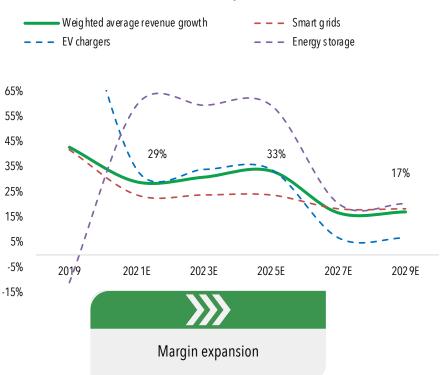
Source: team estimates, company website

 Company & Industry
 Financial Analysis
 Valuation
 ESG
 Investment risks

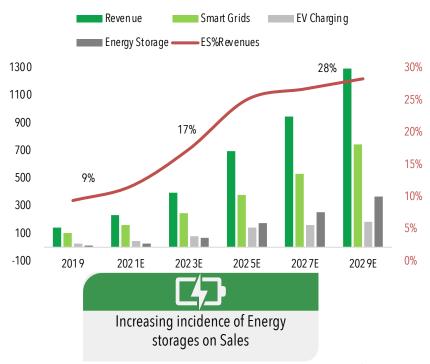
Outstanding Revenue Growth







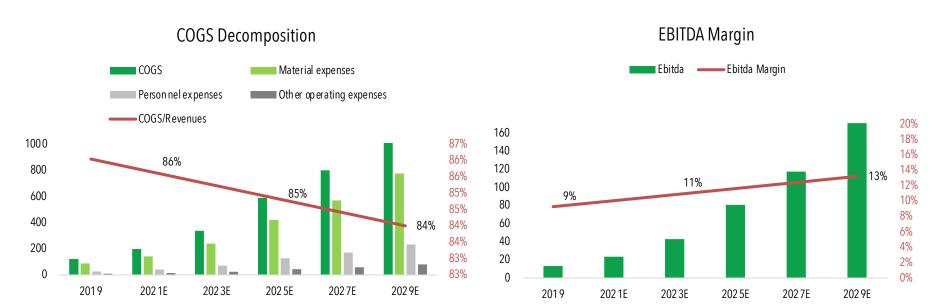
Revenue Decomposition



Source: team estimates

Margin Expansion Leading to Higher Operational Efficiency





COGS & SG&A

- Economies of scale
- Reduction in cost of Raw materials

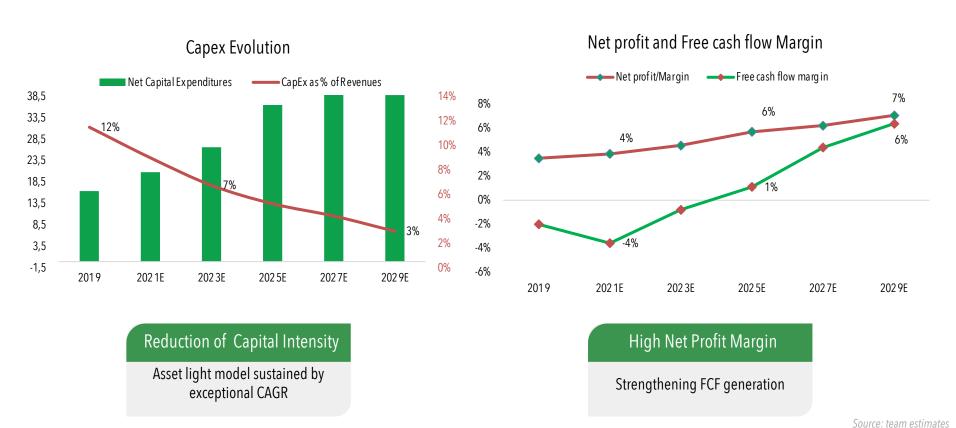
EBITDA

- Convergence in profitability
- Not high enough to meet IPO goal.

