

ABO Wind AG

Deutschland / Cleantech Börse Hamburg Bloomberg: AB9 GR ISIN: DE0005760029

Foreign business remains strong

RATING PRICE TARGET

BUY € 22.00

Return Potential 52.8% Risk Rating High

PROJECT RIGHTS FOR 450 MW SOLD IN SPAIN

The sale of rights to wind and solar projects with a total volume of 450 MW is another spectacular success for ABO Wind's international business. In addition, the company has commissioned its largest solar park to date, a plant in Hungary with a capacity of 5 MW (AC). The international successes are a welcome compensation for a probably weaker business in Germany. The German market is currently suffering from project approval delays. We confirm our Buy recommendation and the €22.00 pricetarget.

Sale of project rights for 450 MW in Spain The rights to wind and solar projects were sold to two unnamed investors. Since ABO Wind has already secured grid connection rights for the projects, the biggest hurdle for successful project development has already been cleared. ABO Wind will take over the further development (planning, assessments, site acquisition, permits) and hand over the ready-to-construct projects to the investors. Commissioning of the projects is scheduled by 2022. The Spanish market should continue to be an important source of revenue and earnings for ABO Wind in the future, as the pipeline of further wind and solar projects has a total capacity of more than 1,000 MW

ABO Wind has not provided information on the revenue contribution of the rights' sale. Assuming that the project rights are split equally between wind and solar projects, and assuming an average selling price of €50,000/MW for wind projects and €25,000/MW for solar projects, this would mean a sales volume of around €17m. We expect that the purchase price will be paid in instalments starting with a down payment and followed by milestone payments according to the projects' progress. The sale of project rights generates significantly lower revenues compared to the sale of completed wind farms, but margins are very high.

(p.t.o.)

FINANCIAL HISTORY & PROJECTIONS

2016	2017	2018	2019E	2020E	2021E
122.29	146.79	150.26	148.10	173.25	184.69
52.4%	20.0%	2.4%	-1.4%	17.0%	6.6%
23.89	24.96	22.22	16.86	21.94	23.22
19.5%	17.0%	14.8%	11.4%	12.7%	12.6%
16.52	17.01	12.74	10.07	14.02	14.60
2.16	2.22	1.67	1.30	1.67	1.74
0.50	0.40	0.42	0.42	0.42	0.42
-5.81	29.98	-30.29	19.30	2.38	10.71
44.2%	7.8%	48.5%	16.0%	17.0%	11.8%
3.80	32.34	4.52	28.17	37.87	44.24
	122.29 52.4% 23.89 19.5% 16.52 2.16 0.50 -5.81 44.2%	122.29 146.79 52.4% 20.0% 23.89 24.96 19.5% 17.0% 16.52 17.01 2.16 2.22 0.50 0.40 -5.81 29.98 44.2% 7.8%	122.29 146.79 150.26 52.4% 20.0% 2.4% 23.89 24.96 22.22 19.5% 17.0% 14.8% 16.52 17.01 12.74 2.16 2.22 1.67 0.50 0.40 0.42 -5.81 29.98 -30.29 44.2% 7.8% 48.5%	122.29 146.79 150.26 148.10 52.4% 20.0% 2.4% -1.4% 23.89 24.96 22.22 16.86 19.5% 17.0% 14.8% 11.4% 16.52 17.01 12.74 10.07 2.16 2.22 1.67 1.30 0.50 0.40 0.42 0.42 -5.81 29.98 -30.29 19.30 44.2% 7.8% 48.5% 16.0%	122.29 146.79 150.26 148.10 173.25 52.4% 20.0% 2.4% -1.4% 17.0% 23.89 24.96 22.22 16.86 21.94 19.5% 17.0% 14.8% 11.4% 12.7% 16.52 17.01 12.74 10.07 14.02 2.16 2.22 1.67 1.30 1.67 0.50 0.40 0.42 0.42 0.42 -5.81 29.98 -30.29 19.30 2.38 44.2% 7.8% 48.5% 16.0% 17.0%

RISKS

Main risks are project development, currency, interest rate, and regulatory risks.

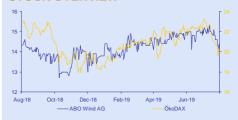
COMPANY PROFILE

ABO Wind is a project developer for renewable energies and has developed green power prjocts with a total capacity of more than 2,300 MW since its establishment in 1996. The company also offers the management of wind farms and biogas plants. ABO Wind has ca. 550 employees. Its headquarters are in Wiesbaden, Germany.

