Energiekontor (EKT GY) | Utilities/Renewables

December 19, 2023

Successful transaction again shows how much value is in EKT

After Energiekontor succeeded in selling a wind farm project in Scotland at the end of last week, the company currently expects consolidated EBT in the range of EUR 80 to 100 million for the 2023 financial year. This corresponds to an increase in Group EBT of around 30 to 60 per cent compared to the previous year (financial year 2022: EUR 62.9 million). The previous forecast was to increase the previous year's consolidated earnings before taxes by 10 to 20 per cent in the 2023 financial year. This positive news should certainly dispel doubts that may have arisen recently about the business model. Renewables plants are still in high demand and tend to remain a (valuable) scarce asset. The fact that interest rates are now falling again means an additional tailwind. Demand for renewables remains structurally strong, driven by Net Zero targets and now additionally by efforts to become less dependent on Russian energy. Governments are pulling out all the stops to accelerate the expansion process. We believe Energiekontor is particularly well positioned: Germany alone accounts for around 5.5 GW of Energiekontor's total development pipeline of 10 GW. The accelerated expansion of renewable energies is a very high priority also in Germany and is currently gaining momentum. In 2023, for example, the awards in the wind tenders, which essentially determine the number of installations in the following year, have doubled.

Valuation: We calculate a fair value of EUR 80 per share for Energiekontor's development business. This results from our pipeline valuation approach. For the generation and services business, we calculate a fair value of EUR 41 per share based on peer multiples.

Fundamentals (in EUR m) ¹	2020	2021	2022	2023e	2024e	2025e
Sales	147	157	188	242	223	224
EBITDA	65	80	97	132	126	145
EBIT	46	60	77	108	94	103
EPS adj. (EUR)	1.43	2.54	3.18	4.52	3.81	4.21
DPS (EUR)	0.80	0.90	1.00	1.05	1.10	1.10
BVPS (EUR)	4.59	5.76	8.84	8.90	11.33	11.33
Net Debt incl. Provisions	236	221	216	248	308	353
Ratios ¹	2020	2021	2022	2023e	2024e	2025e
EV/EBITDA	16.3	15.5	13.3	9.9	10.8	9.7
EV/EBIT	23.1	20.7	16.7	12.1	14.5	13.7
P/E adj.	40.6	28.0	24.2	16.7	19.8	18.0
Dividend yield (%)	1.4	1.3	1.3	1.4	1.5	1.5
EBITDA margin (%)	44.6	50.8	51.8	54.6	56.5	64.7
EBIT margin (%)	31.4	38.0	41.3	44.7	42.2	46.1
Net debt/EBITDA	3.6	2.8	2.2	1.9	2.4	2.4
PBV	12.6	12.3	8.7	8.5	6.7	6.7

¹Sources: Bloomberg, Metzler Research, ²Sources: ISS ESG, Metzler Research

Buy



Price*

EUR 75.70

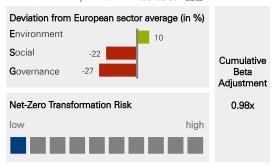
Price target

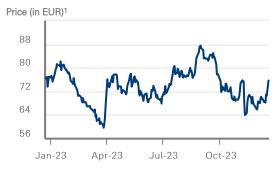
EUR 121.00 (unchanged)

* XETRA trading price at the close of the previous day unless stated otherwise in the Disclosures

Market Cap (EUR m) ¹	1,057
Enterprise Value (EUR m) ¹	1,305
Free Float (%)1	48.5

Metzler ESG analysis based on ISS ESG b data2





Performance (in %) ¹	1m	3m	12m
Share	6.9	-9.2	-7.0
Rel. to TecDax	0.5	-17.1	-17.5
Changes in estimates (in %) ¹	2023e	2024e	2025e
Changes in estimates (in %) ¹ Sales	2023e 15.8	2024e -5.2	2025e -9.9

Sponsored Research



Author: Guido Hoymann
Financial Analyst Equities
+49 69 2104-398
GHoymann@metzler.com

Key Data

Company profile

CEO: Peter Szabo CFO: Bremen Energiekontor develops, operates and owns wind and solar parks. The company has its roots in Germany, but is also expanding its activities in Great Britain, France and the USA.

