

CHP Market Directory 2017

Overview of companies in the CHP sector

Introduction

The principle of combined heat and power

Use energy once, benefit twice: this is the principle of combined heat and power (CHP). In the past, electricity and usable heat were usually generated separately, but combined heat and power connects these processes to reduce the overall amount of fuel required. This makes combined heat and power the most efficient way of using fuels to generate energy, regardless of whether the fuel in question comes from fossil or renewable sources. It has enormous potential for the conservation of resources and the protection of our climate. Increased use of CHP can help lower CO₂ emissions and reduce the amount of primary energy needed.

In most cases, CHP is produced by internal combustion engines or gas and/or steam turbines in conjunction with a generator. However, steam engines, Stirling engines, Organic Rankine Cycle (ORC) systems and innovative technologies such as fuel cells are also being used for the generation of combined heat and power. This technology is now available in the form of packaged cogeneration systems for use in companies, and to supply individual buildings in larger properties such as care homes and similar institutions.

The versatility of CHP technology, starting with micro-CHP units through distributed cogeneration systems to the use of local and district heating offers an inexpensive, simple and environmentally compatible option for integrating heat from renewable sources in particular into urban supply infrastructures in the medium term.

The goal: 25% CHP in NRW by 2020

The federal government of North Rhine Westphalia (NRW) wants to drive forward the ‚Energiewende‘, Germany’s transition to sustainable energy, by the expansion of combined heat and power (CHP). The aim is to increase the percentage of electricity generated by CHP plants in NRW to at least 25% by 2020.

To this end, a comprehensive CHP stimulus programme running over several years was instigated to push investment in CHP and achieve the expansion of the district heating infrastructure. The state government’s CHP incentives programme is underpinned by the KWK.NRW – Strom trifft Wärme (CHP.NRW Electricity – Meets Heat) campaign to increase awareness of the technology and promote its expansion. One tool offered by the campaign is the CHP Market Directory.

CHP Market Directory

The CHP Market Directory serves as a guide to help locate suitable companies or service providers, research establishments, associations and interest groups and offers an overview of finance providers, contractors and district heating suppliers.

- Who can provide advice on the planning and financing of a CHP facility?
- Where do I find specialist contractors to install it?
- Who can provide information about district heating?

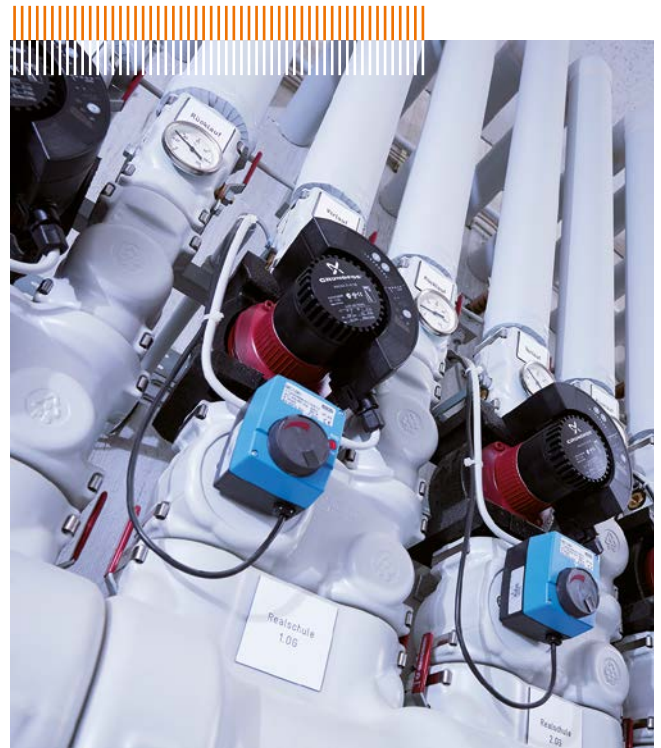
This ‚CHP Market Directory 2017‘ publication provides the answers to these and many other questions.

A more comprehensive online version of the directory can be accessed from the campaign’s website:

www.kwk-für-nrw.de

The online market directory also offers the additional options of locating companies on a map and as a list entry. The search function includes filters allowing companies and establishments to be selected according to product or service portfolio and other categories.

The market directory is a tool of the CHP.NRW – Electricity Meets Heat campaign and aims to provide the user with an independent overview.





The campaign

CHP.NRW – Electricity Meets Heat

Through its CHP.NRW – Electricity Meets Heat („KWK.NRW – Strom trifft Wärme“) campaign the EnergieAgentur.NRW is supporting the state government's objective of expanding the use of CHP. Together with relevant groups from the business and research segments and community and administrative bodies in NRW, the campaign brings together a wide range of activities and measures designed to increase awareness of CHP technologies, their benefits and areas of application.

CHP campaign partners are at your service:

On behalf of and in collaboration with our partners we offer a wide range of services to support you in realising CHP solutions.

Consultancy services:

Which CHP system will meet my requirements?

- We provide advice to private customers, companies and local authorities by telephone or in a personal consultation.
- Practical calculation tools for small-scale CHP systems designed for residential buildings and companies are available on our website.

Projects:

From idea to start-up.

- We provide support with developing CHP projects.

Financing:

How do I finance my CHP unit?

- We provide information about financing concepts e.g. contracting, leasing or government subsidies.

Training and professional development:

Enhance your expertise.

- We offer training documentation and provide information about target group-specific courses, workshops and seminars.

Information:

What do I have to know?

- We provide information about technologies, subsidy schemes and much more.
- We report on projects and innovations.
- We provide contacts and bring partners together.

Events:

Who, what, when, and where?