MARKET DATA	As of 02 Aug 2019
Closing Price	€ 14.40
Shares outstanding	7.65m
Market Capitalisation	€ 110.10m
52-week Range	€ 12.70 / 15.30
Avg. Volume (12 Months)	1.018

Multiples	2018	2019E	2020E
P/E	8.6	10.9	7.9
EV/Sales	1.0	1.0	0.9
EV/EBIT	6.9	9.1	7.0
Div Yield	2 9%	2 9%	2 9%

STOCK OVERVIEW



COMPANY DATA	As of 31 Dec 2018
Liquid Assets	€ 4.52m
Current Assets	€ 184.09m
Intangible Assets	€ 0.89m
Total Assets	€ 194.04m
Current Liabilities	€ 22.83m
Shareholders' Equity	€ 88.98m

SHAREHOLDERS

SHAREHOLDERS	
Familie Ahn	30.9%
Familie Bockholt	31.1%
Mainova	10.4%
Baden-Württembergische VK	6.0%
Free Float	21.6%

Largest solar plant in the company's history connected to the grid The solar plant in Hungary with a connected load of 5 MW has been constructed this year and receives an attractive feed-in tariff of 32 forints/kWh (equivalent to approx. 10 €Ct/kWh). The commissioning shows that ABO Wind has successfully extended its business model to the solar sector. Hungary should remain an attractive market for the company. Hungary more than doubled its solar capacity from 344 MW to 754 MW in 2018, and ABO Wind is developing a solar project pipeline including both early stage projects and projects with a total capacity of 40 MW, which, like the just commissioned project, have also secured feedin tariffs according to the KÁT system. The company has opened an office in Budapest due to the good market prospects in Hungary.

German wind market is suffering from approval delays In the first half of the year, only 287 MW were built onshore in Germany (H1/18: 1,626 MW, -82% y/y). This is the lowest installation in a half-year since the introduction of the Renewable Energy Act (EEG) in 2000. The very weak first half installation figure prompted the VDMA and BWE industry associations to lower their installation forecasts for 2019 to 1,500 MW (previously: almost 2,000 MW). This means that installations will be significantly below the already weak previous year (2,402 MW). The reasons for this are the unsatisfactory tender design in 2017, very lengthy approval procedures, and the growing number of objections from wind power opponents to planned wind projects. In its survey published in July, the "Fachagentur Windenergie an Land" shows that objections have been received against more than 1,000 MW. Meanwhile, the German Minister of Economics, Altmaier, has recognised the seriousness of the situation and will invite stakeholders to a crisis meeting in Berlin after the summer break.

ABO Wind can largely compensate for the weak German market through stronger international business ABO Wind is also likely to suffer from the weakness of the German market. The company anticipates a lower net income of ca. €10m this year following €12.7m in 2018. Following the February announcement of the sale of a 117 MW portfolio in France, ABO Wind's recent success in Spain shows once more that it is so well-positioned internationally that the weak German market should only lead to a temporary and relatively moderate drop in earnings. The international project pipeline has recently been expanded significantly and amounts to more than 4.5 GW in the wind sector and more than 1.2 GW in the solar sector. In the medium term, ABO Wind expects annual net results of more than €20m.

Buy recommendation confirmed at unchanged price target An updated DCF model still yields a €22.00 price target. We confirm our Buy recommendation. The stock remains attractively valued at a 2020E P/E of 8x and a 2020E EV/EBIT of 7x, and offers a 3% dividend yield.



DCF valuation model								
All figures in EUR '000	2019E	2020E	2021E	2022E	2023E	2024E	2025E	2026E
Net sales	148,100	173,252	184,687	196,138	207,549	218,832	229,893	240,636
NOPLAT	11,667	15,934	16,959	17,961	18,838	19,731	20,649	21,476
+ depreciation & amortisation	1,811	1,991	2,269	2,566	2,765	3,008	3,249	3,474
Net operating cash flow	13,478	17,926	19,229	20,527	21,603	22,738	23,898	24,950
- total investments (CAPEX and WC)	5,819	-15,542	-8,522	-9,680	-9,348	-9,459	-9,516	-9,514
Capital expenditures	-2,222	-2,945	-3,324	-3,334	-3,491	-3,641	-3,783	-3,916
Working capital	8,041	-12,597	-5,198	-6,346	-5,857	-5,819	-5,733	-5,598
Free cash flows (FCF)	19,298	2,383	10,707	10,847	12,255	13,279	14,383	15,437
PV of FCF's	18,664	2,126	8,806	8,229	8,574	8,567	8,558	8,471

