

2G. Company Presentation.



Speaker: Friedrich Pehle - CFO



Our product: Combined heat and power plants – CHP.

A combustion engine drives a generator.

20 kW - 4500 kW

350 kW in average

Input (100%):

All kinds of Gas

- Natural Gas
- Bio Gas
- Special Gas
 - Landfill Gas
 - Mining Gas
 - Sewage Gas
 - Mixtures
 - ...
- Pure H₂



agenitor

Output (up to 98%*):

Electrical Energy (up to 42%)

- Grid feeding
- Self-consumption

Thermal Energy (up to 60%)

- Heating systems (up to 90°C)
 - Grid feeding
 - Self-consumption
- High temperature applications (up to 400°C)
- Absorption chillers
- Steam generators

*) aura-model



Our product: Solution provider for many applications.

Industry and Trade	Industrial companies	Chemical Industry	Food Industry
Service	4% Hospitals	Sport and Event centers	Residential buildings and Public facilities
31% Energy	18% Utilies	Landfills and Sewage plants	D: 14% Biogas Plants



Our product: Competitive landscape.

Pana	Rang Unternehmen Instal. el. Kapazität in kW				Ø Modulgr	öße in kW		
Kang	Onternenmen	202	0	2019	Diff.	in %	2020	2019
1	INNIO Jenbacher	242.1	57	300.567	-58.410	-19%	1.459	1.698
2	MWM (Caterpillar)	1 <mark>95.6</mark>	82	187.625	8.057	4%	955	906
3	2G Energy AG	115.9	98	120.994	-4.996	-4%	317	347
4	TEDOM-SCHNELL	76.2	46	94.885	-18.639	-20%	300	301
5	MTU (Rolls-Royce) ¹	58.2	61	70.660	-12.399	-18%	1.059	906
6	Elektro Hagl (nur Biogas)	38.0	00				319	
7	ETW Energietechnik	28.7	' 50	30.633	-1.883	-6%	1.027	1.056
8	Zeppelin Power Systems	22.1	50	22.650	-500	-2%	1.846	1.510
9	agriKomp (nur Biogas)	19.8	55	17.250	2.605	15%	248	208
10	AB Energy Deutschland ²	19.2	04	36.500	-17.296	-47%	914	1.043
 25	 A-TRON	2.0	 22	 1.624	 +398	 25%	 20	 20

1) MTU Onsite Energy: MTU sources its CHP up to 550 kW entirely from 2G

2) AB Energy D.: AB is headquartered in Italy. Hence, Germany is not its home market and doesn't reflect its global importance.



2G Energy AG - Worldwide success with combined heat and power generation.

• Foundation: 1995 – HQ in North West of Germany

• **IPO**: 2007

Market Cap: app. 500 Mio. Euro; Free float: app. 55%

• Net sales 2021e: 250 – 260 Mio. Euro

■ **Employees**: app. 650-700 worldwide, 7 subsidiaries in USA, CA, UK, F, I, E, Pol

Importance to the (European) energy supply:

above 6'500 CHP plants in more than 50 countries

app. 1.8 GW act. capacity (compared to Brockdorf = app. 1.4 GW)

Competitive situation:

H2: Technological leader (worldwide); (H₂

Germany: General market leader

More **electricity** from coal.

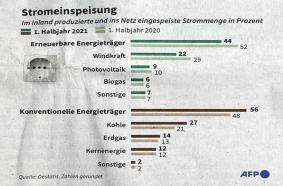
Mehr Strom aus Kohle

Flaute bei Windkraft im ersten Halbjahr / Klimaziele in Gefahr?

Wiesbaden - Ungünstige Witterungsbedingungen haben im ersten Halbjahr 2021 die Stromerzeugung aus erneuerbaren Energien in Deutschland deutlich sinken lassen. Die Kohle (27,1 Prozent) verdrängte die Windkraft (22,1 Prozent) wieder vom ersten Platz unter den eingesetzten Energieträgern, wie das Statistische Bundesamt mitteilte. Branchen- und Umweltverbände forderten einen schnelleren Ausbau der erneuerbaren Energien und der Speicher für Ökostrom.

Mehr als die Hälfte (56 Prozent) der gesamten in Deutschland erzeugten Strommenge von 258,9 Milli-Kilowattstunden arden stammten nach Berechnungen der Statistiker von Januar bis Juni aus konventionellen Quellen wie Kohle, Erdgas oder Kernenergie. Das war gut ein Fünftel mehr als ein Jahr zuvor.