- Throughout NRW we organize information sessions and other special events and attend trade fairs.

Online resources:

Constantly updated at www.kwk-für-nrw.de

- Checklists
- Calculation tool for small-scale CHP systems
- Events
- Project case studies
- Subsidies schemes
- Partner offers
- Online CHP Market Directory

All offers from EnergieAgentur.NRW are non-proprietary and in the pre-competitive domain

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Companies	Contact	Description
2G Energietechnik GmbH - Niederlassung Ost	Am Krümmling 1, 6184 Halle-Dieskau www.2-g.de info@2-g.de	2G Energy AG is a world-leading manufacturer of cogeneration units and has installed over 4,000 units in more than 35 countries.
2G Energietechnik GmbH - Niederlassung Nord	Tempowerkring 1b, 21079 Hamburg www.2-g.de info@2-g.de	2G Energy AG is a world-leading manufacturer of cogeneration units and has installed over 4,000 units in more than 35 countries.
2G Energietechnik GmbH - Niederlassung Süd	Rauhöd 2, 83137 Schonstett www.2-g.de info@2-g.de	2G Energy AG is a world-leading manufacturer of cogeneration units and has installed over 4,000 units in more than 35 countries.
2G Energy AG	Benzstraße 3, 48619 Heek www.2-g.com info@2-g.de	2G Energy AG is a world-leading manufacturer of cogeneration units and has installed over 4,000 units in more than 35 countries.
AGFW Der Energieeffizienzverband für Wärme, Kälte und KWK e. V.	Stresemannallee 28, 60596 Frankfurt am Main www.agfw.de info@agfw.de	In its capacity as an energy efficiency association, the AGFW supports the development and expansion of CHP, the generation of heat from renewable energies, district heating, cooling and storage on all scales.
AGO AG Energie + Anlagen	Am Goldenen Feld 23, 95326 Kulmbach www.ago.de, info@ago.de	The Kulmbach-based company, which was founded in 1980, specialises in innovative and efficient energy supply systems for industrial customers and local authorities.
AGO AG Energie + Anlagen	Hanns-Martin-Schleyer-Straße 23, 47877 Willich www.ago.de, info@ago.de	The Kulmbach-based company, which was founded in 1980, specialises in innovative and efficient energy supply systems for industrial customers and local authorities.
AKM Industrieanlagen GmbH	Augustusstraße 8a, 45721 Haltern am See www.akm-industrieanlagen.de info@akm-industrieanlagen.de	Manufacture, sales and servicing of ammonia/water absorption coolers to -10°C from 20 kW to 1 MW cold from heat below +100°C by small-scale cogeneration, solar energy, waste heat, district heat or geothermal energy systems.
Arcanum Energy Management GmbH	Iserlohner Straße 2, 59423 Unna www.arcanum-energy.de info@arcanum-energy.de	As an independent energy service provider we support you with the commercial and technical realisation of CHP projects, taking account of current market conditions and funding schemes.
Architektur Energie Dipl.-Ing. Ursula Jungius	Huffmannstraße 58, 45239 Essen www.architektur-jungius.de info@architektur-jungius.de	We offer architectural concepts, conceptual design, approval and construction planning, project coordination, refurbishment and rebuilds for existing building stock, new builds, energy consulting, construction to passive house standard.
August Brötje GmbH	August-Brötje-Straße 17, 26180 Rastede www.broetje.de info@broetje.de	The heating system technology supplier offers state-of-the-art heating systems for gas and oil, hot water storage systems, gas/oil burners, heat pumps, solar technology and radiators.
Baupartnerinnen	Butenbergs Kamp, 45259 Essen www.baupartnerinnen.de service@baupartnerinnen.de	Consultant for Bafa and Kfw programmes for energy efficiency in commercial and residential construction. Construction management for special buildings and residential buildings for general contractors and architects.
BERNDT ENERSYS	Otto-Hahn-Straße 6, 53501 Gelsdorf www.Berndt-Energys.de info@berndt-energys.de	Our product range for CHP systems includes YANMAR gas engine-driven heat pumps and cogeneration units from EC POWER for universal heating and cooling.
BET Büro für Energie-wirtschaft und technische Planung GmbH	Alfonsstraße 44, 52070 Aachen www.bet-aachen.de info@bet-aachen.de	BET offers: investment advice for heat/power/EEG (renewable energy act-funded) systems; sales consultancy contracting/district heating; operational optimisation of CHP systems; EEG/KWKG-related consultancy
BFT Planung GmbH	Im Süsterfeld 1, 52072 Aachen www.bft-planung.de post@bft-planung.de	As a general engineering consultancy with more than 30 years of experience in energy and plant engineering, we offer energy advice, profitability analyses and energy supply concepts.
Bosch KWK Systeme GmbH	Justus-Kilian-Straße 29-33, 35457 Lollar www.bosch-kwk.de info.kwk@de.bosch.com	Since 1983, Bosch KWK Systeme GmbH has been developing and building packaged cogeneration systems for both biogenic and natural gas and has decades of experience in building CHP plants.
Bosch Thermotechnik GmbH Buderus Deutschland	Sophienstraße 30-32, 35576 Wetzlar www.buderus.de info@buderus.de	Bosch Thermotechnik GmbH is a Bosch Group company which together with its international subsidiaries is a leading European manufacturer of resource-conserving heating products and hot water solutions.
Brockbals GmbH	Berliner Straße 197-199, 33330 Gütersloh www.brockbals.de info@brockbals.de	We have been installing small-scale cogeneration units since 1999 and are happy to help with the planning/supply and installation of your cogeneration facility. We also provide advice on relevant subsidies and/or
Bundesverband Kraft-Wärme-Kopplung e.V. (B.KWK)	Markgrafenstraße 56, 10117 Berlin www.bkwk.de, info@bkwk.de	The B.KWK (German federal association for CHP) is committed to promoting CHP from micro to large-scale units in all areas of application. Its aim is to increase efficiency in energy conversion.