Source: team estimates

Capital Expenditure Normalization





Target Price





Growth drivers



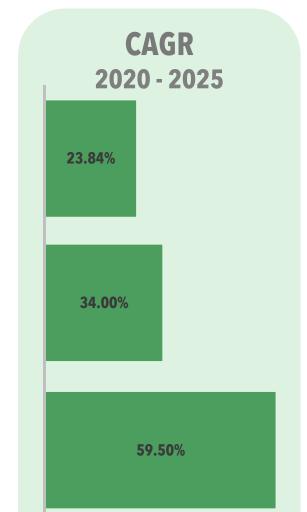
Sustained Capital Expenditures of Distributed Service Operators (DSO)

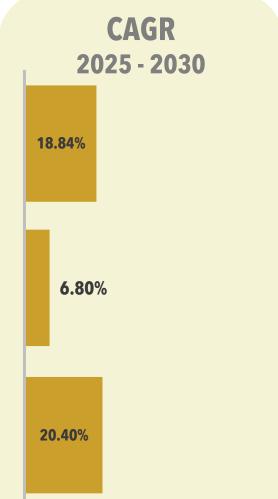


Favourable Government Incentives for EV's until '25



Rise in Renewable Energy Sources

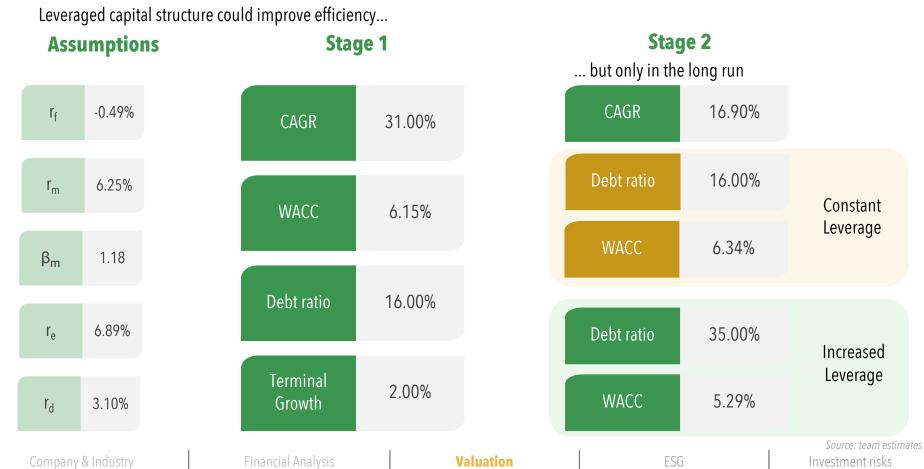




am estimates

Three-stage DCF Valuation Model



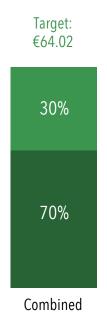


Target price decomposition









Source: team estimates

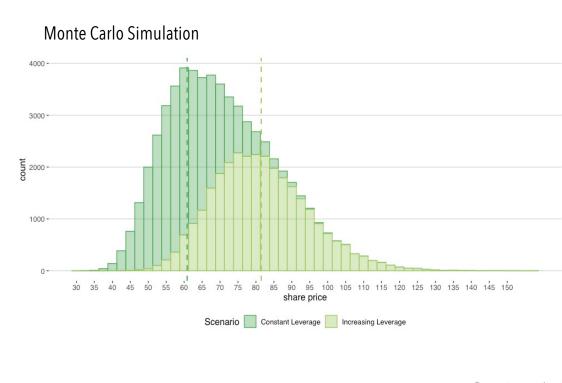
Sensitivity Analysis



食	Smart Grids	Stage 1	Stage 2
	Mean	23.84%	18.34%
	SD	2.00%	4.00%

EV Charging	Stage 1	Stage 2
Mean	59.50%	20.40%
SD	2.00%	4.00%

ES Solutions	s Stage 1	Stage 2
Mean	34.00%	6.80%
SD	4.00%	8.00%



Source: team estimates

Managed by a Motivated Team with Years of Experience





Marco Roeleveld



Jeroen van Rossen



Richard Jongsma* CCO (until mid-2021)