Vor allem der Verbrauch der als besonders klimaschädlich geltenden Braunkohle stieg kräftig. Deutschland will bis 2038 ganz aus der Stromproduktion mit Kohle aussteigen. Der Anteil erneuerbarer Energien wie Wind, Solarenergie und Bio-



gas sank dagegen auf 44 Prozent. Im ersten Halbjahr 2020 hatten die Öko-Energien den gesunkene Stromverbrauch Stromerzeugung mit Windenergie auf den niedrigsten höchsten seit 2018.

gen, wie abhängig die Öko-

Witterungsbedingungen ist. "Die Werte der Erneuerbaren Rekordanteil von 51,8 Pro- sind im Vergleich auch deszent an der Stromproduktion halb insgesamt geringer, weil erreicht. Fast 30 Prozent der es im ersten Halbjahr 2020 eideutschen Stromerzeugung ne außergewöhnlich hohe lieferten damals Windräder Einspeisung gab", hatte die an Land und auf See. Auch Bundesnetzagentur in ihrer ten aber, dass "das Ausbauder in der Corona-Pandemie Analyse der Stromproduktion im ersten Halbjahr 2021 hatte den Ökostromanteil festgestellt. Der Februar 2020 steigen lassen. Jetzt sank die sei wegen mehrere Sturmtiefs der Monat mit der Ökostromerzeu-Wert für ein erstes Halbjahr gung seit mindestens 2015 gewesen. Im Frühjahr 2021 Die aktuellen Zahlen zei- blies der Wind dagegen weniger heftig.

stromproduktion von den

Ein Tag nur Ökostrom

An Tagen mit niedrigem Stromverbrauch kommt Deutschland manchmal ganz ohne konventionellen Strom aus. Der 31. Juli, ein Samstag, war nach Angaben der Bundesnetzagentur so ein Tag. Zwischen 9.15 Uhr und 16.45 Uhr deckten die erneuerbaren Energien durchgehend den Stromverbrauch. Das sei der längste durchgängige Zeitraum seit mindestens 2015 gewesen, hieß es.

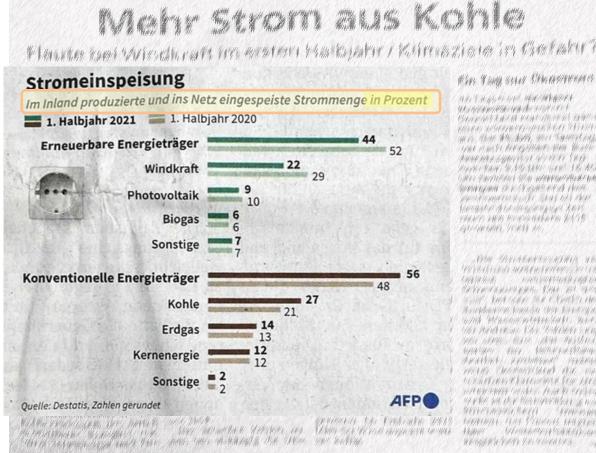
"Die Stromerzeugung aus Wind und Sonnenenergie unterliegt wetterbedingten Schwankungen. Das ist normal", betonte die Chefin des Bundesverbands der Energieund Wasserwirtschaft, Kerstin Andreae. Die Zahlen zeigtempo der Erneuerbaren deutlich anziehen" müsse, wenn Deutschland die verschärften Klimaziele für 2030 erreichen wolle. Auch müsse mehr in die Entwicklung von Stromspeichern investiert werden, um Phasen ungüns-Wetterverhältnissen tiger ausgleichen zu können. dpa



29.11.2021



Power feed-in in %.



When Winds areas Strangerowers Marie & Marie of the state of t BELLEVINE WILLIAM BURGAL STORY CALLS There were her had the year to play to the the there PAREN ANDRUGHING WAS BELLE SERVENCE May the March & the North, What Granwal was LIBER TO SECTE FRANCES SHOWN SHOW SHOW SHOW SHOW AMERICAN AMERICAN STRUCTURE armone i bisent " bio, billo blobber (b) billo billo Alli lannavisjana (le in AV studik eti uk i kotik BURELLANDERS BURELLANDE BARE BAR PAGE Commission of the commission of the con-YARANY WANT BUNGARAKATAN YANTAN 144) GROBINS, YESKA SIL

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Lack of reliability in wind and solar systems.

