

TubeSolar AG

Germany / Renewable Energy Düsseldorf Bloomberg: 9TS ISIN: DE000A2PXQD4

Capital increase

RATING PRICE TARGET BUY € 9.40

Return Potential 31.5% Risk Rating High

EQUITY FOR HIGHLY AUTOMATED PRODUCTION

TubeSolar AG has decided to carry out a capital increase to partially finance the construction of the highly automated production of its innovative lattice-like TubeSolar tube modules. The modules are permeable to sunlight and rain, and particularly suitable for use in agro-photovoltaics (APV). APV is a rapidly growing PV market segment and is characterised by the simultaneous use of land for agriculture and power production, which can raise area productivity by up to 70%. In the course of the capital raise, the share capital of TubeSolar is to be increased by a nominal amount of up to €1.0m to up to €11.0m. The new shares will be offeed to shareholders at a ratio of 10 (existing shares) to 1 (new share) as part of a public offer at a subscription price of €6.00 per new share. TubeSolar's major shareholder guarantees the capital increase in full. We had already anticipated the capital increase in our model. We confirm the Buy recommendation of our Initiating Coverage study of 29 October 2020 and the €9.40 price target.

Securities prospectus approved, subscription period begins on 8 December Following the approval of the securities prospectus by the Federal Financial Supervisory Authority (BaFin), the two-week subscription period will begin on 8 December. Shares that have not been subscribed will be offered to selected investors in a private placement following the subscription offer. TubeSolar's main shareholder guarantees the capital increase in full and will take over all new shares not purchased by shareholders as part of the subscription offer and subsequently not placed with other investors in the private placement following the subscription offer.

FINANCIAL HISTORY & PROJECTIONS

	2018	2019	2020E	2021E	2022E	2023E
Revenue (€m)	0.00	0.00	0.00	0.00	25.60	84.24
Y-o-y growth	n.a.	n.a.	n.a.	n.a.	n.a.	229.1%
EBIT (€m)	0.00	-0.25	-2.66	-1.17	0.46	13.46
EBIT margin	n.a.	n.a.	n.a.	n.a.	1.8%	16.0%
Net income (€m)	0.00	-0.25	-2.94	-1.10	-0.88	9.60
EPS (diluted) (€)	0.00	-0.03	-0.29	-0.09	-0.06	0.62
DPS (€)	0.00	0.00	0.00	0.00	0.00	0.00
FCF (€m)	0.00	-0.25	-8.93	-21.24	-39.29	-24.92
Net gearing	0.0	-37.5%	-7.5%	33.5%	40.5%	75.4%
Liquid assets (€m)	0.00	3.95	2.02	7.78	20.49	0.57

RISKS

The main risks are: technological risk, financing risk, product and production risks, and increasing competition.

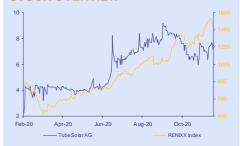
COMPANY PROFILE

TubeSolar AG is a manufacturer of solar modules. The patented technology, which integrates solar cells into a glas tube, aims particularly at power generation on sites which are used for agriculture at the same time. TubeSolar is located in Augsburg, Germany.

MARKET DATA	As of 03 Dec 2020
Closing Price	€ 7.15
Shares outstanding	10.00m
Market Capitalisation	€ 71.50m
52-week Range	€ 2.29 / 9.20
Avg. Volume (12 Months)	3.096

Multiples	2020E	2021E	2022E
P/E	n.a.	n.a.	n.a.
EV/Sales	0.0	0.0	1.1
EV/EBIT	n.a.	n.a.	63.4
Div. Yield	0.0%	0.0%	0.0%

STOCK OVERVIEW



COMPANY DATA	As of 30 Jun 2020
Liquid Assets	€ 2.06m
Current Assets	€ 2.25m
Intangible Assets	€ 9.56m
Total Assets	€ 12.61m
Current Liabilities	€ 3.03m
Shareholders' Equity	€ 9.41m

SHAREHOLDERS

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TSG 1. Vermögensverw. GmbH	55.2%
BD Vermögensverw. GmbH	11.1%
Solar Invest International SE	9.7%
BF Holding GmbH	5.1%
Free Float	18.9%