+ Independent Supervisory Board

Leader in ESG Performance



Environmental

- + Energy sources
- + Waste streams



Social

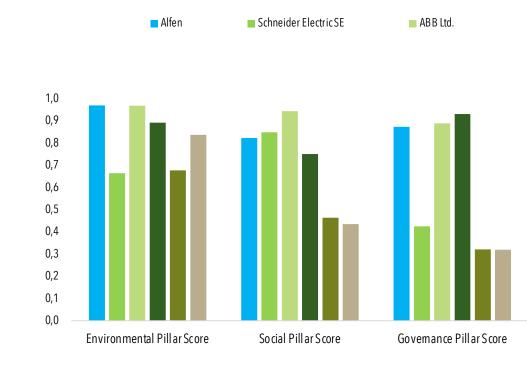
- + Educational efforts for workforce
- Community



Governance

- + Independence & diversity issues
- Tax transparency

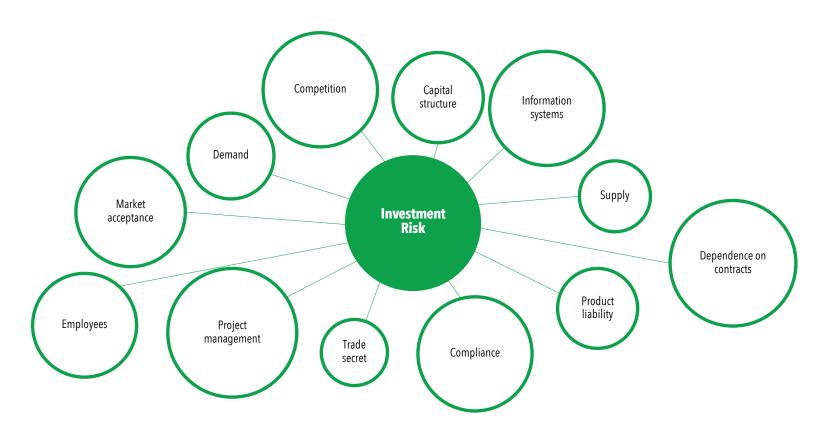
ESG Score Comparison



Source: team estimates, Refinitiv

Investment Risk (1/3)





Investment Risk (2/3)





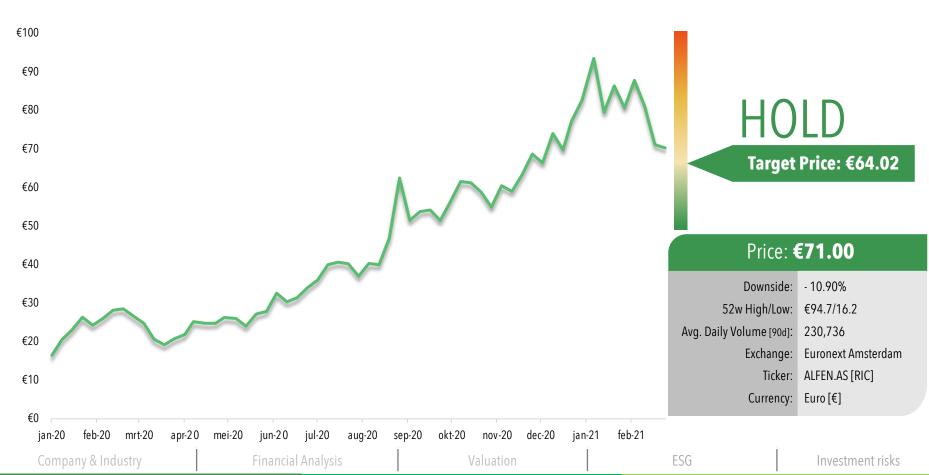
Investment Risk (3/3)





Final remarks





THANK YOU FOR YOUR ATTENTION!



