

MVV Energie – Energising the Future

Fact book

1st Half of 2011/12 financial year

15 May 2012

www.mvv-investor.de



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Key financial data for the 1st half of 2011/12 financial year



Key figures of the MVV Energie Group for the 1st half of 2011/12 financial year – Adjusted

Earnings performance in Euro million

	2011/12 (1.10-31.3.)	2010/11 (1.10-31.3.)	% change
Sales excluding electricity and energy tax ¹	2,090	1,901	+10
Adjusted EBITDA 1, 2	260	280	-7
Adjusted EBIT ³	180	204	-12
Adjusted EBT ^{3, 4}	148	173	-14
Adjusted net surplus for period 3, 4	101	117	-14
Adjusted net surplus for period after minority interests 3, 4	87	98	-11
Adjusted earnings per share 3, 4 in Euro	1.32	1.49	-11
Free cash flow ⁵	-237	26	-

¹ previous year's figure adjusted

² excluding non-operating IAS 39 derivative measurement items and including interest income from finance leases

³ excluding non-operating IAS 39 derivative measurement items, including interest income from finance leases and excluding restructuring expenses in previous year

⁴ impact of the expiry of the Kiel put option

⁵ cash flow from operating activities less investments in intangible assets, property, plant and equipment and investment property

Sales by reporting segments in the 1st half of 2011/12 financial year

Sales in Euro million

	2011/12 (1.10-31.3.)	2010/11 (1.10-31.3.) ¹	% change
Generation and Infrastructure	163	163	0
Trading and Portfolio Management	519	347	+50
Sales and Services	1,164	1,161	0
Strategic Investments	242	228	+6
Other Activities	2	2	0
Total	2,090	<u>1,901</u>	+10

¹ previous year's figure adjusted (amended presentation of building cost subsidies)

Adjusted EBIT by reporting segments in the1st half of 2011/12 financial year

Adjusted EBIT in Euro million

	2011/12 (1.10-31.3.)	2010/11 (1.10-31.3.) ¹	% change
Generation and Infrastructure	83	82	+1
Trading and Portfolio Management	7	29	-76
Sales and Services	47	48	-2
Strategic Investments	38	41	-7
Other Activities	5	4	+25
Total	180_	204_	-12

¹ starting in 2011/12 financial year: overhead expenses allocated to reporting segments in line with causation on a capital employed basis (previous year's figure adjusted)

Reconciliation of EBIT (income statement) with adjusted EBIT in the 1st half of 2011/12 financial year

in Euro million

	2011/12 (1.10-31.3.)	2010/11 (1.10-31.3.)	+/- change
EBIT as reported in income statement	149	227	-78
+ Derivative measurement items under IAS 39	29	-56	+85
+ Restructuring expenses	-	31	-31
+ Interest income from finance leases	2	2	0
= Adjusted EBIT	<u> 180</u>	204	-24

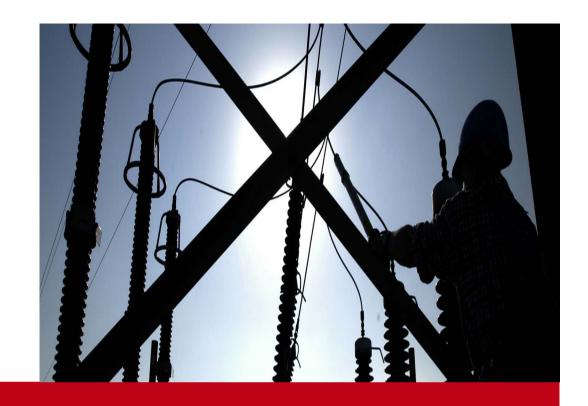
Key factors in the 1st half of 2011/12 financial year affecting year-on-year adjusted EBIT performance

Positive factors

- ► Improved margins in nationwide electricity and gas sales to industrial and commercial customers
- Expansion of wind power business

Negative factors

- Weather-related reduction in district heating and gas turnover
- Extended downtime at joint power plant (GKK) in Kiel due to turbine damage
- ► Lower clean dark spread (CDS) due to falling electricity prices on the wholesale market and lower coal prices. However, electricity prices fell more markedly than coal prices.



Key financial data for the 2010/11 financial year



We achieved all our targets in the 2010/11 financial year

► Sales target (excluding electricity and natural gas taxes) for 2010/11 financial year at around previous year's level (Euro 3.4 billion in 2009/10 financial year). With actual sales of Euro 3.6 billion this target has been exceeded.