All figures in thousands	
PV of FCFs in explicit period (2019E-2033E)	125,249
PV of FCFs in terminal period	102,731
Enterprise value (EV)	227,980
+ Net cash / - net debt	-43,164
+ Investments / minority interests	39
Shareholder value	184,855

Fair value per share in EUR	22.00

WACC	8.4%
Cost of equity	13.0%
Pre-tax cost of debt	5.5%
Tax rate	30.0%
After-tax cost of debt	3.9%
Share of equity capital	50.0%
Share of debt capital	50.0%
Fair value per share in EUR	22.00

Terminal	growth rate	

reminal growth rate								
	0.5%	1.0%	1.5%	2.0%	2.5%	3.0%	3.5%	
4.4%	52.44	56.65	62.30	70.28	82.41	103.04	145.99	
5.4%	39.49	41.57	44.18	47.55	52.08	58.48	68.19	
6.4%	31.02	32.15	33.50	35.16	37.23	39.92	43.53	
7.4%	25.09	25.73	26.48	27.37	28.44	29.75	31.39	
8.4%	20.73	21.11	21.54	22.04	22.63	23.32	24.15	
9.4%	17.39	17.62	17.88	18.17	18.51	18.89	19.35	
10.4%	14.78	14.92	15.07	15.24	15.44	15.66	15.92	
11.4%	12.67	12.76	12.85	12.95	13.07	13.20	13.34	

 $^{^{\}ast}$ for layout purposes the model shows numbers only to 2026, but runs until 2033



All figures in EUR '000	2016A	2017A	2018A	2019E	2020E	2021E
Revenues	122,292	146,786	150,264	148,100	173,252	184,687
Changes in inventory	22,320	29,468	-619	26,214	30,319	31,951
Own work	0	0	256	0	0	0
Total output	144,612	176,254	149,901	174,314	203,571	216,638
Cost of goods sold	76,198	99,298	70,684	96,709	118,418	126,788
Gross profit	46,094	47,488	79,580	51,391	54,834	57,899
Personnel costs	27,095	32,039	36,305	38,050	40,000	42,028
Other operating income	2,495	3,750	2,973	2,518	2,945	2,955
Other operating expenses	9,392	10,926	13,465	14,200	14,500	15,144
EBITDA	34,421	37,741	32,420	27,872	33,599	35,633
Depreciation and amortisation	1,575	1,449	1,438	1,811	1,991	2,269
Depreciation of current assets	8,957	11,328	8,766	9,204	9,665	10,148
Operating income (EBIT)	23,889	24,964	22,216	16,857	21,943	23,216
Net financial result	-1,535	-1,489	-918	-1,594	-1,915	-2,361
Pre-tax income (EBT)	22,354	23,475	21,298	15,263	20,027	20,855
Income taxes	5,810	6,455	8,537	5,189	6,008	6,257
Minority interests	-24	-9	-17	0	0	0
Net income / loss	16,519	17,011	12,745	10,073	14,019	14,599
Diluted EPS (in €)	2.16	2.22	1.67	1.30	1.67	1.74
Ratios						
Gross margin on total output	31.9%	26.9%	53.1%	29.5%	26.9%	26.7%
Gross margin on revenues	37.7%	32.4%	53.0%	34.7%	31.7%	31.4%
EBITDA margin on revenues	28.1%	25.7%	21.6%	18.8%	19.4%	19.3%
EBIT margin on revenues	19.5%	17.0%	14.8%	11.4%	12.7%	12.6%
EBT margin on revenues	18.3%	16.0%	14.2%	10.3%	11.6%	11.3%
Net margin on revenues	13.5%	11.6%	8.5%	6.8%	8.1%	7.9%
Tax rate	26.0%	27.5%	40.1%	34.0%	30.0%	30.0%
Expenses as % of revenues						
Personnel costs	22.2%	21.8%	24.2%	25.7%	23.1%	22.8%
Depreciation and amortisation	1.3%	1.0%	1.0%	1.2%	1.1%	1.2%
Depreciation of current assets	7.3%	7.7%	5.8%	6.2%	5.6%	5.5%
Other operating expenses	7.7%	7.4%	9.0%	9.6%	8.4%	8.2%
Y-Y Growth		00.007	6 101	4 404	4= 00/	2.20:
Revenues	52.4%	20.0%	2.4%	-1.4%	17.0%	6.6%
Operating income	68.8%	4.5%	-11.0%	-24.1%	30.2%	5.8%
Net income/ loss	112.5%	3.0%	-25.1%	-21.0%	39.2%	4.1%