Federico Ciaraffoni



Binta Steinröx



Alessio El Ghorayeb



Gaspard Tafforeau



Symyion Promt

Appendix

Company & Industry

- <u>Timeline</u>
- Supply chain
- Porter: Smart grids
- Porter: EV charger
- Porter: ES
- Cross-selling
- SWOT

Financial Analysis

- Profitability analysis
- <u>Capital structure</u>
- <u>Liquidity analysis</u>
- Cost of lithium

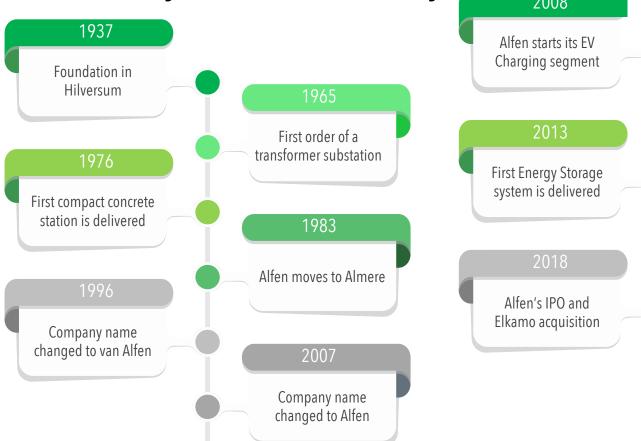
Valuation

- Comparables: classic
- Comparables: SOTP
- <u>Comparables:</u> <u>summary</u>

ESG

Shadow rating

Timeline of key events in Alfen's history





2008

Takeover of EXENDIS and start of Energy Storage segment

2014

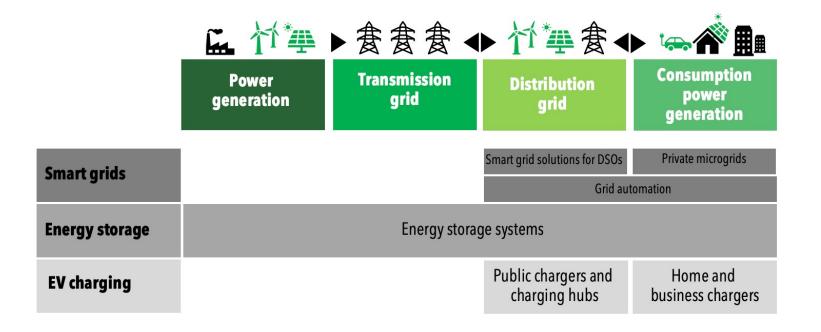
Alfen expands to UK, France and Germany

2020

~ €51 million capital increase completed

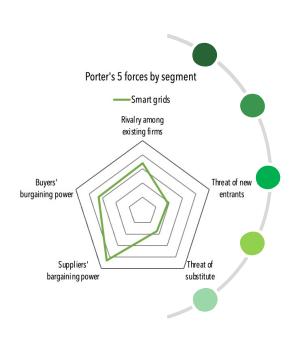
The decentralization of the energy industry