► Adjusted EBIT target at around previous year's level (Euro 243 million in 2009/10 financial year). With actual adjusted EBIT of Euro 242 million this target has been achieved.



► Payment of a constant dividend of Euro 0.90 per share for the 2010/11 financial year



Key figures of the MVV Energie Group for the 2010/11 financial year – Adjusted

Earnings performance in Euro million

	2010/11 (1.10-30.9.)	2009/10 (1.10-30.9.)	% change
Sales excluding electricity and energy tax	3,590	3,359	+7
Adjusted EBITDA ¹	394	406	-3
Adjusted EBIT ²	242	243	0
Adjusted EBT ^{2, 3}	179	165	+8
Adjusted net surplus for period ^{2, 3}	125	105	+19
Adjusted net surplus for period after minority interests 2, 3	108	95	+14
Adjusted earnings per share 2, 3 in Euro	1.63	1.44	+13
Free cash flow 4	163	154	+6

¹ excluding non-operating IAS 39 derivative measurement items and including interest income from finance leases (previous year's figure adjusted)

4 cash flow from operating activities less investments in intangible assets, property, plant and equipment and investment property

MVV Energie

² excluding non-operating IAS 39 derivative measurement items and excluding restructuring expenses and including interest income from finance leases (previous year's figure adjusted)

³ impact of the expiry of the Kiel put option

Sales by reporting segments in the 2010/11 financial year

Sales in Euro million

	2010/11 (1.10-30.9.)	2009/10 (1.10-30.9.) ¹ pro forma	
Generation and Infrastructure	320	329	
Trading and Portfolio Management	800	684	
Sales and Services	2,095	1,984	
Strategic Investments	371	356	
Other Activities	4	6	
Total	3,590	3,359	

¹ previous year's figures calculated as pro forma figures

Adjusted EBIT by reporting segments in the 2010/11 financial year

Adjusted EBIT in Euro million

	2010/11 (1.10-30.9.)	2009/10 (1.10-30.9.) ¹ pro forma	
Generation and Infrastructure	123	122	
Trading and Portfolio Management	26	40	
Sales and Services	51	39	
Strategic Investments	37	37	
Other Activities	5	5	
Total	242_	<u>243</u>	

¹ previous year's figures calculated as pro forma figures

Sales volumes and combustible waste delivered in the 2010/11 financial year

Sales volumes

	2010/11 (1.10-30.9.)	2009/10 (1.10-30.9.)	% change
Electricity in kWh million	26,093	23,891	+9
of which Generation and Infrastructure	155	334	-54
of which Trading and Portfolio Management	12,855	10,771	+19
of which Sales and Services	11,678	11,510	+1
of which Strategic Investments	1,405	1,276	+10
District heating in kWh million	7,288	7,586	-4
Gas in kWh million	10,888	11,775	-8
of which Trading and Portfolio Management	1,700	2,313	-27
of which Sales and Services	7,759	7,356	+5
of which Strategic Investments	1,429	2,106	-32
Water in m ³ million	53.7	54.2	-1
Combustible waste delivered in tonnes 000s	1,835	1,762	+4

Sales and adjusted EBIT by reporting segments – well-balanced business portfolio

Share of external sales in 2010/11 FY

Share of adjusted EBIT in 2010/11 FY



Key figures (2010/11 FY pursuant to IFRS)

Sales¹: Euro 3.590 million
Adjusted EBITDA: Euro 394 million
Adjusted EBIT: Euro242 million
Adjusted annual net surplus: Euro125 million

Adjusted equity ratio: 39.5%

Free cash flow: Euro 163 million

Number of employees: 5,923

1 excluding electricity and natural gas taxes 2 closing price on 14.5.2012: Euro 22.60

Key valuation parameters

Enterprise value ² / sales:	0.7
Enterprise value ² / adjusted EBITDA:	6.5
Enterprise value ² / adjusted EBIT:	10.6
Price ² / book value ratio:	1.3
Price ² / earnings ratio:	13.9
Adjusted earnings per share:	Euro 1.63
Dividend per share:	Euro 0.90
Dividend yield:	4.0%



Reconciliation of EBIT (income statement) with adjusted EBIT in the 2010/11 financial year

in Euro million

	2010/11 (1.10-30.9.)	2009/10 (1.10-30.9.)	+/- change
EBIT as reported in income statement	253	308	-55
+ Derivative measurement items under IAS 39	-46	-69	+23
+ Restructuring expenses	31	-	+31
+ Interest income from finance leases	4	4	0
= Adjusted EBIT	242	243_	-1