Companies	Contact	Description
Caterpillar Energy Solutions GmbH	Carl-Benz-Straße 1, 68167 Mannheim www.mvm.net, info@mvm.net	The Mannheim company founded by Carl Benz in 1871 and its MWM brand are a byword for highly efficient and environmentally compatible CHP units for distributed power generation.
co2online gGmbH	Hochkirchstraße 9, 10829 Berlin www.co2online.de/kwk kontakt@co2online.de	co2online provides consumers with independent information on small-scale cogeneration units and CHP systems. Includes information on operation, retrofitting, costs and subsidies.
COMUNA metall Vorrichtungen- und Maschinenbau GmbH	Südstraße 7, 32130 Enger www.comuna-metall.de bhkw@comuna-metall.de	Cogeneration unit modules, outputs of 50 kW / 112 kW: Manufacture, sales, assembly/installation; maintenance/servicing, operations management, contracting; complete energy centre with CHP
DFIC - Dr. Fromme International Consulting	Zweigertstraße 43, 45130 Essen www.dfic.de info@dfic.de	DFIC is an independent, owner-managed consultancy specialising in energy and climate protection, energy efficiency and renewable energies.
DVGW Deutscher Verein des Gas- und Wasserfaches e.V. - Landesgruppe NRW	Josef-Wirmer-Straße 3, 53123 Bonn www.dvgw-nrw.de dvgw-info@dvgw-nrw.de	The DVGW (German Gas and Water Association) promotes the gas and water sector in respect of technical and scientific issues and works to ensure safety and quality standards in the industry.
E-quad Power Systems GmbH	Nordstern-Park 17a, 52134 Herzogenrath www.microturbine.de info@microturbine.de	E-quad Power Systems GmbH is the Germany-wide distributor and authorised service provider of the world's leading manufacturer Capstone Turbine Corp. for micro gas turbines.
E.ON Connecting Energies GmbH	Brüsseler Platz 1, 45131 Essen www.eon-connecting-energies.com ect@eon.com	E.ON Connecting Energies is an international provider of integrated energy solutions for industrial clients.
E-S-T Gesellschaft für Energiesystemtechnik GmbH	Hoffnungstraße 16, 45127 Essen www.est-essen.de est-consult@est-essen.de	Energy management/technical advice; contracting concepts; planning, tendering, contract award, construction supervision, site management; renewable energies; advice on KfW development bank loans
EDL HV GmbH & Co. KG	Bitzenstraße 11b, 35708 Haiger www.edl-hv.de info@edl-hv.de	Our experienced team will alleviate your concerns about rising energy prices, the best heating technology or increasing power requirements in your home, residential complex or company building.
Elcore GmbH	Bayerwaldstraße 3, 81737 München www.elcore.com, vertrieb@elcore.com	Gas-operated fuel cells to produce electricity and heat for domestic use
Energieberatung Tenta	Steeler Straße 355, 45138 Essen www.energieberatung-tenta.de info@energieberatung-tenta.de	As an engineering consultancy we not only specialise in CHP systems, we can also provide you with independent support for commercial and technical implementation of your projects and help with obtaining funding.
Energiebüro Schaumburg	Schemmer Straße 4, 51709 Marienheide www.energiebuero-schaumburg.de kontakt@energiebuero-schaumburg.de	Energiebüro Schaumburg is a byword for expertise and experience in refurbishing buildings to make them more energy efficient. For us, maximum energy efficiency is not just a buzzword but something that we live and breathe.
energielenker GmbH	Hüttruper Heide 90, 48268 Greven www.energielenker.de info@energielenker.de	energielenker GmbH is a specialist operating Germany-wide particularly in the field of renewable and distributed energy supply.
Energieservice Westfalen Weser GmbH	Bahnhofstraße 40, 32278 Kirchlegern www.systemkraftwerk.com info-systemkraftwerk@ww-energie.com	Energieservice Westfalen Weser has installed around 210 CHP units to date - from 15 to 4,800 kW, operated with natural gas, bio-gas and bio-methane. We can market outputs from 200 kW as balancing energy.
Energieversorgung Oberhausen AG	Danzigerstraße 31, 46045 Oberhausen www.evo-energie.de service@evo-energie.de	Energieversorgung Oberhausen AG (evo) supplies Oberhausen with electricity, natural gas, district heating and energy-related services.
enerion GmbH & Co. KG	Südstraße 52, 52064 Aachen www.enerion.de info@enerion.de	enerion offers consultancy services for industry/service sector/non-profit organisations. Its areas of expertise include e.g. devising innovative energy and sustainability concepts.
ENERPIPE GmbH	An der Autobahn M1, 91161 Hilpoltstein www.enerpipe.de info@enerpipe.de	The ENERPIPE end-to-end portfolio ranges from highly insulated piping systems and efficient buffer storage system controls for local heating systems to intelligent boiler house control technology.
ENVIRO pro	Bismarckstraße 142, 47057 Duisburg www.enviro-pro.de energie@enviro-pro.de	ENVIROpro produces energy concepts and conducts energy consultations and energy audits, with a focus on renewable energies. We also provide support with introducing energy and environmental management systems.
Ermen-Engineering	Altfelder Straße 248c, 47475 Kamp Lintfort www.ermen.engineering.de info@ermen-engineering.de	Publicly appointed and sworn expert accredited by the Niederrhein Chamber of Industry and Commerce for CHP with packaged cogeneration systems.
ETW Energietechnik GmbH	Ferdinand-Zeppelin-Straße 19, 47445 Moers www.etw-energie.de info@etw-energie.de	ETW is a manufacturer of cogeneration units with outputs of 400 to 4,600 kW and bio-methane plants used to convert biogas to natural gas using the PSA process.