How was the summer halfyear (Q2 + Q3)?

- 1. Increase in production (+10%).
- 2. Renewable energies are losing relative importance.
- 3. Electricity generation from wind and solar increases by 4% and 2% respectively.
- 4. While at the same time the production of coal-fired electricity increases by 40%.

	Quelle der Stromerzeugung im Sommerhalbjahr 2021										
	in MWh	2020	2021	Veränd	lerung						
				abs.	in %						
	Total	212.141	233.638	21.497	10%	\Box					
	davon										
	Erneuerbar	50%	47%	-3%	-points	\Box					
	Konventionell	50%	53%	3%	-points	IJ					
	Wind	41.969	43.845	1.875	4%	П					
	Solar	34.063	34.813	751	2%	IJ					
	Wasser	8.268	8.730	461	6%						
	Biomasse	21.265	22.726	1.461	7%						
	Erneuerbare	105.566	110.114	4.549	4%						
	Atom	28.269	32.041	3.772	13%						
	Kohle	47.569	66.385	18.815	40%	\Box					
_	Erdgas	27.276	21.572	-5.705	-21%	\Box					
	Öl und andere	3.461	3.526	65	2%						
	Konventionell	106.575	123.523	16.948	16%						



One day just green electricity.

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A day here means: 7 1/2 hour

Never before has there been a longer period of time with 100% RE

A Saturday in midsummer

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Ein Tag nur Ökostrom

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A working day in autumn.

Tuesday, last week

- 1. Wind and solar had a utilization rate of 2% and 0% respectively.
- 2. At this level of utilization, additional wind and solar systems do not help any further => the failure of app 20 GW of nuclear + coal power cannot be covered in this way.
- 3. Import as a solution difficult:
 - Interconnector capacities are already largely exhausted.
 - The European neighbours also produce predominantly conventional electricity on this day.
- 4. Normally, only 30 GW (end of 2023: 27.5 GW) of coal-fired power plants are available.

Energiemix: Dienstag, 16. Nov. 2021, 16:00 Uhr								
in GW	IST	Kapaz.	Nutzung					
	20.	параг.	ung./frei	in %				
Total	66,5							
davon								
Erneuerbar	17%							
Konventionell	83%							
Wind	1,0	63,2	62,2	2%				
Solar	0,2	56,0	55,8	0%				
Wasser	3,4	14,7	11,3	23%				
Biomasse	5,0	8,6	3,5	59%				
Import (Schätz.)	1,5	max. 8,5	-	-				
Erneuerbare	11,1	142,4	131,3	8%				
Atom	8.0	8,1	0,1	99%				
Kohle	27.3	44.0	16.7	62%				
Erdgas	12,1	30,5	18,4	40%				
Öl und andere	1,2	8,1	6,9	15%				
Import (Schätz.)	6,8	max. 8,5		-				
Konventionell	55,4	90,7	35,3	61%				

Remaining gas-fired power plants are not enough.



Remaining gas-fired power plants are not enough: exploratory paper of future federal government.

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Meeting climate protection targets also requires an accelerated phase-out of coal-fired power generation. Ideally, this should be achieved by 2030, which will require the massive expansion of renewables and **the construction of modern gas-fired power plants** that we are striving for in order to meet the rising demand for electricity and energy over the next few years at competitive prices. ...

The gas-fired power plants needed until security of supply is ensured by renewable energies must be built in such a way that they can be converted to climate-neutral gases (H2-ready).

The parties of the future federal government are explicitly committed to the construction of new gas-fired power plants, which must be convertible to H₂.



(Original) Power plant list of the Federal Network Agency.

2021 2022 2023	
Erdgas 563 1.798 Pumpspeicher 16 sonstige Energieträgern (nicht erneuerbar) 35 58	2021 - 2023
Pumpspeicher 16 sonstige Energieträgern (nicht erneuerbar) 35 58	1
sonstige Energieträgern (nicht erneuerbar) 35 58	2.36
	1
Insgesamt 627 1.856	S
	2.48
19.01.2021	

- For power plants above 10 MW, only the addition of 2.5 GW is expected.
- What is not registered today will not be connected to the gird till the next 3-5 years.
- Until new large-scale power plants are connected to the grid, there is a huge gap (app. 15-20 GW).
- This gap is widened by accelerated shut down of further coal fired power plants.