Key factors affecting year-on-year adjusted EBIT performance

Positive one-off factors

- Year-on-year comparison benefits from high write-downs in ERS business in previous year
- Improvement in generation and environmental energy
- Gas optimisation and improved trading results
- ► Improvements at Czech subgroup

Negative one-off factors

- ► Lower clean dark spreads and higher performance prices
- Weather-related reduction in district heating turnover





Transformation of the energy supply system in Germany



Long-term aims of Federal Government's Energy Concept from autumn 2010 unchanged despite nuclear energy exit

	2020	2050
Primary energy consumption (base: 2008)	-20%	- 50%
Building heating/primary energy consumption	-20%	- 80%
Electricity consumption (base: 2008)	-10%	-25%
% renewables in end energy consumption	18%	60%
% renewables in electricity consumption	35%	80%

Gradual nuclear energy exit by 2022

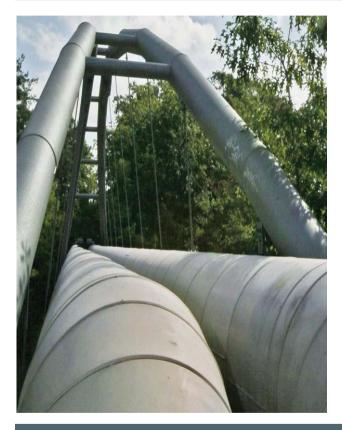
► Extensive new legislation (including amendments to Atomic Energy, Renewable Energies and Cogeneration Acts)

Fundamental transformation in entire energy supply system



- Transformation requires new market design, new price systems, new technologies
- Transformation will require all-round "management"

Key challenges involved in the new energy supply system



- ► Increased **flexibility**
- ► Market integration of renewables energies
- ► Energy efficiency
- Grid expansion & restructuring



- Transformation of the energy supply system involves far more than just switching off nuclear power plants
- Transformation means promoting energy efficiency and expanding renewable energies while simultaneously safeguarding system stability

Which key factors will be relevant in future?

Increase flexibility of existing power plants

Retrofit, heat storage, grouping

Build new fossil fuel power plants

High-efficiency cogeneration, gas and steam plants

Europeanisation

"Norway battery"

Grid expansion & modernisation

Transmission cables & HVDC, "smart" distribution grids

Demand management

Variable load tariffs etc.

Organise system transformation platform

Power2Gas

Market integration of renewables

Market premium model, direct marketing, integration into balancing energy market

Bottleneck management

Market coupling, balancing energy market, redispatch

Enhancement of electricity and gas exchanges

Develop electricity and heating energy storage

- ► Comprehensive market design as indispensable factor for successful transformation
- ▶ Broad-based consensus within society necessary for paradigm shift

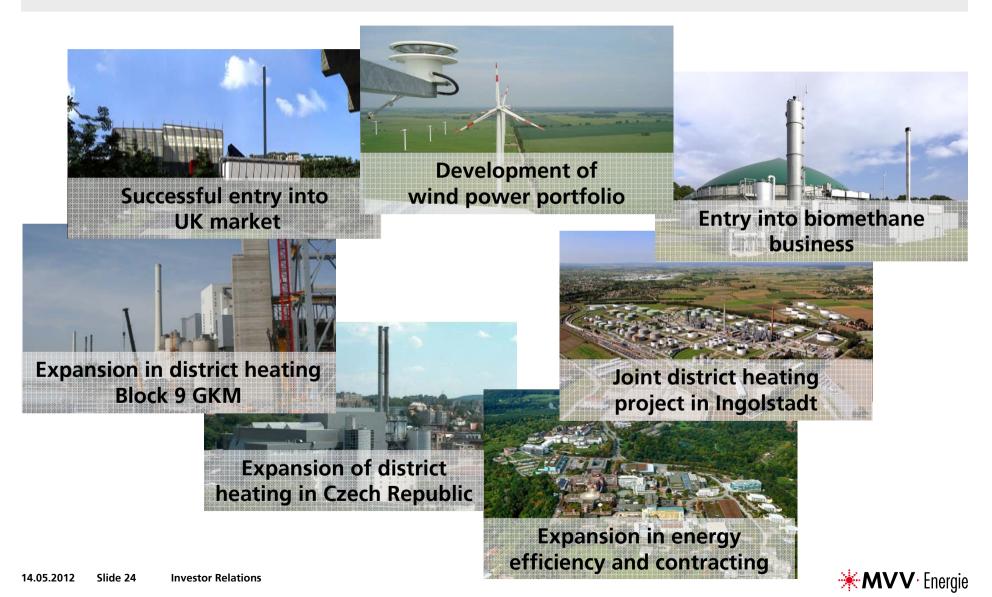




MVV Energie – Implementation of our strategy



We are making good progress with implementing our growth targets – Examples of projects implemented since MVV 2020