Companies	Contact	Description
eueco GmbH	Corneliusstraße 12, 80469 München www.eueco.de info@eueco.de	Our IT solutions and services enable you to offer standardised civic crowdfunding tailored to your respective (efficiency) projects.
EUtech Scientific Engineering GmbH	Dennwartstraße 25-27, 52068 Aachen www.eutech-scientific.de info@eutech-scientific.de	We engineer and optimize heterogeneous energy systems that combine innovative heating, cooling and power supply as well as storage technologies.
Fachzentrum für Kraft-Wärme-Kopplung - SenerTec Center NRW Süd GmbH	Blumgasse 2, 52156 Monschau www.senertec-center-nrw-sued.de info@senertec-center-nrw-sued.de	Our specialist CHP centre of expertise turns all interested parties and customers into enthusiastic CHP fans thanks to our convincing advice, excellent work and first-class service.
FAHRENHEIT AG	Zscherbener Landstraße 17, 6126 Halle (Saale) www.fahrenheit.cool, info@fahrenheit.cool	For more than a decade, the adsorption chilling pioneer has been developing and producing energy efficient and particularly powerful chilling units for small and medium cooling requirements.
FDBR e.V. - Fachverband Anlagenbau	Sternstraße 36, 40479 Düsseldorf www.fdbbr.de info@fdbbr.de	The FDBR (professional body for plant engineering) pools the interests of more than 180 companies in the plant engineering segment for the energy, environmental and process industry. We support technical innovations and help develop future-proof solutions.
Firma Werner Stöbener	Wintgenstraße 1, 45239 Essen www.stoebener.de werne@stoebener.de	Stöbener is a workshop in the plumbing, heating and air conditioning sector. It was established in 1927 and has a staff of 41. We work on heating and plumbing installations and also have an electrical department. We are a distributor of Senertec and Viessmann gas engine-driven heating systems.
Gas- und Wärme-Institut Essen e.V.	Hafenstraße 101, 45356 Essen www.gwi-essen.de info@gwi-essen.de	The GWI is an established research institute that is shaping the energy issues of the future. Its main areas of focus include gas composition and gas application technologies (CHP).
GASAG Contracting GmbH	Im Teelbruch 55, 45219 Essen www.gasag-contracting.de info-essen@gasag-contracting.de	Our range of services includes the preparation and execution of energy contracting projects, i.e. the planning, construction, financing and operation of energy generation systems with subsequent production and delivery of useful energy in the form of heat, steam, power, cold and other media.
GETEC heat & power AG	Albert-Vater-Straße 50, 39108 Magdeburg www.getec-heat-power.de heat-power@getec.de	GETEC heat & power AG is a market leader in contracting and supplies industrial enterprises and complex large-scale properties with heat, cold, steam and power.
GfE mbH / Berges Gesellschaft für Energieeffizienz	Donaustraße 7, 48619 Heek www.gfe-nrw.de info@gfe-nrw.de	GfE mbH supplies, installs and maintains packaged cogeneration units rated 4 to 50 kW _e . The systems are operated with natural gas/LPG or vegetable oil.
Giallosolar GmbH	Birkenhof 7, 47638 Straelen www.giallosolar.de info@giallosolar.de	We produce e.g. a complete yield calculation with load profile for accurate representation of private power consumption including a proposed solution to reduce energy and electricity costs.
Groschopp AG	Greefsallee 49, 41747 Viersen www.groschopp.de info@groschopp.de	Groschopp AG is a leading company in the electrical drive technology sector. The servo, commutator, induction or brushless designs are the common denominator for Groschopp electric motors.
Hottgenroth Software GmbH und Co. KG	Von-Hünefeld-Straße 3, 50829 Köln www.hottgenroth.de info@hottgenroth.de	Hottgenroth/ETU develops commercial, technical and CAD software, chimney sweep software and web applications for areas such as energy efficiency, mainstream and ancillary building trades and building services planning and design
ib1 ingenieurberatung GmbH	Lochbachstraße 37, 58239 Schwerte www.ib-1.de mail@ib-1.de	With our more than 20 years of experience we will steer you through the energy-specific legal and technical requirements when procuring and operating your CHP unit.
IELO Innovative Energielösungen Oldenburg GmbH	Im Technologiepark 4, 26129 Oldenburg www.kehag-energiehandel.de energiehandel@kehag.de	IELO GmbH offers a leasing & operating model as an all-inclusive 'peace of mind' package. +no-obligation profitability check + planning and technical implementation +operations management + financing
Indop Combined Heat Power GmbH	Leonard-Weiss-Straße 1, 73037 Göppingen www.c-h-p.eu info@c-h-p.eu	INDOP (Gorenje Group) is a key international manufacturer of small-scale CHP units in the range 6 to 20 kW _e . Combined Heat Power GmbH in Göppingen is the general distributor for INDOP.
infas enermetric Consulting GmbH	Hüttruper Heide 9, 48268 Greven www.infas-enermetric.de info@infas-enermetric.de	Design and planning of CHP solutions and heating networks; elaboration of technical-commercial solutions for energy supply; support with the design and selection of operator and financing models.
Ingenieurbüro Gassen	Im Buchenkamp 68, 51109 Köln www.ibgassen.de mail@ibgassen.de	Ing. Büro Gassen offers decades of experience in the entire technical building services sector, more than 35 planned packaged CHP units, electricity for renters (produced locally, not from the grid) contracting, maintenance and life cycle