Major shareholders

Dr. Bodo Wilkens (25.8%), Günter Lammers (25.7%)

figures	

2020	%	2021	%	2022	%	2023e	%	2024e	%	2025e	%
147	130.2	157	6.8	188	19.8	242	29.0	223	-7.8	224	0.3
65	68.3	80	21.6	97	22.2	132	35.8	126	-4.7	145	14.9
44.6	-26.9	50.8	13.9	51.8	2.0	54.6	5.3	56.5	3.4	64.7	14.6
46	182.2	60	29.4	77	30.0	108	39.8	94	-13.1	103	9.5
31.4	22.6	38.0	21.2	41.3	8.5	44.7	8.4	42.2	-5.7	46.1	9.2
-15	4.9	-17	-14.0	-17	-1.6	-18	-5.3	-18	0.0	-19	-5.6
31	n.m.	43	36.7	60	41.2	90	49.6	76	-15.7	84	10.4
11	n.m.	9	-19.3	18	110.4	27	47.5	23	-15.7	25	10.4
34.6	n.a.	20.4	n.a.	30.4	n.a.	30.0	n.a.	30.0	n.a.	30.0	n.a.
20	n.m.	36	77.1	45	23.1	63	41.8	53	-15.7	59	10.4
0	n.a.	0	n.a.	0	n.a.	0	n.a.	0	n.a.	0	n.a.
20	n.m.	36	77.1	45	23.1	63	41.8	53	-15.7	59	10.4
14	-0.3	14	0.0	14	0.0	14	0.0	14	0.0	14	0.0
1.43	n.m.	2.54	77.3	3.18	25.6	4.52	42.0	3.81	-15.7	4.21	10.4
0.80	100.0	0.90	12.5	1.00	11.1	1.05	5.0	1.10	4.8	1.10	0.0
1.4	n.a.	1.3	n.a.	1.3	n.a.	1.4	n.a.	1.5	n.a.	1.5	n.a.
2020	%	2021	%	2022	%	2023e	%	2024e	%	2025e	%
	-57.5		246.7		54.3		-9.1		-2.2	101	18.1
0	n.a.		n.a.	-43	n.a.	-20	n.a.	0	n.a.	0	n.a.
-12	-195.0	85	820.4	82	-3.1	125	51.7	130	4.0	130	0.0
-164.3	n.a.	23.5	n.a.	24.1	n.a.	19.1	n.a.	24.5	n.a.	32.1	n.a.
-118	-713.5	-48	59.3	56	216.7	-18	-132.0	-45	-149.5	-29	34.4
-14.3	n.a.	-4.8	n.a.	5.2	n.a.	-1.7	n.a.	-4.3	n.a.	-2.8	n.a.
6	-0.3	11	99.8	13	10.3	14	10.9	15	5.0	15	4.8
-124	n.m.	-34	72.2	44	226.8	-32	-173.2	-60	-86.4	-45	24.7
2020	%	2021	%	2022	%	2023e	%	2024e	%	2025e	%
449	15.1	561	25.0	633	12.8	652	2.9	690	5.8	690	0.0
0	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
66	16.6	82	25.4	124	50.4	124	0.5	158	27.2	158	0.0
14.6	n.a.	14.6	n.a.	19.5	n.a.	19.1	n.a.	22.9	n.a.	22.9	n.a.
236	10.9	221	-6.4	216	-2.0	248	14.8	308	24.0	353	14.6
0	n.a.	0	n.a.	0	n.a.	0	n.a.	0	n.a.	0	n.a.
359.7	n.a.	268.5	n.a.	174.9	n.a.	199.7	n.a.	194.7	n.a.	223.1	n.a.
3.6	n.a.	2.8	n.a.	2.2	n.a.	1.9	n.a.	2.4	n.a.	2.4	n.a.
	147 65 44.6 46 31.4 -15 31 11 34.6 20 0 20 14 1.43 0.80 1.4 2020 18 0 -12 -164.3 -118 -14.3 6 -124 2020 449 0 66 14.6 236 0 359.7	147 130.2 65 68.3 44.6 -26.9 46 182.2 31.4 22.6 -15 4.9 31 n.m. 11 n.m. 34.6 n.a. 20 n.m. 14 -0.3 1.43 n.m. 0.80 100.0 1.4 n.a. 2020 % 18 -57.5 0 n.a12 -195.0 -164.3 n.a118 -713.5 -14.3 n.a. 66 -0.3 -124 n.m. 2020 % 449 15.1 0 n.a. 66 16.6 14.6 n.a. 236 10.9 0 n.a. 359.7 n.a.	147 130.2 157 65 68.3 80 44.6 -26.9 50.8 46 182.2 60 31.4 22.6 38.0 -15 4.9 -17 31 n.m. 43 