# PNE WIND AG

Germany / Cleantech Primary exchange: Frankfurt Bloomberg: PNE3 GR ISIN: DE000A0JBPG2

Q2 figures

Y
50
5%
gh

# **STRONG Q3 EXPECTED**

On 10 August, PNE Wind reported Q2 figures and held a conference call. Figures were below the previous year's numbers and our estimates, due mainly to high costs associated with the build-up of the new European 200+ MW wind farm portfolio. In Q3, however, PNE Wind will receive a low double-digit Euro million earn-out payment for the portfolio sold to Allianz in 2016. Furthermore, Q3 will benefit from PNE Wind's first major success in the US, the sale of the rights to an 80 MW project in Montana. We have therefore increased our 2017E EBIT forecast and believe that PNE Wind is well on track to reach its 2017 EBIT guidance of €0-15m. An updated DCF model still yields a €3.50 price target. We reiterate our Buy rating.

Q2 figures burdened by expenditures for new European 200+ MW wind farm portfolio Sales fell 42% to €19.0m (Q2/16: €32.9m, FBe: €20.6m) and EBIT amounted to €-5.3m (Q2/16: €-1.7m, FBe: €0.0m). The main reason for the weaker figures is high expenditures traced to the build-up of the new 200+ wind farm portfolio and the portfolio-related postponement of revenues and earnings. In H1, EBT generated by the new portfolio and eliminated in the consolidated group figures amounted to €4.5m. The net result was €-4.5m vs. €4.1m in Q2/16 (FBe: €-1.6m). The company benefited from significantly lower interest expenses (€2.6m vs. €4.4m) and a higher tax refund (€2.2m vs.€0.8m in Q2/16). Diluted EPS were €-0.06 vs. €-0.05 in Q2/16, see figure 1 overleaf.

Balance sheet remains very solid Short-term debt rose significantly from €11m at 31/12/2016 to €108m as the €100m corporatebond will be due in May 2018. Accordingly, long-term debt fell from €116m to €25m. In total, financia debt edged slightly higher to €133m from €127m at the end of last year. As the cash position declined from €148m at the beginning of this year to €122m, PNE Wind now has a small net debt position of €10m (end 2016: net cash position of €20m). Equity fell from €229m at 31/12/2016 to €212n, due mainly to the dividend payment of €9.2m and the H1 net loss of €45m. (p.t.o.)

### **FINANCIAL HISTORY & PROJECTIONS**

· ·	2014	2015	2016	2017E	2018E	2019E
Revenue (€m)	211.27	109.52	248.58	142.30	180.62	198.69
Y-o-y growth	46.7%	-48.2%	127.0%	-42.8%	26.9%	10.0%
EBIT (€m)	2.68	9.77	97.04	12.32	16.64	18.78
EBIT margin	1.3%	8.9%	39.0%	8.7%	9.2%	9.5%
Net income (€m)	-12.99	3.47	68.97	4.22	9.43	9.03
EPS (diluted) (€)	-0.21	0.05	0.88	0.06	0.12	0.11
DPS (€)	0.04	0.04	0.12	0.04	0.04	0.04
FCF (€m)	-34.33	-105.38	-44.27	-46.84	-69.13	-98.72
Net gearing	64.9%	98.1%	-12.6%	11.2%	40.7%	80.7%
Liquid assets (€m)	72.18	86.08	147.69	99.50	62.31	65.53

# RISKS

Risks to our price target include, but are not limited to: changes in legislation, project financing risks, project delays, and project approval risks.

# **COMPANY PROFILE**

PNE WIND AG is an international wind energy project developer for on- and offshore wind farms. The company is based in Cuxhaven, Germany.

MARKET DA	ТΔ	As of 11	Aug 2017			
	As of 11 Aug 2017					
Closing Price			€ 2.62			
Shares outstand	ding		76.56m			
Market Capitalis	sation	€	200.73m			
52-week Range	1	€ 1.97 / 2.84				
Avg. Volume (1	2 Months)	230,273				
Multiples	2016	2017E	2018E			
P/E	3.0	46.9	21.5			
EV/Sales	0.7	1.3	1.0			
EV/EBIT	1.9	14.7	10.9			
Div. Yield	4.6%	1.5%	1.5%			

# **STOCK OVERVIEW**



COMPANY DATA	As of 30 Jun 2017
Liquid Assets	€ 122.12m
Current Assets	€ 259.03m
Intangible Assets	€ 67.13m
Total Assets	€ 403.22m
Current Liabilities	€ 161.28m
Shareholders' Equity	€ 212.05m
SHAREHOLDERS	
Internat. Kapitalanlageges. mbH	10.0%

Internat. Kapitalanlageges. mbH	10.0%
Active Ownership Fund SCS	5.1%
Axxion S.A.	3.2%
Free Float	81.8%

As the balance sheet total shrank from €432m to €403n the equity share remained stable at a comfortable 53%.