Companies	Contact	Description
Ingenieurbüro Holger Hantel	An der Nettkull 36, 46509 Xanten www.ibhoha.de service@ibhoha.de	We are a creative engineering consultancy specialised and licensed for consultation, services and problem-solving for all aspects of energy efficiency and funding procurement.
InvenSor GmbH	Nußbaumweg 7-9, 6886 Lutherstadt Wittenberg www.invensor.com info@invensor.de	InvenSor develops and produces adsorption chillers for an output of up to 300 kW. The waste heat e.g. from small-scale CHPs and industrial processes serves as the drive energy for cooling. Pure water is used as refrigerant.
itb-energiewirtschaft	Beeckstraße 75, 46149 Oberhausen www.itb-energiewirtschaft.de info@itb-energiewirtschaft.de	We are a leading engineering firm in the energy industry and help you reduce energy costs.
Jürgen Hohnen GmbH Wärme-Wasser-Umwelt	Industrieparkstraße 4, 52525 Heinsberg www.juergenhohnen.de info@juergenhohnen.de	As a specialist company we serve customers who are interested in fuel cells, CHP technology, electricity storage and electro-mobility. Every system can also be leased as a full-service package.
Kirsch GmbH	Biewerer Straße 231, 54239 Trier www.kirsch-homeenergy.de info@kirsch-energie.de	For more than six decades we have been developing technical solutions to the highest standard. One of our core areas of expertise nowadays is the development, manufacture and sale of electricity generators for a wide range of applications.
Koldehoff	Bawinkeler Straße 17, 49838 Langen www.koldehoff.de info@koldehoff.de	For more than 15 years, the Paul Koldehoff company has been working in CHP and has installed more than 450 systems with electrical outputs of between 5 and 800 kW.
Kombiplan GmbH & Co. KG	Stadtmauer 11, 59872 Meschede www.kombiplan.net info@kombiplan.net	Kombiplan is a leading engineering services provider for building services equipment, energy technology, energy consulting and energy concepts as well as energy management systems.
Kraftwerk Kraft- Wärme-Kopplung GmbH	Zur Bettfedernfabrik 1, 30451 Hannover www.kwk.info, mail@kwk.info	For 20 years, Kraftwerk has been developing, producing, maintaining and selling cogeneration modules with condensing technology up to 50 kWe in six output variants. Full-service agreements with availability guarantee.
Kraftwirte - Stadtwerke Lemgo GmbH	Bruchweg 24, 32657 Lemgo www.kraftwirte.de info@kraftwirte.de	Kraftwirte are your partners for all energy services at Stadtwerke Lemgo, whether contracting, energy management or operational optimisation.
Lehrstuhl für Umweltverfahrenstechnik und Anlagentechnik (LUAT)	Leimkugelstraße 10, 45141 Essen www.uni-due.de/luat luat@uni-due.de	The department of the University of Duisburg-Essen is focussed on energy and process engineering, waste and residue treatment, pollutant separation, environmental measuring technology and environmental services.
lion energy GmbH & Co. KG	Zur Hammerbrücke 9, 59939 Olsberg www.powerblock.eu info@powerblock.eu	User-friendly and reliable: The Lion Powerblock combines a low-cost and environmentally-friendly energy supply with extremely user-friendly technology.
Mainzer Wärme GmbH	Rheinallee 41, 55118 Mainz www.mainzer-waerme.de info@mainzer-waerme.de	We are your primary point of contact for heating. As part of the Stadtwerke Mainz group of companies and develop customised solutions for our clients that are vendor-neutral.
medl GmbH	Burgstraße 1, 45476 Mülheim an der Ruhr www.medl.de service@medl.de	We supply natural gas, electricity and heat to Mülheim residents. We are also committed to issues of energy efficiency and the conservation of resources. And that's why we continue to promote the ecological and cost-effective handling of energy using modern technologies.
Montag & Rappenhöner GmbH	Industriestr. 3, 51515 Kürten www.montag-rappenhoener.de info@montag-rappenhoener.de	Heating and plumbing firm for renewable energies
MOVE EnergieConcept GmbH	Greefsallee 49, 41747 Viersen www.energieconcept.eu info@energieconcept.eu	Elaboration and implementation of holistic energy concepts. Our key objective is to significantly increase energy efficiency with state-of-the-art packaged CHP units and in this way improve economic efficiency and reduce CO ₂ emissions.
NETZ Ingenieurbüro GmbH	Hansestraße 14, 48477 Riesenbeck www.netz-gmbh.eu info@netz-gmbh.eu	Innovative design of energy concepts, cost-efficient implementation and sustainable operation. NETZ shows ways out of the energy labyrinth. A holistic approach to production, efficiency and use.
NRW.BANK	Kavalleriestraße 22, 40213 Düsseldorf www.nrwbank.de/kwk info@nrwbank.de	NRW.BANK is the development bank for North Rhine Westphalia (NRW) and is owned by the state of NRW. It supports companies, local authorities and individuals in NRW with the entire range of products for funding and financing. In this context NRW.BANK operates in a competitively neutral fashion as a partner to banks and savings institutions.
Partenum Energiekonzepte GmbH	Mühlenkamp 31, 22303 Hamburg www.partenum.de v.feddersen@partenum.de	Partenum Energiekonzepte GmbH develops intelligent energy concepts and financing models without equity investment for commercial and industrial customers.