BALANCE SHEET

All figures in EUR '000	2016A	2017A	2018A	2019E	2020E	2021E
<u>Assets</u>						
Current assets, total	136,074	163,462	184,057	201,930	225,582	235,399
Cash and cash equivalents	3,797	32,335	4,517	28,166	37,869	44,235
Short-term investments	7,270	12,500	18,747	18,747	18,747	18,747
Receivables	17,278	24,387	20,231	22,316	28,480	30,360
Inventories	45,883	48,822	71,451	63,590	71,375	72,946
Other current assets	60,181	43,700	67,694	67,694	67,694	67,694
Non-current assets, total	10,478	10,487	9,985	10,395	11,349	12,404
Property, plant & equipment	4,782	4,627	4,553	4,759	5,679	6,859
Goodwill & other intangibles	273	293	894	1,098	1,132	1,007
Financial assets	5,424	5,567	4,538	4,538	4,538	4,538
Other assets	0	0	33	33	33	33
Total assets	146,552	173,949	194,042	212,325	236,931	247,803
Shareholders' equity & debt						
Current liabilities, total	36,271	42,615	43,848	49,322	58,389	66,831
Short-term debt	4,346	1,125	844	4,000	11,447	21,636
Accounts payable	6,864	9,914	10,983	13,248	14,599	12,852
Current provisions	16,151	23,881	21,014	21,014	21,014	21,014
Other current liabilities	8,909	7,695	11,007	11,060	11,329	11,329
Long-term liabilities, total	43,544	51,780	61,219	55,719	60,772	52,136
Long-term debt	28,937	37,410	46,837	41,337	46,390	37,754
Deferred revenue	0	0	0	0	0	0
Other liabilities	14,606	14,370	14,382	14,382	14,382	14,382
Minority interests	32	42	39	39	39	39
Shareholders' equity	66,706	79,512	88,937	107,245	117,731	128,797
Share capital	7,646	7,646	7,646	8,413	8,413	8,413
Capital reserve	13,542	13,542	13,542	24,275	24,275	24,275
Other reserves	0	0	0	0	0	0
Loss carryforward / retained earnings	45,529	58,553	68,016	74,824	85,310	96,376
Total consolidated equity and debt	146,552	173,949	194,042	212,325	236,931	247,803
Ratios						
Current ratio (x)	3.75	3.84	4.20	4.09	3.86	3.52
Quick ratio (x)	2.49	2.69	2.57	2.80	2.64	2.43
Net debt	29,486	6,200	43,164	17,171	19,968	15,155
Net gearing	44.2%	7.8%	48.5%	16.0%	17.0%	11.8%
Book value per share (in €)	8.72	10.40	11.63	13.80	13.99	15.31
Return on equity (ROE)	24.8%	21.4%	14.3%	9.4%	11.9%	11.3%
Return on Assets (ROA)	12.5%	10.8%	7.5%	5.6%	6.8%	7.0%
Return on Investment (ROI)	11.3%	9.8%	6.6%	4.7%	5.9%	5.9%
Return on average capital employed (ROCE)	27.1%	26.1%	20.6%	13.6%	17.3%	17.0%
Days of sales outstanding (DSO)	51.6	60.6	49.1	55.0	60.0	60.0
Days inventory outstanding	219.8	179.5	369.0	240.0	220.0	210.0
Days in payables (DIP)	32.9	36.4	56.7	50.0	45.0	37.0