**Operating cash flow reflects portfolio build-up** Operating cash outflow amounted to  $\in$ 37m due mainly to an increase in inventories and other assets by  $\in$ 24m. Investing cash flow was positive at  $\in$ 8m due to the disposal of consolidated entities (Atlantis I), which resulted in a cash inflow of  $\in$ 18m. Financing cash inflow amounted to almost  $\in$ 4m. As a result, net cash outflow was almost  $\in$ 26m.

All figures in €m	Q2-17A	Q2-17E	Delta	Q2-16	Delta	H1 2017	H1 2016	Delta
Sales	19.03	29.58	-35.7%	32.86	-42.1%	39.45	44.80	-11.9%
EBIT	-5.29	0.02	-	-1.62	-	-4.95	-1.44	-
margin	-27.8%	0.1%		-4.9%		-12.6%	-3.2%	
Net income	-4.49	-1.62	-	-4.10	-	-6.48	-7.77	-
margin	-23.6%	-5.5%		-12.5%		-16.4%	-17.3%	
EPS (diluted) in €	-0.06	-0.02	-	-0.05	-	-0.08	-0.10	-

# Figure 1: Reported figures versus forecasts

Source: First Berlin Equity Research, PNE WIND AG

**Earn-out payment of ≥10m in Q3** In Q3, PNE Wind will receive an earn-out payment amounting to a low double-digit million Euro figure for its wind farm portfolio it sold to Allianz in 2016, since PNE participates in the positive effects of a successful refinancing.

**First large US project sale in July** PNE Wind's subsidiary WKN sold an 80 MW project to a leading US project developer. The project value could amount to €7m and contribute €5-6m to Q3 EBIT (see our comment of 13 July 2017).

**High onshore construction activity in Germany and France** In H1, 94 MW were under construction, 53 MW in Germany and 41 MW in France. In Germany, the 43 MW Kührstedt-Alfstedt project and the 9.9 MW Kirchengel project look set to be commissioned this year. Furthermore, PNE Wind commissioned the last two turbines (6 MW) of the Altenbruch repowering project, which is part of the portfolio sold to Allianz in 2016. In May, subsidiary WKN sold the last of the three turbines of the Kirchengel wind farm in Thuringia. The Kührstedt-Alfstedt wind farm will be part of the new 200+ MW portfolio. In France, PNE Wind started construction of a 9 MW wind farm in Q2. In addition, two projects totalling 32 MW are being built for John Laing.

**Good offshore results in H1** In January, PNE sold the Atlantis I offshore project (584 MW) to Vattenfall. The project was, however, not successful in the first German offshore tender in April 2017. PNE Wind indicated that further milestone payments are possible even if the project is again unsuccessful in the next tender round in April 2018. Another offshore project developed by PNE Wind and now owned by DONG Energy, Gode Wind 3 (110 MW), however, was successful in the tender. PNE Wind looks set to receive up to €24m in further milestone payments for the offshore projects Borkum Riffgrund II and Gode Wind 3 & 4.

In 2015, the German Federal Maritime and Hydrographic Agency (BSH) suspended plan approval procedures for offshore projects in zones 3-5 in the North Sea as the German government slowed down the offshore expansion path. The Offshore Wind Energy Act (WindSeeG) and the new EEG, which have been valid since 1 January 2017, have significantly increased the risks for projects in zones 3-5. PNE Wind has a pipeline of 5 proprietary projects in these zones, which had a total book value of  $\in$ 24m at the end of H1/17. At the end of July, the company filed a constitutional complaint and hopes to be at least compensated for the costs already incurred. Furthermore, PNE Wind has been developing alternative options (power to gas) for the offshore projects.

**Chilocco wind farm project (200 MW) in the US makes progress** PNE Wind indicated that the Chilocco project is at an advanced stage and may be sold as soon as this year. We continue to model a sale in 2018E. If PNE Wind succeeds in selling the project in 2017, we believe that the company will raise its 2017 guidance.

**EBIT guidance confirmed** PNE Wind still expects 2017 EBIT in the range of  $\notin$ 0-15m. Given the  $\geq \notin$ 10m earn-out payment and the  $\notin$ 5-6m EBIT contribution from the US project, we believe that PNE Wind will easily reach the guidance range despite the H1 EBIT of  $\notin$ -5.0m.