Companies	Contact	Description
PKF Fasselt Schlage Partnerschaft mbB	Schifferstraße 210, 47059 Duisburg www.pkf-fasselt.de duisburg@pkf-fasselt.de	PKF Fasselt Schlage offers a range of services including: profitability analysis and design of distributed energy generation projects, design of off-grid models, direct marketing.
PRIMAGAS Energie GmbH & Co.KG	Luisenstraße 113, 47799 Krefeld www.primagas.de info@primagas.de	PRIMAGAS Energie GmbH & Co. KG is one of the leading suppliers of liquefied gas in Germany. For more than 60 years we have been supplying households and businesses all over the country with off-grid energy.
Propan Rheingas GmbH & Co. KG	Fischenicher Straße 23, 50321 Brühl www.rheingas.de johannes.partz@rheingas.de	Rheingas develops independent intelligent energy supply solutions over the entire service chain, from planning to construction and the supply and maintenance of facilities.
RCN Ingenieurbüro	Dürenerstraße 3, 45147 Essen www.nrw-energieberatung.com info@nrw-energieberatung.com	Energy-efficient building design for new builds and refurbishments
REHAU AG + Co	Universitätsstraße 140, 44799 Bochum www.waermewende.info olaf.kruse@rehau.com	We support you from the concept stage to completed local heating network. As well as pre-insulated piping systems, REHAU offers a comprehensive free planning service and provides professional tools where required.
Remeha GmbH	Rheiner Straße 151, 48282 Emsdetten www.remeha.de info@remeha.de	We are a growing independent subsidiary of an internationally operating company for heating products with Germany-wide distribution.
RheinEnergie AG	Parkgürtel 24, 50823 Köln www.rheinenergie.com service@rheinenergie.com	RheinEnergie AG is one of the largest municipal utilities in Germany and is based in Cologne. It is involved in all phases and areas of energy supply, both regionally and throughout Germany.
Rödl & Partner GbR	Im Zollhafen 18, 50678 Köln www.roedl.com philip.cossmann@roedl.com	From our locations in Cologne, Nuremberg and Munich, our team of 200 specialists supports our clients with tax, legal and business issues relating to the energy industry.
RWE International SE / RWE Netzservice	Friedrichstraße 60, 57072 Siegen www.rwennetzservice.com netzservice@rwe.com	RWE Netzservice is one of the largest providers of network services: Planning, project development, construction, operation and maintenance of networks and systems of all voltage levels and pressure stages.
RWTH Aachen - Institut für Hochspannungstechnik	Schinkelstraße 2, 52056 Aachen www.ifht.rwth-aachen.de matrose@ifht.rwth-aachen.de	In the distributed energy systems team we develop operational strategies for these new facilities and storage systems operated as stand-alone units or in networks (virtual power plants).
RWTH Aachen - Lehrstuhl für Reaktorsicherheit und -technik	Kackertstraße 9, 52072 Aachen www.lrst.rwth-aachen.de schiffers@lrst.rwth-aachen.de	The Department for Reactor Safety and Technology is conducting research into renewable energies and other energy industry issues.
Schnaitmann GmbH	Wielandstraße 8, 46045 Oberhausen www.schnaitmann-online.de info@schnaitmann-online.de	Planning and installation of heating and CHP systems including profitability analyses, application procedures and maintenance
Schröder Abgastechnologie	Hemsack 11-13, 59174 Kamen www.schraeder.com kamen@schraeder.com	The Schröder system for heat recovery from industrial exhaust and waste gases is a comprehensive system comprising consultancy, planning and plant construction as well as hydraulic, electrical and waste gas-side integration.
Senertec Center Heek GmbH	Benzstraße 22, 48619 Heek www.derdachs.com vertrieb@senertec-center-heck.de	With more than 32,000 „Made in Germany“ systems sold, our „Dachs“ (badger) mini cogeneration unit is No. 1 on the European market. The team from SenerTec Center Heek, one of 29 service centres throughout Germany, is your specialist for CHP.
SenerTec Center Ruhr GmbH	Lothringer Allee 2, 44805 Bochum www.senertec-center-ruhr.de info@senertec-center-ruhr.de	With more than 33,000 cogeneration units installed, SenerTec is Europe's favourite CHP.
SenerTec Kraft-Wärme-Energiesysteme GmbH	Carl-Zeiss-Straße 18, 97424 Schweinfurt www.derdachs.de, info@senertec.de	SenerTec is the market leader for distributed small-scale power plants. Since 1996 SenerTec has been producing and marketing Europe's most successful mini cogeneration system under the brand name „Dachs“ (badger).
Senertec-Service Bochum	Drusenbergstraße 86, 44789 Bochum www.senertec-service.de info@senertec-service.de	The „Dachs“ is Europe's favourite small-scale CHP system, with more than 33,000 units installed.
SES Energiesysteme GmbH	Schimmelbuschstraße 9f, 40699 Erkrath www.ses-energiesysteme.com info@ses-energiesysteme.com	Manufacturer and service provider for highly efficient cogeneration units rated 50 to 4,500 kW. Compact modules, containers, plant engineering. With natural gas and biogas. Locations in Berlin, Düsseldorf, Hamburg, Leipzig and Munich.
SES Energiesysteme GmbH	Eichenstraße 3b, 12435 Berlin www.ses-energiesysteme.com info@ses-energiesysteme.com	Manufacturer and service provider for highly efficient cogeneration units. 50 to 4,500 kW. Compact modules, containers, plant engineering. With natural gas and biogas. Locations in Berlin, Düsseldorf, Hamburg, Leipzig and Munich.