11 n.m. 9 34.6 n.a. 20.4 20 n.m. 36 0 n.a. 0 20 n.m. 36 14 -0.3 14 1.43 n.m. 2.54 0.80 100.0 0.90 1.4 n.a. 1.3 2020 % 2021 18 -57.5 62 0 n.a. 25 -12 -195.0 85 -164.3 n.a. 23.5 -148 -713.5 -48 -14.3 n.a. -4.8 -14.3 n.a. -4.8 -14.3 n.a. -4.8 -14.3 n.a. -34 -14.4 n.a. 1.3 11 -124 n.m. -34 2020 % 2021 449 15.1 561	147 130.2 157 6.8 65 68.3 80 21.6 44.6 -26.9 50.8 13.9 46 182.2 60 29.4 31.4 22.6 38.0 21.2 -15 4.9 -17 -14.0 31 n.m. 43 36.7 11 n.m. 9 -19.3 34.6 n.a. 20.4 n.a. 20 n.m. 36 77.1 0 n.a. 0 n.a. 20 n.m. 36 77.1 0 n.a. 0 n.a. 20 n.m. 36 77.1 14 -0.3 14 0.0 1.43 n.m. 2.54 77.3 0.80 100.0 0.90 12.5 1.4 n.a. 1.3 n.a. 2020 % 2021 % 18 -57.5 6	147 130.2 157 6.8 188 65 68.3 80 21.6 97 44.6 -26.9 50.8 13.9 51.8 46 182.2 60 29.4 77 31.4 22.6 38.0 21.2 41.3 -15 4.9 -17 -14.0 -17 31 n.m. 43 36.7 60 11 n.m. 9 -19.3 18 34.6 n.a. 20.4 n.a. 30.4 20 n.m. 36 77.1 45 0 n.a. 0 n.a. 0 20 n.m. 36 77.1 45 14 -0.3 14 0.0 14 1.43 n.m. 2.54 77.3 3.18 0.80 100.0 0.90 12.5 1.00 1.4 n.a. 1.3 n.a. 1.3 2020 % 2021 % 2022 18 -57.5 62 <td< td=""><td>147 130.2 157 6.8 188 19.8 65 68.3 80 21.6 97 22.2 44.6 -26.9 50.8 13.9 51.8 2.0 46 182.2 60 29.4 77 30.0 31.4 22.6 38.0 21.2 41.3 8.5 -15 4.9 -17 -14.0 -17 -1.6 31 n.m. 43 36.7 60 41.2 11 n.m. 9 -19.3 18 110.4 34.6 n.a. 20.4 n.a. 30.4 n.a. 20 n.m. 36 77.1 45 23.1 0 n.a. 0 n.a. 0 n.a. 20 n.m. 36 77.1 45 23.1 14 -0.3 14 0.0 14 0.0 1.43 n.m. 2.54 77.3 3.18 25.6 0.80 100.0 0.90 12.5 1.00 11.1 <t< td=""><td>147 130.2 157 6.8 188 19.8 242 65 68.3 80 21.6 97 22.2 132 44.6 -26.9 50.8 13.9 51.8 2.0 54.6 46 182.2 60 29.4 77 30.0 108 31.4 22.6 38.0 21.2 41.3 8.5 44.7 -15 4.9 -17 -14.0 -17 -1.6 -18 31 n.m. 43 36.7 60 41.2 90 11 n.m. 9 -19.3 18 110.4 27 34.6 n.a. 20.4 n.a. 30.4 n.a. 30.0 20 n.m. 36 77.1 45 23.1 63 0 n.a. 0 n.a. 0 n.a. 0 14 -0.3 14 0.0 14 0.0 14 1.4</td><td>147 130.2 157 6.8 188 19.8 242 29.0 65 68.3 80 21.6 97 22.2 132 35.8 44.6 -26.9 50.8 13.9 51.8 2.0 54.6 5.3 46 182.2 60 29.4 77 30.0 108 39.8 31.4 22.6 38.0 21.2 41.3 8.5 44.7 8.4 -15 4.9 -17 -14.0 -17 -1.6 -18 -5.3 31 n.m. 43 36.7 60 41.2 90 49.6 11 n.m. 9 -19.3 18 110.4 27 47.5 34.6 n.a. 20.4 n.a. 30.4 n.a. 30.0 n.a. 20 n.m. 36 77.1 45 23.1 63 41.8 0 n.a. 0 n.a. 0 n.a. <</td><td>147 130.2 157 6.8 188 19.8 242 29.0 223 65 68.3 80 21.6 97 22.2 132 35.8 126 44.6 -26.9 50.8 13.9 51.8 2.0 54.6 5.3 56.5 46 182.2 60 29.4 77 30.0 108 39.8 94 31.4 22.6 38.0 21.2 41.3 8.5 44.7 8.4 42.2 -15 4.9 -17 -14.0 -17 -1.6 -18 -5.3 -18 31 n.m. 43 36.7 60 41.2 90 49.6 76 11 n.m. 9 -19.3 18 110.4 27 47.5 23 34.6 n.a. 20.4 n.a. 30.4 n.a. 30.0 n.a. 30.0 20 n.m. 36 77.1 45 23.1</td><td>147 130.2 157 6.8 188 19.8 242 29.0 223 -7.8 65 68.3 80 21.6 97 22.2 132 35.8 126 -4.7 44.6 -26.9 50.8 13.9 51.8 2.0 54.6 5.3 56.5 3.4 46 182.2 60 29.4 77 30.0 108 39.8 94 -13.1 31.4 22.6 38.0 21.2 41.3 8.5 44.7 8.4 42.2 -5.7 -15 4.9 -17 -14.0 -17 -1.6 -18 -5.3 -18 0.0 31 n.m. 43 36.7 60 41.2 90 49.6 76 -15.7 11 n.m. 9 -19.3 18 110.4 27 47.5 23 -15.7 34.6 n.a. 30.0 n.a. 30 n.a. 30 n.a.</td></t<></td></td<> <td>147 130.2 157 6.8 188 19.8 242 29.0 223 -7.8 224 65 68.3 80 21.6 97 22.2 132 35.8 126 -4.7 145 44.6 -26.9 50.8 13.9 51.8 2.0 54.6 5.3 56.5 3.4 64.7 46 182.2 60 29.4 77 30.0 108 39.8 94 -13.1 103 31.4 22.6 38.0 21.2 41.3 8.5 44.7 8.4 42.2 -5.7 46.1 -15 4.9 -17 -14.0 -17 -1.6 -18 -5.3 -18 0.0 -15.7 84 11 n.m. 43 36.7 60 41.2 90 49.6 76 -15.7 84 11 n.m. 36 77.1 45 23.1 63 41.8 53 -15.7 59</td>	147 130.2 157 6.8 188 19.8 65 68.3 80 21.6 97 22.2 44.6 -26.9 50.8 13.9 51.8 2.0 46 182.2 60 29.4 77 30.0 31.4 22.6 38.0 21.2 41.3 8.5 -15 4.9 -17 -14.0 -17 -1.6 31 n.m. 43 36.7 60 41.2 11 n.m. 9 -19.3 18 110.4 34.6 n.a. 20.4 n.a. 30.4 n.a. 20 n.m. 36 77.1 45 23.1 0 n.a. 0 n.a. 0 n.a. 20 n.m. 36 77.1 45 23.1 14 -0.3 14 0.0 14 0.0 1.43 n.m. 2.54 77.3 3.18 25.6 0.80 100.0 0.90 12.5 1.00 11.1 <t< td=""><td>147 130.2 157 6.8 188 19.8 242 65 68.3 80 21.6 97 22.2 132 44.6 -26.9 50.8 13.9 51.8 2.0 54.6 46 182.2 60 29.4 77 30.0 108 31.4 22.6 38.0 21.2 41.3 8.5 44.7 -15 4.9 -17 -14.0 -17 -1.6 -18 31 n.m. 43 36.7 60 41.2 90 11 n.m. 9 -19.3 18 110.4 27 34.6 n.a. 20.4 n.a. 30.4 n.a. 30.0 20 n.m. 36 77.1 45 23.1 63 0 n.a. 0 n.a. 0 n.a. 0 14 -0.3 14 0.0 14 0.0 14 1.4</td><td>147 130.2 157 6.8 188 19.8 242 29.0 65 68.3 80 21.6 97 22.2 132 35.8 44.6 -26.9 50.8 13.9 51.8 2.0 54.6 5.3 46 182.2 60 29.4 77 30.0 108 39.8 31.4 22.6 38.0 21.2 41.3 8.5 44.7 8.4 -15 4.9 -17 -14.0 -17 -1.6 -18 -5.3 31 n.m. 43 36.7 60 41.2 90 49.6 11 n.m. 9 -19.3 18 110.4 27 47.5 34.6 n.a. 20.4 n.a. 30.4 n.a. 30.0 n.a. 20 n.m. 36 77.1 45 23.1 63 41.8 0 n.a. 0 n.a. 0 n.a. <</td><td>147 130.2 157 6.8 188 19.8 242 29.0 223 65 68.3 80 21.6 97 22.2 132 35.8 126 44.6 -26.9 50.8 13.9 51.8 2.0 54.6 5.3 56.5 46 182.2 60 29.4 77 30.0 108 39.8 94 31.4 22.6 38.0 21.2 41.3 8.5 44.7 8.4 42.2 -15 4.9 -17 -14.0 -17 -1.6 -18 -5.3 -18 31 n.m. 43 36.7 60 41.2 90 49.6 