DCF valuation model								
All figures in EUR '000	2020E	2021E	2022E	2023E	2024E	2025E	2026E	2027E
Net sales	0	0	25,600	84,240	140,000	167,500	192,777	218,715
NOPLAT	-2,925	-1,166	458	11,771	24,166	28,021	30,863	34,481
+ depreciation & amortisation	1,192	2,910	6,492	10,495	13,420	15,304	16,125	14,742
Net operating cash flow	-1,733	1,744	6,950	22,266	37,586	43,325	46,987	49,223
- total investments (CAPEX and WC)	-7,180	-23,055	-44,909	-45,015	-29,872	-11,890	-12,919	-14,126
Capital expenditures	-6,880	-22,190	-44,256	-40,421	-24,662	-8,360	-9,131	-9,802
Working capital	-300	-865	-653	-4,593	-5,210	-3,530	-3,788	-4,324
Free cash flows (FCF)	-8,913	-21,311	-37,960	-22,749	7,714	31,435	34,068	35,097
PV of FCF's	-8,835	-18,704	-29,500	-15,654	4,698	16,954	16,270	14,841

All figures in thousands	
PV of FCFs in explicit period (2020E-2034E)	45,113
PV of FCFs in terminal period	50,925
Enterprise value (EV)	96,037
+ Net cash / - net debt (pro forma)	41,464
+ Investments / minority interests	0
Shareholder value	137,502
Diluted number of shares (discounted)	14,648
Fair value per share in EUR	9.40

WACC	12.9%
Cost of equity	14.6%
Pre-tax cost of debt	5.0%
Tax rate	30.0%
After-tax cost of debt	3.5%
Share of equity capital	85.0%
Share of debt capital	15.0%
Price target	9.40

Terminal growth rate								
8.9%	0.5%	1.0%	1.5%	2.0%	2.5%	3.0%	3.5%	
9.9%	14.14	14.32	14.52	14.74	14.99	15.28	15.62	
10.9%	12.16	12.28	12.40	12.54	12.69	12.87	13.07	
11.9%	10.56	10.63	10.71	10.80	10.89	11.00	11.12	
12.9%	9.24	9.28	9.33	9.39	9.45	9.51	9.59	
13.9%	8.13	8.16	8.19	8.23	8.27	8.31	8.35	
14.9%	7.20	7.22	7.24	7.26	7.28	7.31	7.34	
15.9%	6.41	6.42	6.43	6.45	6.46	6.47	6.49	

 $^{^{\}ast}$ for layout purposes the model shows numbers only to 2027, but runs until 2034



INCOME STATEMENT

All figures in EUR '000	2019A	2020E	2021E	2022E	2023E	2024E	2025E
Revenues	0	0	0	25,600	84,240	140,000	167,500
Cost of goods sold	0	1,956	2,500	12,800	42,120	72,545	89,841
Gross profit	0	-1,956	-2,500	12,800	42,120	67,455	77,659
Personnel costs	297	2,142	2,904	4,084	9,821	10,698	13,082
Other operating income	177	512	6,000	2,995	1,348	1,400	1,675
Other operating expenses	134	1,625	3,347	4,762	9,688	11,200	11,893
EBITDA	-254	-1,466	1,744	6,950	23,959	46,957	54,360
Depreciation and amortisation	0	1,192	2,910	6,492	10,495	13,420	15,304
Operating income (EBIT)	-254	-2,658	-1,166	458	13,464	33,537	39,055
Net financial result	0	-12	-400	-1,710	-2,175	-2,300	-2,275
Non-operating expenses	0	0	0	0	0	0	0
Pre-tax income (EBT)	-254	-2,670	-1,566	-1,252	11,289	31,237	36,780
Income taxes	0	267	-470	-376	1,693	9,371	11,034
Minority interests	0	0	0	0	0	0	0
Net income / loss	-254	-2,937	-1,096	-876	9,596	21,866	25,746
Diluted EPS (in €)	-0.03	-0.29	-0.09	-0.06	0.62	1.41	1.66
Ratios							
Gross margin	n.m.	n.m.	n.m.	50.0%	50.0%	48.2%	46.4%
EBITDA margin on revenues	n.m.	n.m.	n.m.	27.1%	28.4%	33.5%	32.5%
EBIT margin on revenues	n.m.	n.m.	n.m.	1.8%	16.0%	24.0%	23.3%
Net margin on revenues	n.m.	n.m.	n.m.	-3.4%	11.4%	15.6%	15.4%
Tax rate	0.0%	-10.0%	30.0%	30.0%	15.0%	30.0%	30.0%
Expenses as % of revenues							
Personnel costs	n.m.	n.m.	n.m.	16.0%	11.7%	7.6%	7.8%
Depreciation and amortisation	n.m.	n.m.	n.m.	25.4%	12.5%	9.6%	9.1%
Other operating expenses	n.m.	n.m.	n.m.	18.6%	11.5%	8.0%	7.1%
Y-Y Growth		n.m.	n.m.				
Revenues	n.m.	n.m.	n.m.	n.m.	229.1%	66.2%	19.6%
Operating income	n.m.	n.m.	n.m.	n.m.	2839.8%	149.1%	16.5%
Net income/ loss	n.m.	n.m.	n.m.	n.m.	n.m.	127.9%	17.7%