CASH FLOW STATEMENT

All figures in EUR '000	2016A	2017A	2018A	2019E	2020E	2021E
EBIT	23,889	24,964	22,216	16,857	21,943	23,216
Depreciation and amortisation	1,575	1,449	1,438	1,811	1,991	2,269
EBITDA	25,464	26,413	23,654	18,668	23,934	25,485
Changes in working capital	-27,327	2,817	-39,067	8,041	-12,597	-5,198
Other adjustments	-1,527	2,216	-12,697	-5,189	-6,008	-6,257
Operating cash flow	-3,390	31,446	-28,110	21,519	5,329	14,031
Investments in PP&E	-2,279	-1,257	-1,393	-1,481	-2,252	-2,770
Investments in intangibles	-145	-213	-782	-741	-693	-554
Free cash flow	-5,814	29,976	-30,285	19,298	2,383	10,707
Acquisitions & disposals, net	340	169	179	0	0	0
Other investments	-377	4	-1,246	0	0	0
Investment cash flow	-2,461	-1,297	-3,242	-2,222	-2,945	-3,324
Debt financing, net	2,069	4,130	9,120	-2,344	12,500	1,553
Equity financing, net	0	0	0	11,500	0	0
Dividends paid	-1,911	-3,823	-3,058	-3,211	-3,265	-3,533
Other financing	-1,766	-1,816	-2,389	-1,594	-1,915	-2,361
Financing cash flow	-1,609	-1,508	3,672	4,351	7,320	-4,340
FOREX & other effects	-16	-103	-138	0	0	0
Net cash flows	-7,475	28,538	-27,818	23,649	9,703	6,366
Cash, start of the year	9,505	3,797	32,335	4,517	28,166	37,869
Cash, end of the year	2,030	32,335	4,517	28,166	37,869	44,235
EBITDA/share (in €)	4.50	4.94	4.24	3.59	3.99	4.24
Y-Y Growth						
Operating cash flow	n.m.	n.m.	n.m.	n.m.	-75.2%	163.3%
Free cash flow	n.m.	n.m.	n.m.	n.m.	-87.6%	349.2%
Financial Cashflow	n.m.	n.m.	n.m.	18.5%	68.2%	n.m.
EBITDA/share	71.2%	9.6%	-14.1%	-15.4%	11.4%	6.1%



FIRST BERLIN RECOMMENDATION & PRICE TARGET HISTORY

Report No.:	Date of publication	Previous day closing price	Recommendation	Price target
Initial Report	12 April 2017	€7.80	BUY	€14.00
210	\downarrow	\downarrow	\downarrow	↓
11	3 December 2018	€13.90	BUY	€20.50
12	20 February 2019	€14.80	BUY	€21.50
13	13 June 2019	€14.10	BUY	€22.00
14	Today	€14.40	BUY	€22.00

Authored by: Dr. Karsten von Blumenthal, Analyst

Company responsible for preparation:

First Berlin Equity Research GmbH Mohrenstraße 34 10117 Berlin

Tel. +49 (0)30 - 80 93 96 85 Fax +49 (0)30 - 80 93 96 87

info@firstberlin.com www.firstberlin.com

Person responsible for forwarding or distributing this financial analysis: Martin Bailey

Copyright© 2019 First Berlin Equity Research GmbH No part of this financial analysis may be copied, photocopied, duplicated or distributed in any form or media whatsoever without prior written permission from First Berlin Equity Research GmbH. First Berlin Equity Research GmbH shall be identified as the source in the case of quotations. Further information is available on request.

INFORMATION PURSUANT TO SECTION 34B OF THE GERMAN SECURITIES TRADING ACT [WPHG], TO REGULATION (EU) NO 596/2014 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF APRIL 16, 2014, ON MARKET ABUSE (MARKET ABUSE REGULATION) AND TO THE GERMAN ORDINANCE ON THE ANALYSIS OF FINANCIAL INSTRUMENTS [FINANV]

First Berlin Equity Research GmbH (hereinafter referred to as: "First Berlin") prepares financial analyses while taking the relevant regulatory provisions, in particular the German Securities Trading Act [VVpHG], Regulation (EU) No 596/2014 of the European Parliament and of the Council of April 16, 2014, on market abuse (market abuse regulation) and the German Ordinance on the Analysis of Financial Instruments [FinAnV] into consideration. In the following First Berlin provides investors with information about the statutory provisions that are to be observed in the preparation of financial analyses.