Kirchberg wind farm – Further step in high-growth wind power market



Kirchberg location in Rhineland-Palatinate

▶ Launch of operations: December 2011

▶ Investment: Euro 84 million

► Joint venture with juwi

▶ 23 E-82 E2 type wind turbines (Enercon)

▶ **Hub height:** 138 metres

▶ Output: 53 MW_e

► Electricity output: 125 GWh p.a. (equivalent to consumption of 35,000 households)

► CO₂ reduction: 100,000 tonnes a year

Launch of biomethane business at Klein Wanzleben location

Biomethane plant at Klein Wanzleben location

- ▶ Launch of construction work: end of May 2011
- ▶ Launch of operations: summer 2012
- ► Investment: Euro 12.6 million (of which MVV Energie: Euro 9.4 million)
- ▶ Biogas production: 63 million kWh p.a.
- ▶ Raw materials requirement:

 approx. 47,500 tonnes p.a. of maize silage,
 2,500 tonnes p.a. of sugar beet plus
 10,000 tonnes p.a. of sugar beet chips
 for process heat production (own consumption)
- ▶ Planned operating term: at least 20 years







Key component in expansion of renewable energies

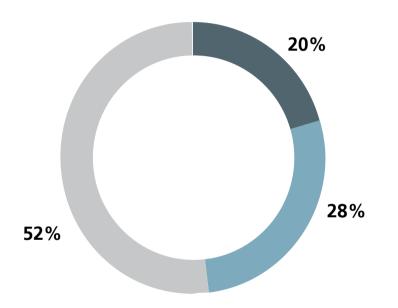


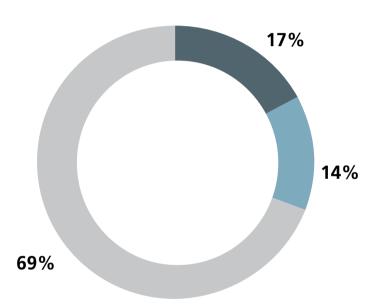
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High priority for renewable energies at MVV Energie Group

Electricity generation of the MVV Energie Group in Germany in FY 2010/11: 3.8 TWh







- Electricity from renewable energies, including biomass cogeneration and biogenic share of waste
- Electricity from cogeneration
- Other electricity generation

Sources: Renewable Energies Statistics Working Group (AGEE-Stat), Association of the German Energy and Water Industries (BDEW),
Berliner Energieagentur GmbH/Prognos AG and own calculations (preliminary)

MVV· Energie

Implementation: Successful expansion of district heating – Ingolstadt



Ingolstadt joint district heating project

- ▶ Launch of operations: summer 2011
- Bavaria's largest waste heat and district heating project
- ▶ Investment: around Euro 23 million
- ▶ Joint project with Petroplus refinery, City of Ingolstadt and AUDI AG
- ► Construction of a 5.3 km district heating pipeline
- ▶ Thermal energy output: 300 GWh p.a.

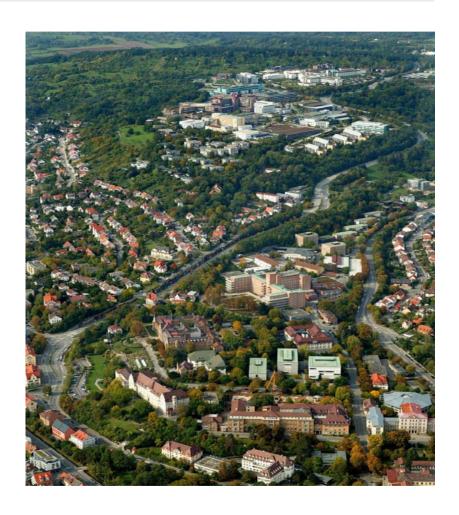
Enhanced energy efficiency and contracting – Tübingen University Hospital

Tübingen University Hospital

- ▶ Assumption of operations: July 2010
- ► Conversion of 40 year-old heat power plant from oil and gas to wood pellet operations
- ▶ Launch of operations with new system: end of 2012
- ▶ Investments: Euro 12 million
- ► Contractual term: 20 years
- ▶ Energy cost savings: 20% p.a.

