

## Lists of currently collected cogeneration case studies

Status: 7<sup>th</sup> December 2010

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## Currently collected case studies according to the region

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Nr.	Country	Name	Sector	Technology	Fuel	Capacity		Financing	City	Specialties
						MW <sub>el</sub>	MW <sub>th</sub>			
<b>Eastern Europe</b>										<a href="#">Back to main list</a>
1	Poland	<a href="#">CHP plant Siekierki</a>	District heating	Steam turbine	Coal & Biomass	622	1.193	Own, loans	Warsaw	Retrofit of a district heating CHP
2	Slovenia	<a href="#">Boarding school Novo mesto</a>	Public sector	Gas engine	Natural gas	0,05	0,081	Own, loans	Novo mesto	Huge heating potential in public sector
3	Czech Republic	<a href="#">Block of flats Troja</a>	Residential sector	Gas engine	Natural gas	0,3	0,45	Own, investment subsidy	Prague	CHP output power regulated according to the electricity consumption
<b>Northern Europe</b>										<a href="#">Back to main list</a>
1	Belgium	<a href="#">Belgomilk Langemark</a>	Food and beverage	Gas turbine	Natural gas & Biogas	7,35	13,8	Own, loans	Langemark	Heat entirely used in a dairy plant
2	United Kingdom	<a href="#">Museum of Liverpool</a>	Public sector	Gas & biodiesel engine	Natural gas & Biodiesel	2,3	2,4	TPF, contracting	Liverpool	New building, TPF
3	Ireland	<a href="#">Trigeneration</a>	Manufacturing	Gas engine	Natural gas	2,95	2,05	Own	-	Trigeneration
4	Denmark	<a href="#">Snedsted Sarmveark</a>	District heating	Gas engine	Natural gas	3,047	4,075	Own	Snedsted	Retrofit of a district heating CHP
5	Ireland	<a href="#">Baillieboro CHP plant, Lakeland Dairies</a>	Food and beverage	Gas turbine	Natural gas	5	18,5	TPF	Baillieborough	Problems with connection to the grid
6	Belgium	<a href="#">Hotel Crowne Plaza</a>	Hospitality sector	Gas engine	Natural gas	0,14	0,207	Own	Brussels	Extension of a boiler room

Nr.	Country	Name	Sector	Technology	Fuel	Capacity		Financing	City	Specialties
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7	United Kingdom	<a href="#">De Clare Court, Haverfordwest</a>	Residential sector	Gas engine	Natural gas	0,011	0,025	Own	Haverfordwest	New building with flats for older people
8	Belgium	<a href="#">Dow Corning</a>	Production	Gas engine	Natural gas	1	1,2	Contracting	Brussels	Electricity & heat used on-site only
9	Belgium	<a href="#">Ecopower</a>	Public sector	Biofuel engine	Rapeseed oil	0,25	0,257	TPF	Eeklo	Administration building
10	Belgium	<a href="#">Docent Katholieke Hogeschool Kempen, "Hortipower"</a>	Education	Gas engine	Natural gas	8,6	9,542	Loans	Geel	Greenhouse heating, CO <sub>2</sub> nutrition for tomato plants
11	Belgium	<a href="#">Mini CHP for e-mobility</a>	Production	Gas engine	Natural gas	0,012	0,024	Own	Evergem	Demo CHP unit for charging electric cars
12	Belgium	<a href="#">Belgium supreme court house</a>	Public sector	Gas engine	Natural gas	0,462	0,611	Contracting	Brussels	Renovation of a boiler room
13	United Kingdom	<a href="#">Pricewaterhouse Coopers, 7 More</a>	Professional services	Biodiesel engine	Biodiesel	0,8	0,83	Own	London	Trigeneration, dual level system, first system of this kind in UK
14	United Kingdom	<a href="#">Royal Victoria Infirmary Energy Centre</a>	Health sector	Gas engine	Natural gas	3,8	5,5	TPF	Newcastle-upon-Tyne	Renovation of a boiler room in a hospital
15	Belgium	<a href="#">Spa Monopole</a>	Food and beverage	Gas engine	Natural gas	2	2,4	Own	Spa	CHP in a factory, change of technology for bottle washing machines
16	United Kingdom	<a href="#">Veolia Environmental Services, Sheffield District Energy Network</a>	Waste management and recycling	Steam turbine	Municipal solid waste	21	40	Own	Sheffield	Heat used for district heating; high capital costs of the infrastructure are problem
17	Germany	<a href="#">Warsteiner Brauerei</a>	Food and beverage	Gas engine	Natural gas	2,3	2,3	Own	Warstein	Electricity & heat used on-site only