76 11 n.m. 9 -19.3 18 110.4 27 47.5 23 34.6 n.a. 20.4 n.a. 30.4 n.a. 30.0 n.a. 30.0 20 n.m. 36 77.1 45 23.1</td><td>147 130.2 157 6.8 188 19.8 242 29.0 223 -7.8 65 68.3 80 21.6 97 22.2 132 35.8 126 -4.7 44.6 -26.9 50.8 13.9 51.8 2.0 54.6 5.3 56.5 3.4 46 182.2 60 29.4 77 30.0 108 39.8 94 -13.1 31.4 22.6 38.0 21.2 41.3 8.5 44.7 8.4 42.2 -5.7 -15 4.9 -17 -14.0 -17 -1.6 -18 -5.3 -18 0.0 31 n.m. 43 36.7 60 41.2 90 49.6 76 -15.7 11 n.m. 9 -19.3 18 110.4 27 47.5 23 -15.7 34.6 n.a. 30.0 n.a. 30 n.a. 30 n.a.</td></t<>	147 130.2 157 6.8 188 19.8 242 65 68.3 80 21.6 97 22.2 132 44.6 -26.9 50.8 13.9 51.8 2.0 54.6 46 182.2 60 29.4 77 30.0 108 31.4 22.6 38.0 21.2 41.3 8.5 44.7 -15 4.9 -17 -14.0 -17 -1.6 -18 31 n.m. 43 36.7 60 41.2 90 11 n.m. 9 -19.3 18 110.4 27 34.6 n.a. 20.4 n.a. 30.4 n.a. 30.0 20 n.m. 36 77.1 45 23.1 63 0 n.a. 0 n.a. 0 n.a. 0 14 -0.3 14 0.0 14 0.0 14 1.4	147 130.2 157 6.8 188 19.8 242 29.0 65 68.3 80 21.6 97 22.2 132 35.8 44.6 -26.9 50.8 13.9 51.8 2.0 54.6 5.3 46 182.2 60 29.4 77 30.0 108 39.8 31.4 22.6 38.0 21.2 41.3 8.5 44.7 8.4 -15 4.9 -17 -14.0 -17 -1.6 -18 -5.3 31 n.m. 43 36.7 60 41.2 90 49.6 11 n.m. 9 -19.3 18 110.4 27 47.5 34.6 n.a. 20.4 n.a. 30.4 n.a. 30.0 n.a. 20 n.m. 36 77.1 45 23.1 63 41.8 0 n.a. 0 n.a. 0 n.a. <	147 130.2 157 6.8 188 19.8 242 29.0 223 65 68.3 80 21.6 97 22.2 132 35.8 126 44.6 -26.9 50.8 13.9 51.8 2.0 54.6 5.3 56.5 46 182.2 60 29.4 77 30.0 108 39.8 94 31.4 22.6 38.0 21.2 41.3 8.5 44.7 8.4 42.2 -15 4.9 -17 -14.0 -17 -1.6 -18 -5.3 -18 31 n.m. 43 36.7 60 41.2 90 49.6 76 11 n.m. 9 -19.3 18 110.4 27 47.5 23 34.6 n.a. 20.4 n.a. 30.4 n.a. 30.0 n.a. 30.0 20 n.m. 36 77.1 45 23.1	147 130.2 157 6.8 188 19.8 242 29.0 223 -7.8 65 68.3 80 21.6 97 22.2 132 35.8 126 -4.7 44.6 -26.9 50.8 13.9 51.8 2.0 54.6 5.3 56.5 3.4 46 182.2 60 29.4 77 30.0 108 39.8 94 -13.1 31.4 22.6 38.0 21.2 41.3 8.5 44.7 8.4 42.2 -5.7 -15 4.9 -17 -14.0 -17 -1.6 -18 -5.3 -18 0.0 31 n.m. 43 36.7 60 41.2 90 49.6 76 -15.7 11 n.m. 9 -19.3 18 110.4 27 47.5 23 -15.7 34.6 n.a. 30.0 n.a. 30 n.a. 30 n.a.	147 130.2 157 6.8 188 19.8 242 29.0 223 -7.8 224 65 68.3 80 21.6 97 22.2 132 35.8 126 -4.7 145 44.6 -26.9 50.8 13.9 51.8 2.0 54.6 5.3 56.5 3.4 64.7 46 182.2 60 29.4 77 30.0 108 39.8 94 -13.1 103 31.4 22.6 38.0 21.2 41.3 8.5 44.7 8.4 42.2 -5.7 46.1 -15 4.9 -17 -14.0 -17 -1.6 -18 -5.3 -18 0.0 -15.7 84 11 n.m. 43 36.7 60 41.2 90 49.6 76 -15.7 84 11 n.m. 36 77.1 45 23.1 63 41.8 53 -15.7 59