Federation of German Industries sees a need for 43 GW of additional gas-fired power plant.



Additional gas-fired power plants are needed.

Because they are

- cleaner and more efficient than coal-fired power plants.
- base-load-capable.

But they also have

- to be based on proven technology.
- to be installed all over Germany on short notice.
- to be H₂-ready.

Only CHPs (of the latest generation) meet these three criteria.

Technologiefüher bei H2

2G is ready. Unique H₂ competence:



2G offers a full range of products and maintains a regular price list.

Тур		Output		Elec	ctrical level		
	Configuration	Elektrical	Thermal	Elektrical	Thermal	Overal	
agenitor 404c H ₂	ct0-0	115 kW	129 kW	37.7 %	42.3 %	80.0 %	
agenitor 406 H ₂	ct0-0	170 kW	183 kW	39.0 %	41.9 %	80.9 %	
agenitor 408 H ₂	ct0-0	240 kW	250 kW	40.2 %	41.9 %	82.1 %	
agenitor 412 H ₂	ct0-0	360 kW	371 kW	40.5 %	41.7 %	82.2 %	

- 2G has already sold numerous H₂ CHP units.
- 2G is the only CHP supplier in the world that guarantees that a conventional CHP can later be converted into an H₂ CHP.

Technologiefüher bei H2

2G ist bereit. Einzigartige H₂-Kompetenz:

(0) Germany: Airport Berlin (in 2012 already;

(project stopped due to change in customers priorities)

(1) Germany: Utility of Haßfurt in Bavaria

(2) Dubai: Siemens solar park

(3) Germany: Experimental station at Rostock-Laage

(4) Japan: Toyota

(5) Germany: Residential property in Esslingen/Germany

(Although funded this project is not for research purposes)

(6) Scotland/UK: Airport on Orkney Islands

(7) Japan: Tokyo to support the local grid with green electricity and heat

(8) Germany: Further order from Public customer (Northern Germany)

(9) Germany: Further order from Industrial customer (Southern Germany)

(10) Japan: YANMAR (Werk 1)(11) Japan: YANMAR (Werk 2)

(12) Germany: Further order from Industrial customer

(13) Worldwide: Several further projects currently under negotiation



2G is ready. Unique H₂ competence:

Conversion capability is a unique selling point and strategic key

- Comprehensive replacement of nuclear and coal-fired power plants with natural gas CHP plants that are H₂-ready.
- Granular conversion from natural gas CHP to H2
 - first: by general admixture of H2 (affects all consumers)
 - then: Conversion of individual CHP units to 100% H₂, depending on availability.
- If necessary, H₂ CHP units can also be operated with natural gas.
- Finally: complete back-up with base-load capable H₂ CHP.

On Tuesday, November 16, the wind and solar plants delivered less than 2% of their rated output = > rest must be covered by other CO2-free sources.



Net Zero is sought internationally.

- For 70% of global CO₂ emissions, the commitment to Net Zero by 2060 or much earlier already applies.
- This means that a base-load-capable alternative must be found for 50% of the world's coal-fired electricity.
- At the same time, the global demand for electrical and thermal energy is (strongly) increasing.
- Renaissance of nuclear energy is basically not a solution in the short term (typically significant construction delays combined with cost explosion).
- Absolute nuclear power production has been declining globally for years and will certainly not rise again.
- Currently, the LNG infrastructure is being massively expanded worldwide.



Country overview.

- U.S. has adopted a \$1 trillion program to strengthen general infrastructure, including power infrastructure and climate protection.
- Poland to build gas pipeline from Norway via Denmark (commissioning 2022).
- France extends nuclear lifetimes => output is steadily decreasing as downtimes increase.
- The UK is not completing the two new nuclear power plants in time; Electricity is current and in short supply in the coming years.
- Belgium to shut down 6 GW of nuclear energy by 2025 and become a net importer.
- Switzerland identifies investment needs in order not to become a victim of the electricity gap in Germany.
- Japan has adopted an ambitious H2 strategy and started implementation.
- ...



Order intake rises continuously.

Comparison 2021 to 2020

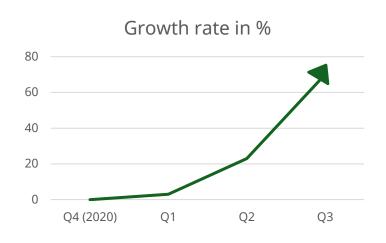
Q4 (2020): + 0 %

• Q1: + 3 %

• Q2: + 23 %

Q3: + 70 %

• YTD: + 25 %



Germany, the USA and the UK are already on a continuous growth path. Significant increase in demand from these countries is plausible.