Porter's 5 forces: smart grids





Rivalry among existing firms: medium/high

Threat of new entrants: medium/low

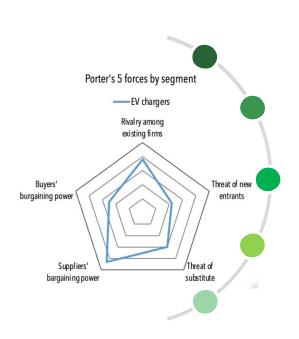
Threat of substitute: medium/low

Bargaining power of suppliers : high

Bargaining power of buyers: medium/high

Porter's 5 forces: EV charging equipment





Rivalry among existing firms : medium/high

Threat of new entrants: medium

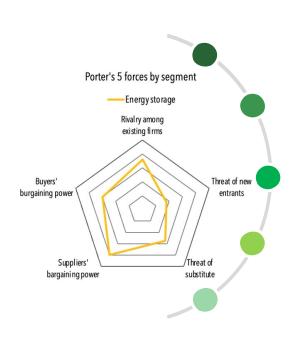
Threat of substitute: medium

Bargaining power of suppliers : high

Bargaining power of buyers: medium

Porter's 5 forces: energy storage





Rivalry among existing firms: medium/high

Threat of new entrants: medium/low

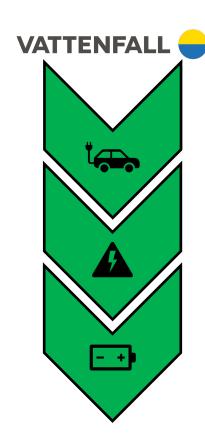
Threat of substitute: medium

Bargaining power of suppliers : high

Bargaining power of buyers: medium

Cross-selling examples





In 2017 EV Charging contracts

In 2018 5.7 MW of solar PV farm

In 2019 12 MW of energy storage

In 2017 public EV Charging points

In 2018 an energy storage project

In 2019 a grid automation project



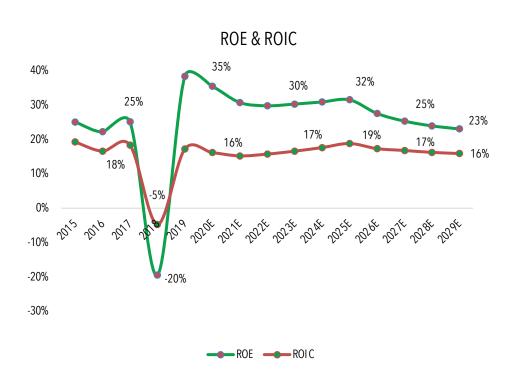
SWOT analysis

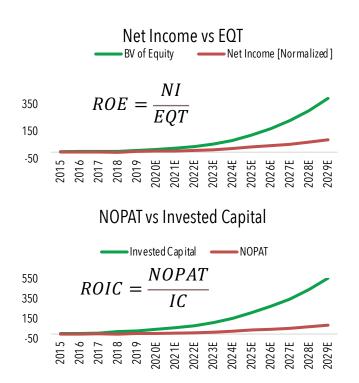


Strengths	
Compatibility & Independence	Alfen's clients benefits from their ability to provide unique integrated solutions independent of component affiliation.
 Cross-selling 	Alfen has positioned itself in a valuable market position for maximising cross-sales.
• Economies of scale	Alfen is now able to leverage its capital base in supporting its increasing demand against lower marginal costs.
• First-mover advantage	Alfen has built strong partnerships with various grid operators in its geographic markets, including Enexis, Alliander and Stedin.
• Environmental equity	The increased political involvement in this transition allows for a substantial number of subsidies or tax-breaks to Alfen.
 Shareholding structure 	Alfen benefits from the recent IPO in terms of shareholding structure.
Market development	Alfen rides market development by manufacturing and providing equipment that aids the sustainable energy transition.
Weaknesses	
 International position 	Although its sales teams are present in many European countries, it only holds the market leading position within the Netherlands.
 Compatibility 	The company's smart-grid solutions are "universal".
Opportunities	
 Acquisition of other actors 	Even if Alfen seems to be focused on an organic growth strategy, the firm has already been active regarding M&A operations.
Threats	
• Lack of exclusivity	This point allows large clients to develop solutions in-house or switch to lower-cost alternatives once the market matures.
Market saturation	The one-off nature of investment in smart grids poses a threat of saturation within a given market.