Technical data

- ▶ 2 wood boilers: each 10 MW th
- ▶ CO₂ reduction: 20,000 tonnes a year, or up to 98%



Environmentally-friendly heating energy generation using ecological local heating supply



TERMIZO – Heating energy from waste

TERMIZO in the Czech Republic

- ► TERMIZO is a waste-fired heating energy plant that meets the highest European standards
- ▶ Purchase price: approx. Euro 21 million
- ► All of the heating energy produced is supplied to Teplarna Liberec
- ► Single-line plant concept with modern flue gas cleaning

Technical data

- ► Thermal energy output: 38.3 MW_t
- ▶ Electricity generation: 4.0 MW_₽
- ▶ Waste incineration capacity: 106,000 tonnes p.a.



Grosskraftwerk Mannheim (GKM)

Grosskraftwerk Mannheim (GKM)

- ▶ Launch of operations at Block 9: 2015
- ► Shareholder structure in GKM: 28% MVV Energie, 40% RWE, 32% EnBW
- ► Gross electricity generation capacity at GKM: 1,675 MW_{el}
- ► Gross electricity generation capacity at new Block 9: 911 MW_{el}
- ▶ Efficiency ratio of new Block 9: 70%
- ▶ District heating supply secure, as Blocks 3 and 4 to remain in operation until Block 9 is online
- ► Immissions protection approval to use Block 3 as "cold reserve" in winter months



Output from Block 9 will cover around 25% of electricity needs in Rhine/Neckar metropolitan region

Plymouth energy from waste plant project : MVV Energie wins contract to build and operate plant

South West Devon Waste Partnership



Investment and financing

▶ **Investment:** approx. Euro 250 million

▶ Financial close: 25 March 2011

► Construction: from 2012

▶ Launch of operations: from 2014

Technical data

▶ Nominal capacity: 245,000 tonnes p.a.

▶ Net electricity output: 22.5 MW_e

Max. thermal energy output: 23.3 MW_t

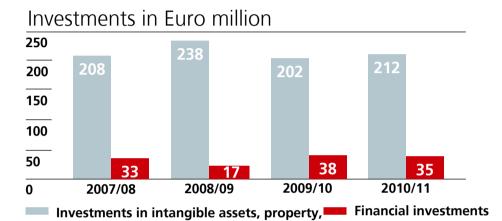
Broad revenue base

- Municipal waste contract: 25-year term, 75% bring-or-pay
- ► Energy supply contract with a 25-year term to supply electricity and steam to navy base
- ► Government support for cogeneration and generation of renewable energy from biogenic share of waste

Exporting our wealth of expertise in generating energy from waste to the UK



Investment and growth



Investments¹ in 2010/11 financial year

plant and equipment, investment property



1 Investments in intangible assets, property, plant and equipment, investment property, as well as payments for the acquisition of fully and proportionately consolidated companies and other financial assets

Existing business

- Optimising and preserving substance of supply facilities and distribution grids
- Concentration of locations and construction of new gas turbines in Kiel

Growth investments

- Extending the supply of district heating in Mannheim and construction of a district heating pipeline to Speyer
- Ingolstadt district heating association
- Construction of Klein Wanzleben biomethane plant
- Construction of Kirchberg wind farm
- Construction of Plymouth energy from waste plant
- Contracting project Tübingen University Hospital
- Construction of cogeneration plants in Czech Republic (COGEN II)
- Acquisition of cogeneration plant TERMIZO in Czech Republic