**Estimates adjusted** We lower our 2017E revenue forecast as revenue generation depends more on project right sales than expected. In comparison to a turn-key wind farm project, the sale of project rights has a low top line, but a high EBIT impact. Although H1 EBIT was below our estimate, we increase our 2017E EBIT forecast due to the unexpected earn-out payment (see figure 2). Forecasts for the coming years remain unchanged. We note, however, that visibility for 2018E is relatively low. In Germany, PNE Wind has to be successful in the tender process to build projects. The company did not take part in the first two tender rounds in May and August and has not yet decided whether to take part in the third round in November or in the first round in 2018 (February). Currently, PNE Wind's German phase III projects amount to 60 MW.

### Figure 2: Revisions to forecasts

		2017E			2018E			2019E	
All figures in €m	Old	New	Delta	Old	New	Delta	Old	New	Delta
Sales	170.40	142.30	-16.5%	180.62	180.62	0.0%	198.69	198.69	0.0%
EBIT	7.48	12.32	64.7%	16.64	16.64	0.0%	18.78	18.78	0.0%
margin	4.4%	8.7%		9.2%	9.2%		9.5%	9.5%	
Net income	3.05	4.22	38.5%	9.43	9.43	0.0%	9.03	9.03	0.0%
margin	1.8%	3.0%		5.2%	5.2%		4.5%	4.5%	
EPS (diluted) in €	0.04	0.06	39.8%	0.12	0.12	0.0%	0.11	0.11	0.0%

Source: First Berlin Equity Research

**Buy reiterated at unchanged price target** An updated DCF model yields an unchanged price target of  $\leq$ 3.50. We reiterate our Buy rating.

3.0%

11.62

6.55

4.70 3.73

3.11 2.68

2.36

3.5%

18.70

7.67

5.09

3.90

3.20

2.73

2.38

# **VALUATION MODEL**

DCF valuation model								
All figures in EUR '000	2017E	2018E	2019E	2020E	2021E	2022E	2023E	2024E
Net sales	142,300	180,624	198,686	288,095	201,667	205,700	209,814	214,010
NOPLAT	11,734	14,754	16,940	93,847	14,540	13,740	12,963	12,945
+ depreciation & amortisation	6,669	8,866	13,648	19,520	6,110	6,624	7,070	7,452
Net operating cash flow	18,403	23,620	30,588	113,367	20,650	20,364	20,033	20,396
- total investments (CAPEX, WC, other)	-57,846	-86,346	-120,210	187,594	13,691	-11,468	-11,004	-10,513
Capital expenditures	-78,265	-68,637	-103,317	172,857	-11,825	-11,575	-11,311	-11,031
Working capital	22,429	-16,899	-16,188	15,332	23,995	-1,635	-1,668	-1,702
Free cash flows (FCF)	-39,442	-62,726	-89,622	300,962	34,341	8,896	9,029	9,883
PV of FCF's	-38,408	-57,035	-76,093	238,560	25,417	6,148	5,827	5,955

All figures in thousands	
PV of FCFs in explicit period (2017E-2031E)	153,252
PV of FCFs in terminal period	106,642
Enterprise value (EV)	259,894
+ Net cash / - net debt	20,063
+ Investments / minority interests	-5,393
Shareholder value	274,564

Fair value per share in EUR	3.50									
WACC	7.1%					Terminal g	Terminal growth rate			
Cost of equity	11.8%			0.5%	1.0%	1.5%	2.0%			
Pre-tax cost of debt	7.0%		4.1%	5.90	6.19	6.76	7.61			
Tax rate	25.0%	o	5.1%	4.73	4.79	5.05	5.39			
After-tax cost of debt	5.3%	AC	6.1%	3.95	3.93	4.06	4.22			
Share of equity capital	28.0%	$\geq$	7.1%	3.39	3.33	3.41	3.49			
Share of debt capital	72.0%		8.1%	2.96	2.96	2.94	2.99			
			9.1%	2.62	2.55	2.58	2.61			
Fair value per share in EUR	3.50		10.1%	2.35	2.28	2.29	2.31			