Structure

Sales by segment 2022



Sources: Bloomberg, Metzler Research

ESG discussion

One of the key sustainability issues is to ensure the safety of employees, contractors and business partners involved in the construction, operation and maintenance of its power plants. Almost all of Energiekontor's operations are located in countries such as Germany and the UK where high legal health and safety standards are in place. When planning new wind or solar energy projects, Energiekontor is committed to make use of brownfield sites instead of greenfield sites and refrains from site selection in areas with high biodiversity value. According to ISS, Energiekontor's governance structure does not include a clear separation of managerial and supervisory functions.

Disclosures

Recommendation history

Recommendations for each financial instrument or issuer - mentioned in this document - published by Metzler in the past twelve months

Date of dissemi- nation	Metzler recor Previous	mmendation * Current	Current price **	Price target * Author ***
Issuer/Financial	Instrument (IS	IN): Energiekonto	r (DE0005313506)	
14.11.2023	Buy	Buy	64.70 EUR	121.00 EUR Hoymann, Guido
14.08.2023	Buy	Buy	77.20 EUR	121.00 EUR Hoymann, Guido
22.05.2023	Buy	Buy	76.00 EUR	121.00 EUR Hoymann, Guido
03.04.2023	Buv	Buv	66.40 EUR	121.00 EUR Hovmann, Guido

- * Effective until the price target and/or investment recommendation is updated (FI/FX recommendations are valid solely at the time of publication)
- ** XETRA trading price at the close of the previous day unless stated otherwise herein
- *** All authors are financial analysts

Energiekontor

13. Metzler, a company affiliated with Metzler and/or a person that has worked on compiling this report has reached an agreement with the issuer relating to the production of investment recommendations.

Compiled: December 19, 2023 07:57 AM CET Initial release: December 19, 2023 07:57 AM CET



Disclaimer

This document has been prepared by B. Metzler seel. Sohn & Co. AG (Metzler) and is addressed exclusively to eligible counterparties and professional clients. It is thus not suitable for retail clients.

This document is based on information which is generally available and which Metzler believes to be fundamentally reliable. Metzler has not verified the accuracy or completeness of the information, however, and thus provides no warranty or representation in respect of the accuracy or completeness of the information, opinions, estimates, recommendations and forecasts contained in this document. Neither Metzler nor any of its shareholders or employees are liable for damage or any other disadvantage suffered due to inaccurate or incomplete information, opinions, estimates, recommendations or forecasts as a result of the distribution or use of or in connection to this document.

This document does not constitute or form part of any offer to buy or solicitation of any offer to buy securities, other financial instruments or other investment instruments. Neither does it take account of the particular investment objectives, financial situation or needs of individual recipients nor does it constitute personal investment advice. Metzler does not act as investment advisor or portfolio manager in preparing and publishing this document. Recipients must make their own investment decisions in accordance with their specific financial situation and investment objectives, based on independent processes and analyses, taking sales or other prospectuses, information memoranda and other investor information into account, and consult with an independent financial advisor where necessary. Recipients should note that any information regarding past performance should not be relied upon as an indication of future performance and should therefore not form the basis of any decision whether or not to invest in any financial instruments.

The information, opinions, estimates, recommendations and forecasts contained in this document reflect the personal views of the author at the time of publication on the financial instruments or issuers that form the subject of this document and do not necessarily reflect the opinions of Metzler, the issuer or third parties. They may also be subject to change on account of future events and developments. Metzler has no obligation to amend, supplement or update this document or to otherwise notify recipients in the event that any information, opinions, estimates, recommendations or forecasts stated herein should change or subsequently become inaccurate, incomplete or misleading. The model calculations contained in this document, if any, are examples showing the possible performance and are based on various assumptions (e.g. regarding earnings and volatility). The actual performance may be higher or lower, depending on market trends and on the correctness of assumptions underlying the model calculations. Accordingly, actual performance cannot be guaranteed, warranted or assured.