BALANCE SHEET

All figures in EUR '000	2019A	2020E	2021E	2022E	2023E	2024E	2025E
Assets							
Current assets, total	3,950	2,325	8,983	23,645	10,951	24,402	57,618
Cash and cash equivalents	3,950	2,025	7,783	20,489	565	5,979	34,139
Short-term investments	0	0	0	0	0	0	0
Receivables	0	200	200	2,104	6,924	11,918	14,752
Inventories	0	100	1,000	1,052	3,462	6,505	8,727
Other current assets	0	0	0	0	0	0	0
Non-current assets, total	7,070	14,364	35,058	72,822	102,749	113,991	107,046
Property, plant & equipment	0	6,742	28,494	67,080	97,689	109,478	102,859
Goodwill & other intangibles	0	7,397	6,339	5,518	4,835	4,288	3,962
Other assets	7,070	225	225	225	225	225	225
Total assets	11,020	16,689	44,041	96,468	113,700	138,393	164,664
Shareholders' equity & debt							
Current liabilities, total	418	417	452	1,755	4,391	8,219	23,744
Short-term debt	0	0	0	0	0	1,000	15,000
Accounts payable	65	65	100	1,403	4,039	6,866	8,391
Current provisions	0	0	0	0	0	0	0
Other current liabilities	352	352	352	352	352	352	352
Long-term liabilities, total	61	2,667	19,082	44,082	49,082	48,082	33,082
Long-term debt	0	1,000	16,000	41,000	46,000	45,000	30,000
Deferred revenue	0	0	0	0	0	0	0
Other liabilities	61	1,667	3,082	3,082	3,082	3,082	3,082
Minority interests	0	0	0	0	0	0	0
Shareholders' equity	10,541	13,604	24,507	50,631	60,227	82,092	107,839
Share capital	10,000	11,000	12,500	15,500	15,500	15,500	15,500
Capital reserve	795	5,795	16,295	40,295	40,295	40,295	40,295
Other reserves	0	0	0	0	0	0	0
Treasury stock	0	0	0	0	0	0	0
Loss carryforward / retained earnings	-254	-3,191	-4,288	-5,164	4,432	26,298	52,044
Total consolidated equity and debt	11,020	16,689	44,041	96,468	113,700	138,393	164,664
Ratios							
Current ratio (x)	9.45	5.57	19.85	13.47	2.49	2.97	2.43
Quick ratio (x)	9.45	5.33	17.64	12.87	1.71	2.18	2.06
Net debt	-3,950	-1,025	8,217	20,511	45,435	40,021	10,861
Net gearing	-37.5%	-7.5%	33.5%	40.5%	75.4%	48.8%	10.1%
Equity ratio	95.7%	81.5%	55.6%	52.5%	53.0%	59.3%	65.5%
Book value per share (in €)	1.05	1.36	2.04	3.62	3.89	5.30	6.96
Return on equity (ROE)	-2.4%	-21.6%	-4.5%	-1.7%	15.9%	26.6%	23.9%
Days of sales outstanding (DSO)	0.0	0.0	0.0	30.0	30.0	31.1	32.1
Days inventory outstanding	0.0	18.7	146.0	30.0	30.0	32.7	35.5
Days in payables (DIP)	0.0	12.1	14.6	40.0	35.0	34.5	34.1