Companies	Contact	Description
SMART-TEC-stwh	Grenzweg 18, 44623 Herne www.smart-tec-stwh.de info@smart-tec-stwh.de	The service brand on the heating market offers a range of innovative and efficient technologies, renewable energies in combination with financing and a 24-hour service for the facilities..
SOKRATHERM GmbH Energie- und Wärmetechnik	Milchstraße 12, 32120 Hiddenhausen www.sokratherm.de info@sokratherm.de	Manufacturer of compact cogeneration modules in the output range of 50 - 500 kW. Since the company was established in 1977 around 1,500 compact cogeneration modules have been produced in various designs and delivered worldwide.
SOKRATHERM GmbH Niederlassung Nordhausen	Helmestraße 20, 99734 Nordhausen www.sokratherm.de info@sokratherm.de	Manufacturer of compact cogeneration modules in the output range of 50 - 500 kW. Since the company was established in 1977 around 1,500 compact cogeneration modules have been produced in various designs and delivered worldwide.
SOKRATHERM GmbH Vertriebsbüro Nord	Osterstraße 58, 20259 Hamburg www.sokratherm.de info@sokratherm.de	Manufacturer of compact cogeneration modules in the output range of 50 - 500 kW. Since the company was established in 1977 around 1,500 compact cogeneration modules have been produced in various designs and delivered
Solarexpert GmbH - Unit Blockheizexpert	Viersenerstraße 11, 40549 Düsseldorf www.blockheizexpert.de info@blockheizexpert.de	Unit Blockheizexpert was founded in 2013 by the managing directors of Solarexpert GmbH - Markus Beinhauer & Thorsten Kempkens. Blockheizexpert sells cogeneration units to commercial and industrial enterprises in the greater Düsseldorf area and NRW.
SOLIDpower GmbH	Boos-Fremery-Straße 62, 52525 Heinsberg www.solidpower.com bluegen@solidpower.com	SOLIDpower is a leading manufacturer of fuel cell micro power plants. The products feature very high electrical efficiency and are manufactured in NRW.
Stadt Essen - Klimaagentur	Rathaus Porscheplatz, 45127 Essen www.klimawerkstadtessen.de Klimaagentur@essen.de	The Climate Agency of the City of Essen pools local energy service offers and provides an overview of qualified professionals and companies in the „KWK-Marktplatz Essen“ (CHP marketplace Essen).
Stadtwerke Düsseldorf	Höherweg 100, 40233 Düsseldorf www.swd-ag.de Nguettler@swd-ag.de	For more than 140 years, municipal utility Stadtwerke Düsseldorf has been supplying the city with power and water. And we are going to devote all our energies to looking after your requirements in the future too.
Stadtwerke Essen	Rüttenscheiderstraße 27-37, 45128 Essen www.stadtwerke-essen.de info@stadtwerke-essen.de	EssenWärme - complete service package from planning, financing, installation, maintenance, 24-hour service, energy supply through to heating cost billing.
STAWAG Energie GmbH	Uersfeld 24, 52072 Aachen www.stawag-energie.de info@stawag-energie.de	Since 2003, STAWAG Energie has been an innovative renewable energy company and as a strong partner offers planning, development and financing of CHP systems including operational management and contracting.
STEAG Energy Services GmbH	Rüttenscheiderstraße 1-3, 45128 Essen www.steag-energyservices.com energyservices@steag.com	Our range of services includes planning, construction support, operation and optimisation of energy generation systems from project management through IT solutions and cost optimisation.
STEAG Fernwärme GmbH	Huyssenallee 100, 45128 Essen www.steag-fernwaeirme.de fernwaeirme@steag.com	The biggest district heating supplier in NRW. Supply of district heating from CHP units for apartments, public buildings, hospitals, swimming pools, industrial and commercial enterprises in Bottrop, Essen and Gelsenkirchen.
STEAG New Energies GmbH	St. Johanner Straße 101-105, 66115 Saarbrücken www.steag-newenergies.com ruediger.sass@steag.com	STEAG New Energies specialises in distributed, customised energy solutions based on efficient and sustainable concepts. Our customers are local authorities, municipal utilities, industry and large properties.
SWB GmbH	Karl-Hermann Straße 14, 45701 Herten www.swb-herten.de khh@swb-herten.de	We design and install building services equipment. We can advise you about the wide range of options for energy-saving technologies in combination with building services designed for a healthy built environment.
SWK-Energiezentrum E²	Reinartzstraße 49, 47805 Krefeld www.e2.hsnr.de silke.boerner@hs-niederrhein.de	At the SWK-Energiezentrum E2, projects with a technical or commercial energy focus are implemented by professors and other staff from various disciplines.
ThermoPlus WärmeDirekt Service GmbH	Bungertstraße 27, 47053 Duisburg www.thermoplus.de info@thermoplus.de	ThermoPlus WärmeDirektService GmbH offers customised service packages from planning to realisation and servicing of energy systems.
Trianel GmbH	Lombardenstraße 28, 52070 Aachen www.trianel.com info@trianel.com	We offer our partners expertise in production, trading and sales, we pool a range of different activities and play an active role in shaping energy markets.
TÜV Nord Systems GmbH & Co. KG	Langemarckstraße 20, 45141 Essen www.tuev-nord.de gdreier@tuev-nord.de	TÜV NORD offers services for CHP remuneration/environmental assessors, location and emissions, safety and quality in construction and operation and seminars for operator training.