\* for layout purposes the model shows numbers only to 2024, but runs until 2031

# **INCOME STATEMENT**

All figures in EUR '000	2014A	2015A	2016A	2017E	2018E	2019E
Revenues	211,268	109,524	248,577	142,300	180,624	198,686
Change in inventories	19,078	116,096	1,591	20,000	0	0
Other operating income	3,603	7,707	9,075	4,838	5,419	5,961
Total aggregate output	233,949	233,327	259,244	167,138	186,043	204,647
Cost of goods sold	-170,496	-154,934	-96,951	-96,053	-106,568	-116,947
Gross profit	59,850	70,686	153,218	46,248	74,056	81,740
Personnel costs	-27,041	-29,254	-25,423	-25,100	-26,569	-27,271
Other operating expenses	-25,206	-29,504	-26,946	-27,000	-27,400	-28,000
EBITDA	11,206	19,635	109,924	18,986	25,505	32,429
Depreciation and amortisation	-8,526	-9,870	-12,884	-6,669	-8,866	-13,648
Operating income (EBIT)	2,680	9,765	97,040	12,317	16,639	18,781
Interest Expense	-14,934	-16,381	-17,331	-10,731	-10,035	-12,802
Interest Income	2,422	1,743	1,111	427	722	795
Income from participations & ass. companies	-5,334	-86	736	900	2,100	2,205
Pre-tax income (EBT)	-15,166	-4,959	81,556	2,913	9,426	8,979
Income taxes	-3,131	3,570	-14,476	-583	-1,885	-1,841
Minority interests	5,305	4,863	1,893	1,893	1,893	1,893
Net income / loss	-12,992	3,474	68,973	4,223	9,434	9,031
Diluted EPS (in €)	-0.21	0.05	0.88	0.06	0.12	0.11
Ratios						
Gross margin	28.3%	64.5%	61.6%	32.5%	41.0%	41.1%
EBITDA margin on revenues	5.3%	17.9%	44.2%	13.3%	14.1%	16.3%
EBIT margin on revenues	1.3%	8.9%	39.0%	8.7%	9.2%	9.5%
Net margin on revenues	-6.1%	3.2%	27.7%	3.0%	5.2%	4.5%
Tax rate	-20.6%	72.0%	17.7%	20.0%	20.0%	20.5%
Expenses as % of revenues						
Personnel costs	12.8%	26.7%	10.2%	17.6%	14.7%	13.7%
Depreciation and amortisation	4.0%	9.0%	5.2%	4.7%	4.9%	6.9%
Other operating expenses	11.9%	26.9%	10.8%	19.0%	15.2%	14.1%
Y-Y Growth						
Revenues	46.7%	-48.2%	127.0%	-42.8%	26.9%	10.0%
Operating income	-93.8%	264.4%	893.7%	-87.3%	35.1%	12.9%
Net income/ loss	n.m.	n.m.	1885.4%	-93.9%	123.4%	-4.3%

# **BALANCE SHEET**

All figures in EUR '000	2014A	2015A	2016A	2017E	2018E	2019E
Assets						
Current assets, total	265,935	236,033	289,776	219,258	200,694	221,807
Cash and cash equivalents	72,175	86,075	147,686	99,500	62,309	65,528
Short-term investments	0	0	0	0	0	0
Receivables	20,098	7,969	13,187	11,696	17,320	21,774
Inventories	152,389	121,177	112,946	92,105	105,108	118,549
Other current assets	20,075	19,332	15,203	15,203	15,203	15,203
Non-current assets, total	150,900	252,231	142,218	213,814	273,585	363,254
Property, plant & equipment	73,655	167,347	39,230	110,826	170,597	260,266
Goodwill & other intangibles	63,926	63,105	67,400	67,400	67,400	67,400
Long-term investments / ass. companies	0	0	0	0	0	0
Other assets	13,319	21,779	35,588	35,588	35,588	35,588
Total assets	416,835	488,264	431,994	433,072	474,279	585,062
Shareholders' equity & debt						
Current liabilities, total	95,034	84,858	73,922	75,732	82,460	205,324
Short-term debt	34,940	35,857	2,163	10,000	15,000	136,158
Accounts payable	21,476	16,852	15,692	15,789	17,518	19,224
Current provisions	3,908	6,291	3,968	3,968	3,968	3,968
Other current liabilities	34,710	25,858	52,099	45,974	45,974	45,974
Long-term liabilities, total	161,606	237,478	128,685	128,685	158,685	142,527
Long-term debt	141,207	215,975	115,860	115,860	145,860	129,702
Deferred revenue	0	0	0	0	0	0
Other liabilities	20,399	21,503	12,825	12,825	12,825	12,825
Minority interests	33	-3,102	-5,393	-7,286	-9,179	-11,072
Shareholders' equity	160,162	169,030	234,781	235,942	242,314	248,283
Share capital	71,975	76,555	76,556	76,556	76,556	76,556
Capital reserve	77,803	82,287	82,288	82,288	82,288	82,288
Other reserves	-296	-724	-997	-997	-997	-997
Treasury stock	0	0	0	0	0	0
Retained earnings	10,680	10,912	76,934	78,095	84,467	90,436
Total consolidated equity and debt	416,835	488,264	431,994	433,072	474,279	585,062
Ratios						
Current ratio (x)	2.80	2.78	3.92	2.90	2.43	1.08
Quick ratio (x)	1.19	1.35	2.39	1.68	1.16	0.50
Net cash	-103,972	-165,757	29,663	-26,360	-98,551	-200,332
Net gearing	64.9%	98.1%	-12.6%	11.2%	40.7%	80.7%
Book value per share (€)	2.60	2.20	2.99	3.00	3.08	3.16
Tangible book value per share (€)	1.62	1.41	2.18	2.19	2.28	2.35
Equity ratio (incl. minorities)	38.4%	34.0%	53.1%	52.8%	49.2%	40.5%
Return on equity (ROE)	-8.1%	2.1%	29.4%	1.8%	3.9%	3.6%
Days sales outstanding (DSO)	34.7	26.6	19.4	30.0	35.0	40.0
Days inventory outstanding (DIO)	326.2	285.5	425.2	350.0	360.0	370.0
Days payables outstanding (DPO)	46.0	39.7	59.1	60.0	60.0	60.0