CONFLICTS OF INTEREST

In accordance with Section 34b Paragraph 1 of the German Securities Trading Act [WpHG] and Regulation (EU) No 596/2014 of the European Parliament and of the Council of April 16, 2014, on market abuse (market abuse regulation) financial analyses may only be passed on or publicly distributed if circumstances or relations which may cause conflicts of interest among the authors, the legal entities responsible for such preparation or companies associated with them are disclosed along with the financial analysis.

First Berlin offers a range of services that go beyond the preparation of financial analyses. Although First Berlin strives to avoid conflicts of interest wherever possible, First Berlin may maintain the following relations with the analysed company, which in particular may constitute a potential conflict of interest (further information and data may be provided on request):

- The author, First Berlin, or a company associated with First Berlin holds an interest of more than five percent in the share capital of the analysed company;
- The author, First Berlin, or a company associated with First Berlin provided investment banking or consulting services for the analysed company within the past twelve months for which remuneration was or was to be paid;
- The author, First Berlin, or a company associated with First Berlin reached an agreement with the analysed company
 for preparation of a financial analysis for which remuneration is owed;
- The author, First Berlin, or a company associated with First Berlin has other significant financial interests in the analysed company;

In order to avoid and, if necessary, manage possible conflicts of interest both the author of the financial analysis and First Berlin shall be obliged to neither hold nor in any way trade the securities of the company analyzed. The remuneration of the author of the financial analysis stands in no direct or indirect connection with the recommendations or opinions represented in the financial analysis. Furthermore, the remuneration of the author of the financial analysis is neither coupled directly to financial transactions nor to stock exchange trading volume or asset management fees.

If despite these measures one or more of the aforementioned conflicts of interest cannot be avoided on the part of the author or First Berlin, then reference shall be made to such conflict of interest.

INFORMATION PURSUANT TO SECTION 64 OF THE GERMAN SECURITIES TRADING ACT [WPHG] (2ND FIMANOG) OF 23 JUNE 2017, DIRECTIVE 2014/65/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 15 MAY 2014 ON MARKETS IN FINANCIAL INSTRUMENTS AND AMENDING DIRECTIVE 2002/92/EC AND DIRECTIVE 2011/61/EU, ACCOMPANIED BY THE MARKETS IN FINANCIAL INSTRUMENTS REGULATION (MIFIR, REG. EU NO. 600/2014)

First Berlin notes that is has concluded a contract with the issuer to prepare financial analyses and is paid for that by the issuer. First Berlin makes the financial analysis simultaneously available for all interested security financial services companies. First Berlin thus believes that it fulfils the requirements of section 64 WpHG for minor non-monetary benefits.



PRICE TARGET DATES

Unless otherwise indicated, current prices refer to the closing prices of the previous trading day.

AGREEMENT WITH THE ANALYSED COMPANY AND MAINTENANCE OF OBJECTIVITY

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 €)			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.

RISK ASSESSMENT

The First Berlin categories for risk assessment are low, average, high and speculative. They are determined by ten factors: Corporate governance, quality of earnings, management strength, balance sheet and financial risk, competitive position, standard of financial disclosure, regulatory and political uncertainty, strength of brandname, market capitalisation and free float. These risk factors are incorporated into the First Berlin valuation models and are thus included in the target prices. First Berlin customers may request the models.

INVESTMENT HORIZON

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

UPDATES

At the time of publication of this financial analysis it is not certain whether, when and on what occasion an update will be provided. In general First Berlin strives to review the financial analysis for its topicality and, if required, to update it in a very timely manner in connection with the reporting obligations of the analysed company or on the occasion of ad hoc notifications.

SUBJECT TO CHANGE

The opinions contained in the financial analysis reflect the assessment of the author on the day of publication of the financial analysis. The author of the financial analysis reserves the right to change such opinion without prior notification.

Legally required information regarding

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

can be accessed through the following internet link: http://firstberlin.com/disclaimer-english-link/

SUPERVISORY AUTHORITY: Bundesanstalt für Finanzdienstleistungsaufsicht (German Federal Financial Supervisory Authority) [BaFin], Graurheindorferstraße 108, 53117 Bonn and Lurgiallee 12, 60439 Frankfurt

EXCLUSION OF LIABILITY (DISCLAIMER)

RELIABILITY OF INFORMATION AND SOURCES OF INFORMATION

The information contained in this study is based on sources considered by the author to be reliable. Comprehensive verification of the accuracy and completeness of information and the reliability of sources of information has neither been carried out by the author nor by First Berlin. As a result no warranty of any kind whatsoever shall be assumed for the accuracy and completeness of information and the reliability of sources of information, and neither the author nor First Berlin, nor the person responsible for passing on or distributing the financial analysis shall be liable for any direct or indirect damage incurred through reliance on the accuracy and completeness of information and the reliability of sources of information.