Recipients should assume that (a) Metzler is entitled to acquire orders for investment banking, securities or other services from or with companies which form the subject of research publications and that (b) analysts who were involved in preparing research publications may, within the scope of regulatory laws, be indirectly involved in the acquisition of such orders.

Metzler and its employees may hold positions in securities of the companies analysed or in other investment objects or may conduct transactions with such securities or investment objects.

This document is provided for information purposes only and may not be copied, duplicated, forwarded to third parties or otherwise published, in whole or in part, without Metzler's written consent. Metzler reserves all copyrights and rights of use, including those relating to electronic media. Insofar as Metzler provides hyperlinks to websites of the companies cited in research publications, this does not mean that Metzler confirms, recommends or warrants any data contained on the linked sites or data which can be accessed from such sites. Metzler accepts no liability for links or data, nor for any consequences which may arise as a result of following the links and/or using the data.

This document is subject to the laws of the Federal Republic of Germany. Venue of jurisdiction for any disputes shall be Frankfurt am Main, Germany.

By accepting this document the recipient declares his/her agreement with the above provisions.

Information in accordance with Regulation (EU) No. 596/2014, Delegated Regulation (EU) No. 2016/958 and section 85 (1) of the German Securities Trading Act (Wertpapier-handelsgesetz)

Persons responsible for this document

The company responsible for preparing this document is B. Metzler seel. Sohn & Co. AG, Untermainanlage 1, 60329 Frankfurt am Main, Germany, which is subject to supervision by the German Federal Financial Supervisory Authority (*Bundesanstalt für Finanzdienstleistungsaufsicht*; BaFin), Marie-Curie-Straße 24–28, 60439 Frankfurt/Main, Germany, and by the European Central Bank (ECB), Sonnemannstraße 20, 60314 Frankfurt/Main, Germany.

Key information sources

The sources of information referred to when preparing research publications include publications by national and international media, the European Central Bank and other public authorities, information services (such as Reuters and Bloomberg), the financial press, published statistics, information published by rating agencies, annual reports and other information provided by the issuers.

Valuation criteria and methods

Valuations are based on standard and acknowledged methods of fundamental and technical analysis (e.g. DCF model, peer-group analysis, sum-of-the-parts model, relative-value analysis). The valuation models are affected by macro-economic values such as interest rates, exchange rates, commodities prices and economic performance, as well as by market sentiments. Detailed information on the valuation principles and methods used by Metzler and the assumptions on which they are based is available at: www.metzler.com/disclaimer-capital-markets-en.

Sensitivity of valuation parameters; risks

The figures on which the company valuations are based are date-specific estimates and thus carry inherent risks. They may be adjusted at any time without prior notice.



Irrespective of the valuation principles and methods used and the assumptions on which they are based, there is always a risk that a particular price target is not achieved or that the assumptions and forecasts prove inaccurate. This can, for instance, be the result of unexpected changes in demand, management, technology, economic or political developments, interest rates, costs, the competitive situation, the legal situation and other factors. Investments in foreign markets and instruments are subject to additional risks, as a result of changes in exchange rates or in the economic, political or social situation, for instance. This outline of risks makes no claim to be exhaustive.

<u>Definition of categories for investment recommendations</u>

The categories for investment recommendations in research publications by Metzler have the following meanings:

Shares:

BUY The price of the analysed financial instrument is expected to rise in the next 12 months.

HOLD The price of the analysed financial instrument is expected to largely remain stable in the next 12 months.

SELL The price of the analysed financial instrument is expected to fall in the next 12 months.

Bonds:

BUY The analysed financial instrument is expected to perform better than similar financial instruments.

HOLD The analysed financial instrument is not expected to perform significantly better or worse than similar financial instruments.

SELL The analysed financial instrument is expected to perform worse than similar financial instruments.

Summary of investment recommendations

A list of all investment recommendations for each financial instrument or issuer published by Metzler in the past twelve months can be found at www.metzler.com/disclaimer-capital-markets-en.

The quarterly quotation of the number of all investment recommendations given as "buy", "hold", "sell" or similar for the past 12 months as a proportion of the total number of investment recommendations made by Metzler and the quotation of the proportion of these categories relating to issuers to whom Metzler has provided services within the meaning of Annex I sections A and B of Regulation 2014/65/EU within the past 12 months can be accessed and downloaded at www.metzler.com/disclaimer-capital-markets-en-

Planned updates of this document

This document reflects the opinion of the respective author at the time of its preparation. Any changes of factors can cause information, opinions, estimates, recommendations and forecasts contained in this document to cease to be accurate. No decision has as yet been taken as to whether, and if so when, this document will be updated. If an investment recommendation is updated, the updated investment recommendation replaces the previous investment recommendation upon publication.