CASH FLOW STATEMENT

All figures in EUR '000	2019A	2020E	2021E	2022E	2023E	2024E	2025E
EBIT	-254	-2,658	-1,166	458	13,464	33,537	39,055
Depreciation and amortisation	0	1,192	2,910	6,492	10,495	13,420	15,304
EBITDA	-254	-1,466	1,744	6,950	23,959	46,957	54,360
Changes in working capital	0	-300	-865	-653	-4,593	-5,210	-3,530
Other adjustments	0	-279	70	-1,334	-3,868	-11,671	-13,309
Operating cash flow	-254	-2,045	949	4,962	15,497	30,075	37,520
Investments in PP&E	0	-6,880	-22,190	-44,000	-40,000	-24,000	-7,614
Investments in intangibles	0	0	0	-256	-421	-662	-746
Free cash flow	-254	-8,925	-21,241	-39,294	-24,924	5,414	29,160
Acquisitions & disposals, net	0	0	0	0	0	0	0
Other investments	0	0	0	0	0	0	0
Investment cash flow	0	-6,880	-22,190	-44,256	-40,421	-24,662	-8,360
Debt financing, net	0	1,000	15,000	25,000	5,000	0	-1,000
Equity financing, net	0	6,000	12,000	27,000	0	0	0
Dividends paid	0	0	0	0	0	0	0
Other financing	0	0	0	0	0	0	0
Financing cash flow	0	7,000	27,000	52,000	5,000	0	-1,000
FOREX & other effects	0	0	0	0	0	0	0
Net cash flows	-254	-1,925	5,759	12,706	-19,924	5,414	28,160
Cash, start of the year	0	3,950	2,025	7,783	20,489	565	5,979
Cash, end of the year	-254	2,025	7,783	20,489	565	5,979	34,139
EBITDA/share (in €)	-0.03	-0.15	0.15	0.50	1.55	3.03	3.51
Y-Y Growth							
Operating cash flow	n.m.	n.m.	n.m.	422.9%	212.3%	94.1%	24.8%
Free cash flow	n.m.	n.m.	n.m.	n.m.	n.m.	n.m.	438.6%
EBITDA/share	n.m.	n.m.	n.m.	241.6%	211.4%	96.0%	15.8%



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The present financial analysis is based on the author's own knowledge and research. The author prepared this study without any direct or indirect influence exerted on the part of the analysed company. Parts of the financial analysis were possibly provided to the analysed company prior to publication in order to avoid inaccuracies in the representation of facts. However, no substantial changes were made at the request of the analysed company following any such provision.

ASSET VALUATION SYSTEM

First Berlin's system for asset valuation is divided into an asset recommendation and a risk assessment.

ASSET RECOMMENDATION

The recommendations determined in accordance with the share price trend anticipated by First Berlin in the respectively indicated investment period are as follows:

Category Current market capitalisation (in €)		1	2
		0 - 2 billion	> 2 billion
Strong Buy ¹	An expected favourable price trend of:	> 50%	> 30%
Buy	An expected favourable price trend of:	> 25%	> 15%
Add	An expected favourable price trend of:	0% to 25%	0% to 15%
Reduce	An expected negative price trend of:	0% to -15%	0% to -10%
Sell	An expected negative price trend of:	< -15%	< -10%

¹ The expected price trend is in combination with sizable confidence in the quality and forecast security of management

Our recommendation system places each company into one of two market capitalisation categories. Category 1 companies have a market capitalisation of $\le 0 - \le 2$ billion, and Category 2 companies have a market capitalisation of $> \le 2$ billion. The expected return thresholds underlying our recommendation system are lower for Category 2 companies than for Category 1 companies. This reflects the generally lower level of risk associated with higher market capitalisation companies.

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RECOMMENDATION & PRICE TARGET HISTORY

Report No.:	Date of publication	Previous day closing price	Recommendation	Price target
Initial Report	29 October 2020	€6.60	Buy	€9.40
21	↓	\downarrow	\downarrow	↓
2	Today	€7.15	Buy	€9.40

INVESTMENT HORIZON

Unless otherwise stated in the financial analysis, the ratings refer to an investment period of twelve months.

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Legally required information regarding

- key sources of information in the preparation of this research report
- valuation methods and principles
- sensitivity of valuation parameters

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