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						MW <sub>el</sub>	MW <sub>th</sub>			
18	Finland	<a href="#">UPM Kymi Recovery Island</a>	Pulp and paper	Steam turbine	Black liquor	110	630 t/h	Own, loans	Kuusankoski	Operation close to the zero carbon footprint
19	United Kingdom	<a href="#">Milton Keynes District Energy Network</a>	District heating and cooling	Gas engine	Natural gas	6,094	6,346	Loans, TPF	Milton Keynes	District energy scheme – electricity, heating, hot water, cooling
20	Germany	<a href="#">MVR Rugenberger Damm Hamburg</a>	Waste management	Steam turbine	Municipal solid waste	29	70	Own, KfW-loans	Hamburg	Production of electricity, district heat and process steam
<b>South-Eastern Europe</b>										<a href="#">Back to main list</a>
1	Greece	<a href="#">CHP system in educational - athletic - conference facilities in Athens</a>	Education	Gas engine	Natural gas	0,34	0,68	TPF	Athens	CHP installation with the aim to reduce energy consumption
2	Greece	<a href="#">Hotel Manthos</a>	Hospitality sector	Gas engine	Liquid gas	0,0094	0,024	Own	Mountain Pilion	Replacement of the old boiler for sanitary hot water
3	Greece	<a href="#">Hotel Esperia</a>	Hospitality sector	Gas engine	Natural gas	0,0047	0,012	Own	Thessaloniki	Replacement of the old boiler for sanitary hot water
4	Greece	<a href="#">Trigeneration at Mitera hospital</a>	Health sector	Gas engine	Natural gas	0,49	0,89	Own, investment subsidy	Athens	First trigeneration ever installed in a Greek hospital
5	Cyprus	<a href="#">Andriana Biogas CHP Plant</a>	Waste management + electricity production	Gas engine	Biogas	0,5	0,5	Own, loans	Xylotymbou	Use of waste from pig farm to minimize transportation costs + sale of electricity

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6	Greece	<a href="#">Aegean &amp; Egnatia Hotels</a>	Hospitality sector	Gas engine	Natural gas	0,04	0,086	Own, investment subsidy	Thessaloniki	CHP co-operates with solar collectors – among the first installations of this kind in Greece
7	Cyprus	<a href="#">Tersefanou Biogas CHP Plant</a>	Waste management + electricity production	Gas engine	Biogas	0,5	0,5	Own, loans	Tersefanou	Use of waste from pig farm to minimize transportation costs + sale of electricity
8	Greece	<a href="#">Thermie Serres S.A.</a>	District heating	Gas engine	Natural gas	16	16,92	Own, loans, investment subsidy	Serres	New district heating plant
9	Greece	<a href="#">Psyttalia</a>	Wastewater treatment	Gas turbine	Natural gas	12,9	17,3	European funding	Psyttalia island	Heat is used entirely for drying the sludge, electricity covers most of the island's needs
<b>South-Western Europe</b>										<a href="#">Back to main list</a>
1	Spain	<a href="#">Hospital Central de la Defensa 'Gomez Ulla'</a>	Health sector	Gas engine	Natural gas	5,8	6,1	Own, loans	Madrid	Fully covered electric and heat demands of hospital + sale of electricity
2	Spain	<a href="#">Uipsa Cogeneration Plant</a>	Paper production	Combined cycle	Natural gas	33	52,6 t/h	Loans	Barcelona	Replacement of the old CHP plant
3	Italy	<a href="#">Hypo Alpe Adria Trigeneration Plant</a>	District heating and cooling	Gas engine	Natural gas	1,065	1,268	Own	Tavagnacco, Udine	Heat and cool for a residential area with several public and private buildings