Compliance arrangements; conflicts of interest

All analysts are bound by Metzler's internal compliance regulations which ensure that the research publications are prepared in accordance with statutory and regulatory provisions. The analysts are classified as working in a confidential sector and are thus required to observe the resulting statutory and regulatory provisions. This is monitored on a regular basis by the Compliance department and external auditors. The Compliance department ensures that potential conflicts of interest do not affect the original result of the analysis. Metzler has a binding Conflicts of Interest Policy in place which ensures that relevant conflicts of interest within Metzler, the Metzler Group, the analysts and staff of Metzler's Capital Markets division and persons associated with them are avoided or, if they cannot be avoided, are appropriately identified, managed, disclosed and monitored. A detailed description of Metzler's policy for avoiding conflicts of interest is available at www.metzler.com/disclaimer-capital-markets-en.

Details of the conflicts of interests to be disclosed under regulatory requirements are published at www.metzler.com/disclosures-en.

Remuneration

The remuneration of the Metzler staff members and other persons involved in preparing this document is in no way, either in whole or in any variable part, directly or materially linked to transactions in securities services or other transactions processed by Metzler.

Prices

All prices for financial instruments stated in this document are, unless otherwise stated, closing prices for the trading day preceding the respective stated publication date on the market which we regard as the most liquid market for the respective financial instrument.

Scope of application

This document was prepared in the Federal Republic of Germany in line with the legal provisions valid there. It may therefore be possible that this document does not comply with all provisions relating to the preparation of such documents in other countries.



Metzler Capital Markets

B. Metzler seel. Sohn & Co. AG Untermainanlage 1 60329 Frankfurt/Main, Germany Phone +49 69 2104-extension Fax +49 69 2104-679 www.metzler.com Mario Mattera

Head of Capital Markets

Research Fax +49 69 283159	Pascal Spano	Head of Research	4365
	Guido Hoymann	Head of Equity Research Transport, Utilities/Renewables	398
	Stephan Bauer	Industrial Technology	4363
	Felix Dennl	E-Commerce, Retail	239
	Oliver Frey	Software, Technology, Telecommunications	4360
	Alexander Neuberger	Industrial Technology, Small/Mid Caps	4366
	Jochen Schmitt	Financials, Real Estate	4359
	Thomas Schulte-Vor- wick	Basic Resources	234
	Pál Skirta	Mobility	525
	Uwe Hohmann	Equity Strategy	366
	Eugen Keller	Head of FI/FX Research	329
	Juliane Rack	FI/FX Strategy	1748
	Sebastian Sachs	FI/FX Strategy	526
	Stoyan Toshev	FI/FX Strategy	528
Equities	Mustafa Ansary	Head of Equities	351
		Head of Equity Sales	
Sales	Eugenia Buchmüller		238
	Hugues Jaouen		4173
	Alexander Kravkov		4172
	Gerard O'Doherty		4189
	Jasmina Schul		1766
	Markus Tozman		4174
Trading	Sven Knauer	Head of Equity Trading	245
	Elyaz Dust		248
	Kirsten Fleer		246
	Stephan Schmelzle		247
	Thomas Seibert		228
Corporate Solutions	Dr. Karsten Iltgen	Head of Corporate Solutions	510
	Stephan Averdung		514
	Thomas Burkart		511



	Christoph Hirth Adrian Takacs		513 512
Fixed Income (FI)	Sebastian Luther	Head of Fixed Income	688
FI Sales	Minush Nori Silke Amelung Claudia Ruiu Simon Tabath	Head of Fixed Income Sales	689 289 683 280
FI Trading/ALM	Burkhard Brod Bettina Koch Susanne Kraus Christian Bernhard Dirk Lagler	Head of ALM Head of Fixed Income Trading	659 291 658 266 685
Foreign Exchange (FX)	Özgur Atasever	Head of Foreign Exchange	281
FX Sales	Tobias Martin Steffen Völker	Head of FX Sales & Trading	614 293
FX Trading	Rainer Jäger Andreas Zellmann		276 610
Currency Management	Dominik Müller	Head of Currency Management	274
CM Advisory	Achim Walde Jens Rotterdam	Head of Advisory	275 282
CM Operations	Simon Wesch Tessa Feller Florian Konz	Head of Operations	350 1696 1773
	Sergii Piskun	Senior Quantitative Analyst	237