Companies	Contact	Description
TÜV Rheinland Industrie Service GmbH	Am Grauen Stein 33, 51105 Köln www.tuv.com juergen.reinhardt@de.tuv.com	The industrial services division is the strongest pillar of TÜV Rheinland and comprises e.g. the business units mechanical engineering, electrical and building services technology, supply chain services, building technology, energy and environment and project management.
Tuxhorn Blockheizkraftwerke GmbH	Röntgenstraße 33, 46325 Borken www.tuxhorn-blockheizkraftwerke.de info@tuxhorn-blockheizkraftwerke.de	Tuxhorn is an experienced manufacturer of natural gas and fuel oil-fired cogeneration units with electrical outputs of 30 - 240 kW. Please don't hesitate to contact us by phone or arrange a personal consultation.
Tyczka Totalgaz GmbH	Blumenstraße 5, 82538 Geretsried www.tytogaz.de info@tytogaz.de	Tyczka Totalgaz is one of Germany's leading specialists for liquefied gas. It is a joint venture between two partners, Tyczka Beteiligung Holding, Geretsried and TOTAL Deutschland.
Universität Duisburg-Essen Lehrstuhl Energietechnik	Lotharstraße 1, 47057 Duisburg www.uni-due.de/energietechnik verheyen@uni-due.de	At the Department of Energy Technology, CHP is a major component of research and teaching. The research activities focus on the energy efficiency of energy systems.
Vaillant Deutschland GmbH & Co. KG	Berghauser Straße 40, 42859 Remscheid www.vaillant.de info@vaillant.de	Vaillant is one of the leading manufacturers on the global heating technology market. Its products range from innovative CHP systems, heat pumps, pellet heaters and ventilation systems through solar heating to highly efficient gas-fired condensing technology.
VDI-Gesellschaft Energie und Umwelt	VDI-Platz 1, 40468 Düsseldorf www.vdi.de/geu geu@vdi.de	VDI-GEU produces guidelines on CHP topics e.g. VDI 4655, VDI 4656 and VDI 3985, publishes the status report „Micro CHP“ and issues statements on energy policy.
Verbraucherzentrale NRW	Mintropstraße 27, 40215 Düsseldorf www.vz-nrw.de/energieberatung energie@vz-nrw.de	As part of an energy consultation in the consumer's home the question of whether it is worth investing in alternative heating technologies, for example a mini cogeneration system, can be investigated if required.
VfW Verband für Wärmelieferung e.V.	Lister Meile 27, 30161 Hannover www.energiecontracting.de hannover@vfw.de	The role of the VfW is to support the expansion of contracting, train companies to qualify as energy suppliers and maintain professional standards.
Viessmann Deutschland GmbH	Viessmannstraße 1, 35108 Allendorf (Eder) www.viessmann.de info@viessmann.com	Viessmann's complete range offers heating systems for all outputs and applications. CHP systems with electrical outputs of 750 W to 50 MW, biogas facilities and cooling technology.
VIK Verband der industriellen Energie- und Kraftwirtschaft e. V.	Richard-Wagner-Straße 41, 45128 Essen www.vik.de info-essen@vik.de	For more than 60 years, the VIK has been the alliance of industrial and commercial energy customers in Germany. Our mission is to achieve equality of opportunity in international competition through a competitive and secure energy supply.
VKU Verband kommunaler Unternehmen e.V. - Landesgruppe NRW	Brohler Straße 13, 50968 Köln www.vku.de info@vku.de	The NRW branch of the VKU represents more than 330 companies of the energy, water/wastewater, waste disposal and telecommunications industry in NRW.
WERTHER energietechnik & management	Sittardsberger Allee 130, 47249 Duisburg www.wetum.net, tw@wetum.net	We supply, install and take care of cogeneration facilities rated 4 - 75 kW. Our range of services covers complete project execution to efficient operation of the systems.
Westfalen AG	Industrieweg 43, 48155 Münster www.westfalen-ag.de g.grimminger@westfalen-ag.de	The Westfalen Group operates internationally in the energy industry as a technology company. In the energy supply sector the company markets CHP systems with its own subsidy scheme.
WHSE GmbH & Co. KG	Wallhausenstraße 51-53, 57072 Siegen www.whse.de info@whse.de	As a specialist heating contractor, WHSE has been supplying and installing highly efficient CHP units since 2009. Since 2013, we have been a premium partner of European market leader EC POWER in sales and services..
Winters-Energie	Croswick 1, 48691 Vreden www.winters-energie.de info@winters-energie.de	We provide consultancy and only build cogeneration systems where they pay off for the investor, including as a contracting model.
WiRo Energie&Konnex Consulting GmbH	Theaterstraße 30-32, 52062 Aachen www.wiro-consultants.com info@wiro-consultants.com	WiRo Energie&Konnex Consulting GmbH is an independent consulting firm specialising in efficient energy use.
Zentrum für BrennstoffzellenTechnik, ZBT GmbH	Carl-Benz-Straße 201, 47057 Duisburg www.zbt-duisburg.de info@zbt-duisburg.de	ZBT GmbH is a recognised research establishment for the development and optimisation of hydrogen generators, fuel cells and storage technologies e.g. for use in CHP.
Zeppelin Power Systems GmbH & Co.KG	Zeppelinstraße 2a, 28832 Achim www.zeppelin-powersystems.de zps.achim@zeppelin.com	Zeppelin Power Systems is the official partner of Caterpillar for Cat, MaK and EMD engines and a leading vendor of drive and energy systems.

Imprint

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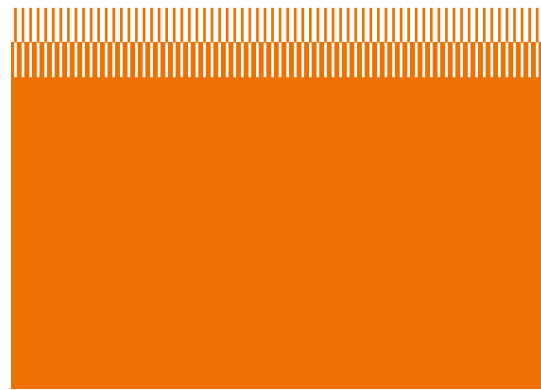
As of

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