Profitability

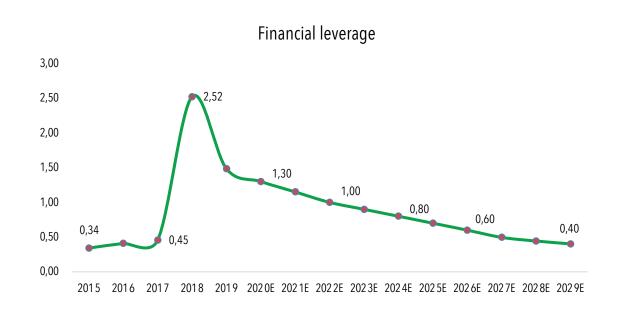






Capital Structure





Decreasing Debt/Equity

Reverts to pre Elkamo's acquisition level and Industry average

Liquidity Analysis





Negative Cash Ratio till 2022

- Expansion process
- Debt repayment

From 2022 strong CF from operations

Compensates negative CF from Investing activities

Cost of Lithium



The fall is not over yet... Possible further decrease by another 50-60% by 2030

Lithium-ion battery pack costs worldwide



Economies of Scale

Growth in the scale of global manufacturing capacity

Technology Improvement

Less material needs and standardisation

Further cost Decrease

Across manufacturing value chain

Shadow Rating



	Envir	onmental Pillar S	core		Social Pill	ar Scores	Governance Pillar Scores				
	Emission	Innovation	Resource Use	Human Rights	Product Responsibility	Workforce	Community	Management	Shareholders	CSR Strategy	
PILLAR WEIGHTS	0.33	0.28	0.38	0.31	0.12	0.26	0.31	0.67	0.20	0.13	
Electronic Equipment & Parts Industry	0.13	0.11	0.15	0.10	0.04	0.08	0.10	0.20	0.06	0.04	
Alfen	0.98	0.99	0.97	0.88	0.95	0.90	0.65	0.85	0.90	0.95	
PILLAR SCORE		0.97			0.8	32		0.87			

	Alfen	Schneider Electric SE	ABB Ltd.	Siemens AG	Contemporary Amperex Technology Co Ltd	GS Yuasa Corp
ESG Combined Score	0.9068	0.6643	0.9361	0.4641	0.4961	0.5394
ESG Score	0.9068	0.6643	0.9361	0.8448	0.4961	0.5394
Environmental Pillar Score	0.9692	0.6634	0.9677	0.8909	0.6767	0.8371
Social Pillar Score	0.8223	0.8475	0.9437	0.7505	0.4642	0.4349
Governance Pillar Score	0.8730	0.4252	0.8881	0.9306	0.3210	0.3192
ESG Controversies Score	100.00	100.00	100.00	8.33	100.00	100.00
Rating	A	В	A+	C+	C+	B-

Score range	Grade	Description
0.000 - 0.083	D-	D indicates poor ESG performance
0.083 - 0.166	D	and insufficient transparency in
0.166 - 0.250	D+	reporting
0.250 - 0.333	C-	C indicates satisfactory ESG
0.333 - 0.416	C	performance and moderate
0.416 - 0.500	C+	transparency in reporting
0.500 - 0.583	B-	B indicates good ESG performance
0.583 - 0.666	В	and above average transparency in
0.666 - 0.750	B+	reporting
0.750 - 0.833	A-	A indicates excellent ESG
0.833 - 0.916	Α	performance and high transparency
0.916 - 1.000	A+	in reporting