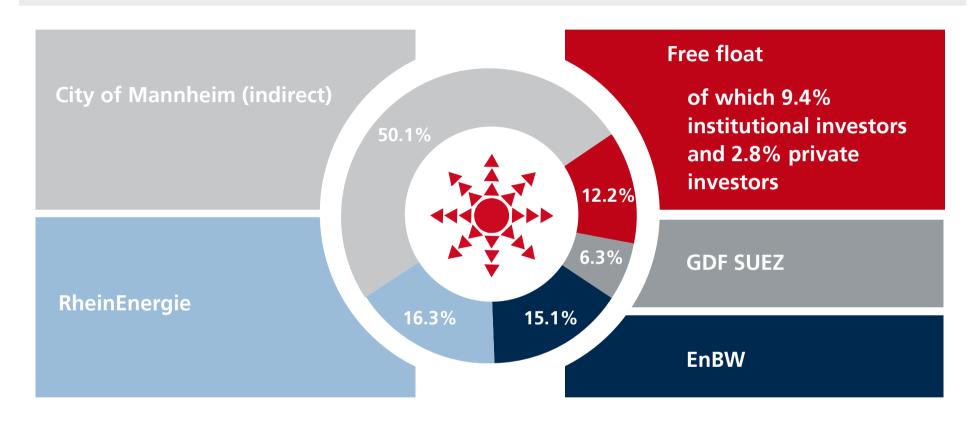




The share of MVV Energie



Current shareholder structure and key figures of MVV Energie AG



- No. of shares: 65.907 million
- Average daily turnover: 8,431 shares in 2010/11 FY
- Market capitalisation:

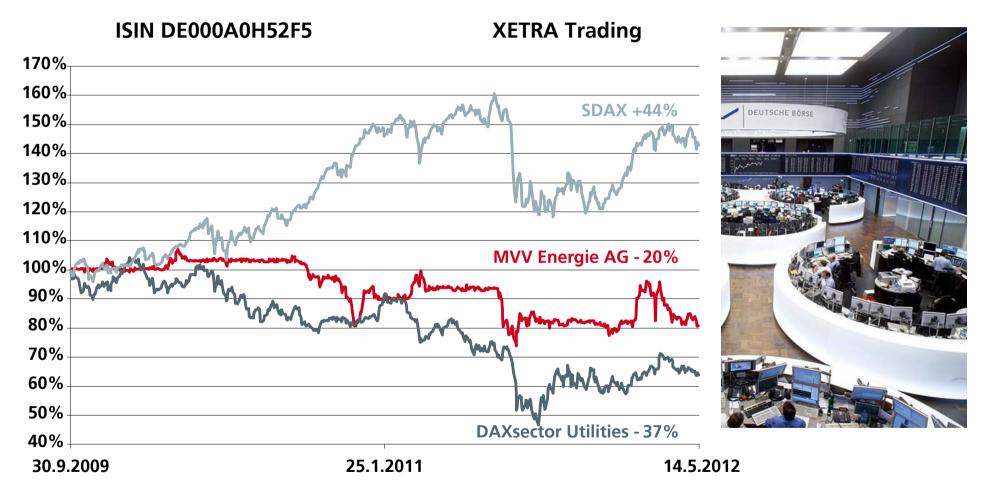
 Euro 1,490 million

 (Closing price on 14.5.2012:

 Euro 22.60)
- ► Free float: Euro 182 million



Performance comparison of the MVV Energie AG share



Share chart as performance comparison (including dividend payments in March 2010, 2011 and 2012) with SDAX and DAXsector Utilities



High dividend distribution in past eight years

Dividend

	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Dividend/Share (Euro)	0.75	0.75	0.80	0.80	0.90	0.90	0.90	0.90
Total dividend ¹ (Euro million)	38.0	41.8	44.6	52.7	59.3	59.3	59.3	59.3
Closing price on 30.9. (Euro)	14.40	19.29	23.23	29.49	33.20	30.83	29.00	23.86
Dividend yield ² (%)	5.2	3.9	3.4	2.7	2.7	2.9	3.1	3.8

¹ with dividend entitlement until FY 2003/04: 50.7 million shares; FY 2004/05: 55.7 million shares; FY 2005/06: 55.8 million shares; from FY 2006/07: 65.9 million shares

² dividend yield based on respective closing price in XETRA trading on 30 September

Advantages for our shareholders

Well balanced portfolio

- Across major steps of the value added chain,
- across regions and
- across customers

Green & clean

- No nuclear exposure in own generation
- Wind onshore, biomass and biomethane
- CHP and district heating
- R&D: Smart metering and E-mobility

Ambitious capex programme until 2020

- ▶ Euro 3 billion in total of which
 - Euro 1.5 billion in growth
 - Euro 1.5 billion in replacement investments

Solid balance sheet

- Long term investment horizon matched with long term maturities
- ► High equity ratio of 39.5%



Outlook



Outlook for 2011/12 financial year

► Sales target (excluding electricity and natural gas taxes) for 2011/12 financial year slightly above previous year's level (Euro 3.59 billion in 2010/11 financial year)



► Adjusted EBIT target of around Euro 220 million (Euro 242 million including interest income from finance leases in 2010/11 financial year)