2G®

Development of company.

Strong sales growth in the coming years

in Mio. €	2020	2021e	2022e	2024e	2026e
Turnover	246,7	250-260	260-290	330	400
EBIT	16,5	15,0 - 17,5	n. d.	33,0	34,0 - 40,0
in % of EBIT	6,7%	6,0 - 6,75%	n. d.	10%	8,5 - 10%

Only moderate growth assumptions were made for Germany, the USA, the UK and Asia.



Development of company.

Capacity expansion in the coming years

- Previous annual production: approx. 200 MW
- Future capacities at the Heek site: approx. 500 MW
- Preconditions:
 - Increased throughput through further industrialization of processes (lead-to-lean project)
 - Further standardization both in the product portfolio and in assembly processes
 - A few additional halls in the commercial area (purchased, rented or built by yourself)
- No bottlenecks:
 - Market potential (due to energy transition and H₂ literally "immeasurable")
 - Financing (high equity ratio; strong cash flow due to advance payment culture)
 - Procurement (CHP units consist largely of "unspectacular" components of European origin)

Should there be a disproportionate increase in demand, the situation will take on characteristics of a seller's market.

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Investment Case.

- Competitive advantage through R&D; technology leader; H2
- Strong tailwind due to
 - Strong reduction of coal and nuclear power in Germany (20 GW by 2022) and in the rest of Europe (50 GW by 2023)
 - Increasing availability of LNG worldwide
 - Increasing energy demand (e-mobility, heat pumps, growing world population)
- Stable and long-term predictable cash flows
 - Service business (growing, already 1/3 of Group sales today)
 - Advance payments by customers for project business
- Sales of EUR 330 million achievable without significant additional investments
- ISS Prime rating:



PRIME STATUS

Awarded to companies with an ESG performance above the sector-specific Prime threshold, which means that they fulfil ambitious absolute performance requirements.

Kontakt.



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Finanzkalender.



November 22-24 German Equity Forum (virtual)

Pareto Securities' 24th annual Power & February 3

Renewable Energy Conference

February 24 Announcement of Preliminary Net Sales 2021

March 31 Preliminary results for FY 2021, 2022 guidance

Consolidated financial statements for FY 2021 April 22

May 19 Q1 key figures and business trends

Ordinary AGM, Ahaus June 3

September 8 Consolidated financial statements for H1 2022

November 21 Q3 key figures and business trends



Thank you very much for your attention!



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Order intake Q3

Q3	Q3 2021		Q3 2020		Deviation	
СНР	in MEUR	in %	in MEUR	in %	in MEUR	in %
Germany	23,8	54%	18,3	70%	5,5	30%
Rest of Europe	13,4	30%	5,5	21%	7,9	144%
North-/Central America	0,9	2%	0,2	1%	0,7	350%
Asia/Australia	2,5	6%	0,3	1%	2,2	733%
Rest of the world	3,3	8%	1,7	7%	1,6	94%
TOTAL	43,9	100%	26,0	100%	17,8	69%

Order intake 2021 YTD vs. 2020 YTD

Gesamtjahr JanSept.	202	1	2020)	Deviat	ion
СНР	in MEUR	in %	in MEUR	in %	in MEUR	in %
Germany	71,5	52%	72,9	66%	-1,4	-2%
Rest of Europe	41,5	30%	23,0	21%	18,5	80%
North-/Central America	13,9	10%	2,3	2%	11,6	504%
Asia/Australia	5,1	4%	7,7	7%	-2,6	-34%
Rest of the world	6,1	4%	4,4	4%	1,7	39%
TOTAL	138,1	100%	110,3	100%	27,8	25%



Key figures.

	Q3 2021	Q3 2020	Δ	2020
Revenues	51,5 Mio. Euro	61,0 Mio. Euro	-15,6 %	246,7 Mio. Euro
Total output	67,1 Mio. Euro	64,7 Mio. Euro	3,7%	254,2 Mio. Euro
EBIT	1,4 Mio. Euro	2,7 Mio. Euro	-48,1 %	16,4 Mio. Euro
Liquidity	15,0 Mio. Euro	6,0 Mio. Euro	+250,0 %	11,0 Mio. Euro