RELIABILITY OF ESTIMATES AND FORECASTS

The author of the financial analysis made estimates and forecasts to the best of the author's knowledge. These estimates and forecasts reflect the author's personal opinion and judgement. The premises for estimates and forecasts as well as the author's perspective on such premises are subject to constant change. Expectations with regard to the future performance of a financial instrument are the result of a measurement at a single point in time and may change at any time. The result of a financial analysis always describes only one possible future development — the one that is most probable from the perspective of the author — of a number of possible future developments.

Any and all market values or target prices indicated for the company analysed in this financial analysis may not be achieved due to various risk factors, including but not limited to market volatility, sector volatility, the actions of the analysed company, economic climate, failure to achieve earnings and/or sales forecasts, unavailability of complete and precise information and/or a subsequently occurring event which affects the underlying assumptions of the author and/or other sources on which the author relies in this document. Past performance is not an indicator of future results; past values cannot be carried over into the future.

Consequently, no warranty of any kind whatsoever shall be assumed for the accuracy of estimates and forecasts, and neither the author nor First Berlin, nor the person responsible for passing on or distributing the financial analysis shall be liable for any direct or indirect damage incurred through reliance on the correctness of estimates and forecasts.



INFORMATION PURPOSES, NO RECOMMENDATION, SOLICITATION, NO OFFER FOR THE PURCHASE OF SECURITIES

The present financial analysis serves information purposes. It is intended to support institutional investors in making their own investment decisions; however in no way provide the investor with investment advice. Neither the author, nor First Berlin, nor the person responsible for passing on or distributing the financial analysis shall be considered to be acting as an investment advisor or portfolio manager vis-à-vis an investor. Each investor must form his own independent opinion with regard to the suitability of an investment in view of his own investment objectives, experience, tax situation, financial position and other circumstances.

The financial analysis does not represent a recommendation or solicitation and is not an offer for the purchase of the security specified in this financial analysis. Consequently, neither the author nor First Berlin, nor the person responsible for passing on or distributing the financial analysis shall as a result be liable for losses incurred through direct or indirect employment or use of any kinding whatsoever of information or statements arising out of this financial analysis.

A decision concerning an investment in securities should take place on the basis of independent investment analyses and procedures as well as other studies including, but not limited to, information memoranda, sales or issuing prospectuses and not on the basis of this document.

NO ESTABLISHMENT OF CONTRACTUAL OBLIGATIONS

By taking note of this financial analysis the recipient neither becomes a customer of First Berlin, nor does First Berlin incur any contractual, quasi-contractual or pre-contractual obligations and/or responsibilities toward the recipient. In particular no information contract shall be established between First Berlin and the recipient of this information.

NO OBLIGATION TO UPDATE

First Berlin, the author and/or the person responsible for passing on or distributing the financial analysis shall not be obliged to update the financial analysis. Investors must keep themselves informed about the current course of business and any changes in the current course of business of the analysed company.

DUPLICATION

Dispatch or duplication of this document is not permitted without the prior written consent of First Berlin.

SEVERABILITY

Should any provision of this disclaimer prove to be illegal, invalid or unenforceable under the respectively applicable law, then such provision shall be treated as if it were not an integral component of this disclaimer; in no way shall it affect the legality, validity or enforceability of the remaining provisions.

APPLICABLE LAW, PLACE OF JURISDICTION

The preparation of this financial analysis shall be subject to the law obtaining in the Federal Republic of Germany. The place of jurisdiction for any disputes shall be Berlin (Germany).

NOTICE OF DISCLAIMER

By taking note of this financial analysis the recipient confirms the binding nature of the above explanations.

By using this document or relying on it in any manner whatsoever the recipient accepts the above restrictions as binding for the recipient.

QUALIFIED INSTITUTIONAL INVESTORS

First Berlin financial analyses are intended exclusively for qualified institutional investors.

This report is not intended for distribution in the USA and/or Canada.