Financial calendar of 2012/13



Financial calendar of 2012/13

1 5.5.2012	Half-Year Financial Report of 2011/12 and Analysts` Conference Call
1 5.8.2012	Financial Report 3 rd Quarter of 2011/12
▶ 18.12.2012	2011/12 Annual Report
▶ 18.12.2012	Annual Results Press Conference and Analysts` Conference in Frankfurt/Main
1 5.2.2013	Financial Report 1st Quarter of 2012/13
8.3.2013	Annual General Meeting in Mannheim
1 1.3.2013	Payment of Dividend
1 5.5.2013	Half-Year Financial Report of 2012/13 and Analysts` Conference Call
1 5.8.2013	Financial Report 3 rd Quarter of 2012/13





Back up

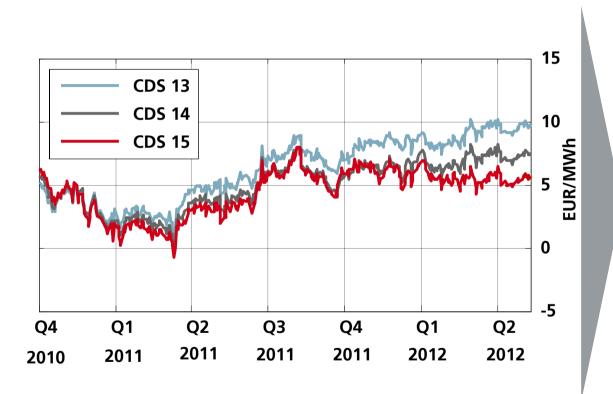


Sales and adjusted EBIT performance by quarter

Euro million

	2010/11 (1.10-30.9.)	2009/10 (1.10-30.9.)		% change		
1st Quarter	947	839		+13		
2 nd Quarter	949	1,004		-5		
3 rd Quarter	783	711		+10		
4 th Quarter	911	805		+13		
Sales in the financial year	<u>3,590</u>	<u>3,359</u>		+5		
1st Quarter	91	85		+7		
2 nd Quarter	113	125		-10		
3 rd Quarter	44	43		+2		
4 th Quarter	-6	-10		+40		
Adjusted EBIT in the financial year	242	243		0		

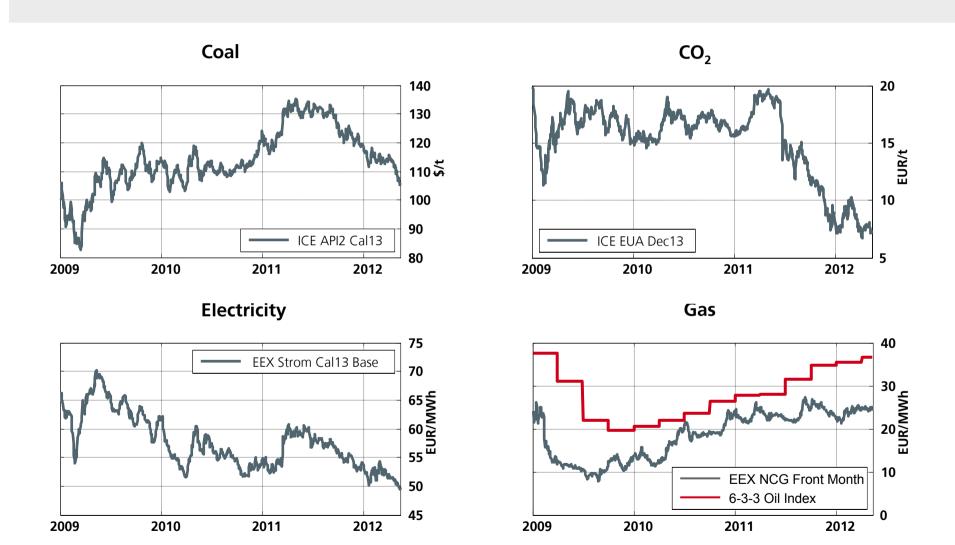
The Clean Dark Spread (CDS) development has a significant impact on the MVV Energie Group



Future CDS development will be influenced by different markets and political decisions:

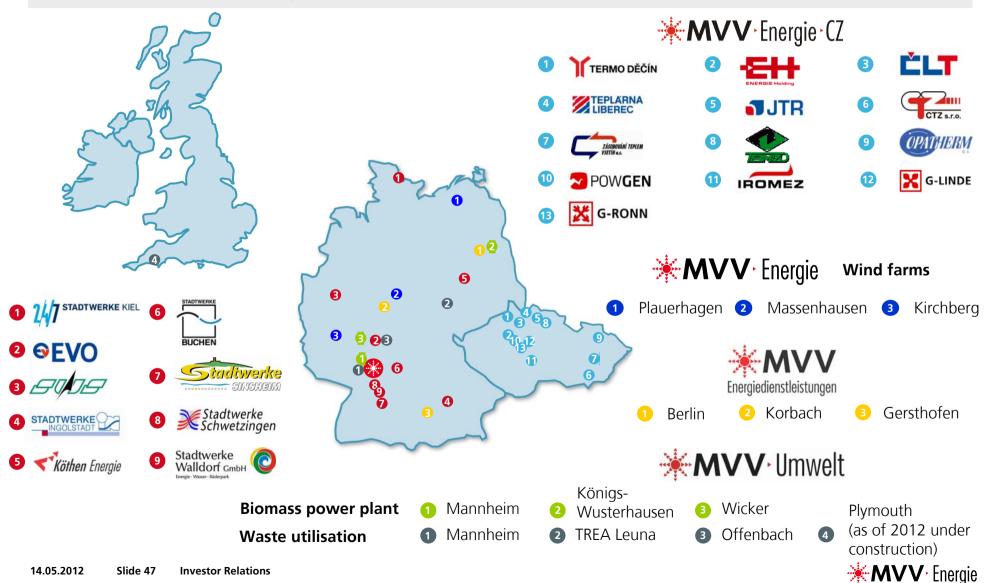
- ► German power generation
 - Nuclear exit
 - Renewable generation (wind, solar)
 - New conventional generation
- ▶ Global coal markets/FX
- ► Carbon price level

Energy price curves





Municipal utility companies and major locations of the MVV Energie Group



Decentralised energy supply – EVO wood pellet plant in Offenbach



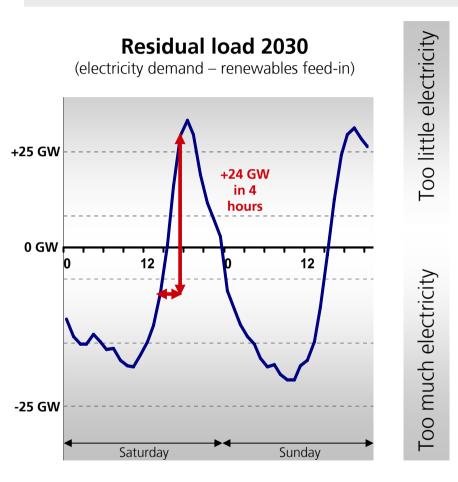
Wood pellet plant in Offenbach

- ▶ Launch of operations: May 2011
- Investment in wood pellet plant, including adjacent biomass cogeneration plant: approx. Euro 17 million
- Wood pellet production from shavings and waste timber: initially 65,000 tonnes a year
- ► Possibility of doubling wood pellet production in further expansion stage
- Substitute fuel for up to 50,000 tonnes of hard coal at EVO's cogeneration plant
- ▶ **CO₂ reduction:** up to 80,000 tonnes a year

One of Germany's most modern plants – making a key contribution to climate protection



Market integration of renewable energies will require highly flexible gas power plants and cogeneration plants



Conventional power plants

Import of electricity

Storage/flexibilities

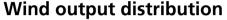
- Pump storage
- ► Heating energy storage
- ► Gas to power ("methanisation")
- Norway as battery
- ▶ Demand-side management

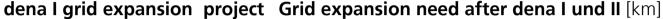
Switch off renewables plants

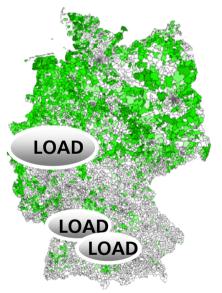
Export of electricity

► Increasing need for supply-side and demand-side flexibility with high load gradiants to offset fluctuating renewables feed-in volumes

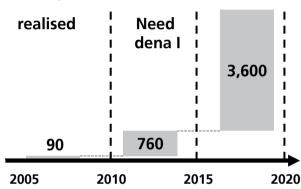
Grid expansion and conversion required on transmission and distribution grid levels











▶ Grid expansion costs including offshore link: ~ Euro 1bn p.a.

Sources: dena grid studies I and II; Renewable Energies Agency

- Expansion of smart transmission/distribution grids key aspect of energy turnaround
- Significant delays in transmission grid expansion (8 of 24 priority projects)