# **CASH FLOW STATEMENT**

All figures in EUR '000	2014A	2015A	2016A	2017E	2018E	2019E
EBIT	2,681	9,765	97,040	12,317	16,639	18,781
Depreciation and amortisation	8,554	9,898	12,884	6,669	8,866	13,648
EBITDA	11,235	19,663	109,924	18,986	25,505	32,429
Changes in working capital	-28,886	-74,556	58,583	22,429	-16,899	-16,188
Other adjustments	-11,845	-47,582	-104,081	-9,986	-9,098	-11,643
Operating cash flow	-29,496	-102,475	64,426	31,429	-492	4,598
Investments in PP&E	-4,829	-2,903	-108,699	-78,265	-68,637	-103,317
Investments in intangibles	0	0	0	0	0	0
Free cash flow	-34,325	-105,378	-44,273	-46,836	-69,129	-98,719
Acquisitions & disposals, net	-81	23,258	106,876	0	0	0
Other investments	0	-255	-418	0	0	0
Cash flow from investing	-4,910	20,100	-2,241	-78,265	-68,637	-103,317
Debt financing, net	11,137	97,715	23,171	7,837	35,000	105,000
Equity financing, net	33,435	9,454	0	0	0	0
Dividends paid	-8,229	-3,062	-3,062	-9,187	-3,062	-3,062
Other financing	-2,302	-2,221	0	0	0	0
Cash flow from financing	34,041	101,886	20,109	-1,350	31,938	101,938
Forex and other changes in cash	-4,862	-5,611	-20,684	0	0	0
Net cash flows	-5,227	13,900	61,609	-48,186	-37,191	3,219
Cash, start of the year	77,402	72,175	86,076	147,686	99,500	62,309
Cash, end of the year	72,175	86,075	147,686	99,500	62,309	65,528
EBITDA/share (in €)	0.18	0.26	1.40	0.24	0.32	0.41
Operating cashflow/share (in €)	-0.48	-1.33	0.82	0.40	-0.01	0.06
Y-Y Growth						
Operating cash flow	n.m.	n.m.	n.m.	-51.2%	n.m.	n.m.
Free cash flow	n.m.	n.m.	n.m.	n.m.	n.m.	n.m.
EBITDA/share	-81.2%	40.4%	447.5%	-82.7%	34.3%	27.1%

Report No.:	Date of publication	Previous day closing price	Recommendation	Price target
Initial Report	31 March 2008	€2.38	Buy	€4.50
285	Ļ	Ļ	$\downarrow$	$\downarrow$
86	11 April 2017	€2.57	Buy	€3.40
87	10 May 2017	€2.66	Buy	€3.40
88	13 July 2017	€2.60	Buy	€3.50
89	Today	€2.62	Buy	€3.50

#### 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 2017 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 [WpHG], 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.

#### 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:

STRONG BUY: An expected favourable price trend of more than 50% combined with sizeable confidence in the quality and forecast security of management.

BUY: An expected favourable price trend of more than 25% percent.

ADD: An expected favourable price trend of between 0% and 25%.

REDUCE: An expected negative price trend of between 0% and -15%.

SELL: An expected negative price trend of more than -15%.

#### **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 sources of reliable. Comprehensive verification or of sitributing 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 kind 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, Canada and/or the United Kingdom (Great Britain).