Source: team estimates, Refinitiv

Relative valuation - Classic approach



Company	Curronau	Market data			Financial data 2019					Multiples			
Company name	Currency	Stock price(1)	EqV(1)	Net debt	EV	Sales	EBITDA	EBIT	Net income	EV/Sale	EV/EBITDA	EV/EBIT	P/E
Jinlei Technology	YENm	37.9	9,622	-241	9,381	1,115	277	226	205.20	8.42x	33.92x	41.57x	46.89x
Allis Electric	T\$m	25.8	5,741	180	5,921	4,819	323	277	296	1.23x	18.32x	21.37x	19.42x
Koncar-Distributivni	HRKm	1,420.0	723	-36	688	1,069	74	52	47.80	0.64x	9.31x	13.13x	15.14x
Harju Elekter	€m	5.5	97	14	112	143	7	3	2	0.78x	16.33x	33.70x	39.52x
Iljin Power	SKWbn	5,500.0	82	-32	51	183	17	14	11.77	0.28x	3.04x	3.54x	6.99x
Average multiple										2.27x	16.18x	22.66x	25.59x
Alfen's aggregate										143,16	14,460	9,260	5,625
Implied valuation										324,78	234,017	209,837	143,954

From EV mutiples (€k)		From EV/EBIT
Entreprise Value	256,214	209,837
Net debt (2019)	19,254	19,254
Equity value	236,960	190,583
Share price	11.3	9.1
From EqV mutiples (€k)		
Equity value	143,954	
Share price	6.9	

Relative valuation – Sum-of-the-parts approach



Company		R	evenue breakdov	vn	
Company	Smart grids	Storage	EV charging	Other	Total
Leclanché	48.79%	37.76%	0.00%	13.46%	100.00%
Revenue	7,803	6,039	0	2,152	15,994
EBITDA	-25,385	-5,615	0	-8,086	-39,086
EBIT	-27,823	-5,935	0	-8,293	-42,051
Net income	-40,667	-31,474	0	-11,216	-83,357
Schneider Electrics	76.76%	0.00%	0.00%	23.24%	100.00%
Revenue	20,847	0	0	6,311	27,158
EBITDA	3,981	0	0	1,205	5,186
EBIT	3,079	0	0	932	4,011
Net income	1,855	0	0	0	2,416
Siemens	0.00%	0.00%	20.34%	79.66%	100.00%
Revenue	0	0	17,663	69,186	86,849
EBITDA	0	0	2,116	8,290	10,406
EBIT	0	0	1,406	5,506	6,912
Net income	0	0	1,052	4,120	5,172
Silicon Laboratories	0.00%	0.00%	21.87%	78.13%	100.00%
Revenue	0	0	183	654	838
EBITDA	0	0	25	89	114
EBIT	0	0	13	45	58
Net income	0	0	4	15	19
Alfen	72.35%	9.39%	18.26%	0.00%	100.00%
Revenue	103,584	13,449	26,136	0.00%	143,169
EBITDA	10,462	1,358	2,640	0	14,460
EBIT	6,700	870	1,690	0	9,260
	2.50 3.70				* 10000
Net income	4,070	528	1,027	0	5,625

From EV mutiples (€k)	F.	rom EV/EBIT
Entreprise Value	339,151	225,928.1
Net debt (2019)	19,254	19,254.0
Implied EqV	319,897	206,674
Share price	15.2	9.8
From P/E mutiples (€k)		
Implied EqV	224,579	
Share price	10.7	



Company name	Currency		Mark	et data			Financial	data 2019			Mult	iples	
Company name	Currency	Stock price(1)	EqV(1)	Net debt	EV	Sales	EBITDA	EBIT	Net income	EV/Sales	EV/EBITDA	EV/EBIT	P/E
Leclanché	CHFk	1.1	142,107	20,664	162,771	7,803	-25,385	-27,823	-40,667	20.86x	N/A	N/A	N/A
Schneider Electrics	€m	127.2	55,652	3,732	59,384	20,847	3,981	3,079	1,855	2.85x	14.92x	19.29x	30.01x
Gomero Group AB	KRk	9.7	43,360	-5,226	38,134	33,914	-41	-753	-616	1.12x	N/A	N/A	N/A
Landis+Gyr Group AG	CHFm	69.5	2,177	102	2,279	1,676	229	144	112	1.36x	9.95x	15.85x	19.40x
Gersan Elektrik Ticaret ve Sanayi AS	TLm	6.2	493	91	583	218	-51	-55	-36	2.68x	N/A	N/A	N/A
Zpue SA	PLNm	188.0	252	93	345	688	83	59	47	0.50x	4.15x	5.88x	5.36x
Dalekovod dd	HRKm	6.2	151	377	528	1,227	26	-10	3	0.43x	20.24x	N/A	45.84x
Harju Elekter AS	€m	5.5	97	14	112	143	7	3	2	0.78x	16.33x	33.70x	39.52x
APS Energia SA	PLNm	2.1	59	16	75	135	16	13	11	0.56x	4.76x	5.90x	5.54x
Average multiple										3.46x	11.73x	16.12x	24.28x
Alfen's aggregate										103,584	10,462	6,700	4,070
Implied valuation										358,430	122,669	108,025	98,804

Company name	Currency		Market data					Financial	data 2019		Multiples			
		Stock price(1)	EqV(1)	Net debt	EV		Sales	EBITDA	EBIT	Net income	EV/Sales	EV/EBITDA	EV/EBIT	P/E
Contemporary Amperex Technology	YENm	419.0	942,272	-5,029	937,243		45,516	9,485	5,076	4,560	20.59x	98.81x	184.64x	206.64x
Leclanché	CHFk	1.1	109,981	15,993	125,974		6,039	-5,615	-5,935	-31,474	20.86x	N/A	N/A	N/A
VARTA AG	€m	128.0	6,130	-212.8	5,917		363	85	64	50	16.31x	69.60x	92.23x	121.64x
GS Yuasa Corporation	YENbn	3,170.0	268	46	314		396	41	22	14	0.79x	7.71x	14.48x	19.56x
Seri Industrial SpA	€m	4.4	199	73.9	273		143	12	0	2	1.90x	22.41x	N/A	125.72x
Monbat AD	LVm	4.0	156	174.1	330		330.1	36	17	10	1.00x	9.29x	19.34x	15.29x
LG Chem Ltd	SKWbn	989,000.0	74	6,493	6,567		28,625	2,752	896	313	0.23x	2.39x	7.33x	0.24x
Samsung SDI Co. Ltd	SKWbn	710,000.0	52	2,313	2,365		10,097	1,318	462	357	0.23x	1.79x	5.12x	0.14x
Average multiple											7.74x	30.29x	53.86x	69.89x
Alfen's aggregate											13,449	1,358	870	528
Implied valuation											104,105	41,141	46,848	36,930

Company name	Currency	Company of the Company	Market data				Financial data 2019					Multiples			
	Currency	Stock price(1)	EqV(1)	Net debt	EV		Sales	EBITDA	EBIT	Net income		EV/Sales	EV/EBITDA	EV/EBIT	P/E
Chroma ATE	NTm	172.5	72,428	1,534	73,962		13,910	2,506	2,059	1,854		5.32x	29.51x	35.92x	39.07x
ABB	CHFm	26.8	57,976	5,782	63,758		27,794	3,481	2,526	1,037		2.29x	18.32x	25.24x	55.91x
Siemens	€m	124.6	21,436	6,208	27,644		17,663	2,116	1,406	1,052		1.57x	13.06x	19.67x	20.38x
GARO AB	KRm	670.0	6720	46	6,766		1,008	137	114	86		6.71x	49.56x	59.24x	78.41x
Silicon Laboratories	\$m	136.5	1,297	-74	1,223		183	25	13	4		6.67x	49.08x	97.22x	307.25x
Schaffner Holdings	CHFm	204.0	130	16	146		197	15	10	7		0.74x	10.05x	14.91x	18.11x
Paragon GmbH & Co. KGaA	€m	9.6	44.27	140	184		192	-67	-89	-83		0.96x	N/A	N/A	N/A
Average multiple												3.47x	28.26x	42.03x	86.52x
Alfen's aggregate												26,136	2,640	1,690	1,027
Implied valuation												90,572	74,609	71,055	88,844

(1) Stock price as of 10/01/2021