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Nr.	Region	Country	Name	Technology	Fuel	Capacity		Financing	City	Specialties
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<b>Industry</b>										
										<a href="#">Back to main list</a>
1	N Europe	Belgium	<a href="#">Belgomilk Langemark</a>	Gas turbine	Natural gas & Biogas	7,35	13,8	Own, loans	Langemark	Heat entirely used in a dairy plant
2	N Europe	Belgium	<a href="#">Dow Corning</a>	Gas engine	Natural gas	1	1,2	Contracting	Brussels	Electricity & heat used on-site only
3	N Europe	Belgium	<a href="#">Mini CHP for e-mobility</a>	Gas engine	Natural gas	0,012	0,024	Own	Evergem	Demo CHP unit for charging electric cars
4	N Europe	Belgium	<a href="#">Spa Monopole</a>	Gas engine	Natural gas	2	2,4	Own	Spa	CHP in a factory, change of technology for bottle washing machines
5	N Europe	Finland	<a href="#">UPM Kymi Recovery Island</a>	Steam turbine	Black liquor	110	630 t/h	Own, loans	Kuusankoski	Operation close to the zero carbon footprint
6	N Europe	Germany	<a href="#">Warsteiner Brauerei</a>	Gas engine	Natural gas	2,3	2,3	Own	Warstein	Electricity & heat used on-site only
7	N Europe	Ireland	<a href="#">Trigeneration</a>	Gas engine	Natural gas	2,95	2,05	Own	-	Trigeneration
8	N Europe	Ireland	<a href="#">Bailieboro CHP plant, Lakeland Dairies</a>	Gas turbine	Natural gas	5	18,5	TPF	Bailieborough	Problems with connection to the grid
9	SW Europe	Spain	<a href="#">Uipsa Cogeneration Plant</a>	Combined cycle	Natural gas	33	52,6 t/h	Loans	Barcelona	Replacement of the old CHP plant

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						MW <sub>el</sub>	MW <sub>th</sub>			
<b>Waste management</b>										<a href="#">Back to main list</a>
1	SE Europe	Cyprus	<a href="#">Andriana Biogas CHP Plant</a>	Gas engine	Biogas	0,5	0,5	Own, loans	Xylotymbou	Use of waste from pig farm to minimize transportation costs + sale of electricity
2	SE Europe	Cyprus	<a href="#">Tersefanou Biogas CHP Plant</a>	Gas engine	Biogas	0,5	0,5	Own, loans	Tersefanou	Use of waste from pig farm to minimize transportation costs + sale of electricity
3	N Europe	Germany	<a href="#">MVR Rugenberger Damm Hamburg</a>	Steam turbine	Municipal solid waste	29	70	Own, KfW-loans	Hamburg	Production of electricity, district heat and process steam
4	SE Europe	Greece	<a href="#">Psyttalia</a>	Gas turbine	Natural gas	12,9	17,3	European funding	Psyttalia island	Heat is used entirely for drying the sludge, electricity covers most of the island's needs
5	N Europe	United Kingdom	<a href="#">Veolia Environmental Services, Sheffield District Energy Network</a>	Steam turbine	Municipal solid waste	21	40	Own	Sheffield	Heat used for district heating; high capital costs of the infrastructure are problem
<b>District heating</b>										<a href="#">Back to main list</a>
1	N Europe	Denmark	<a href="#">Snedsted Sarmeveark</a>	Gas engine	Natural gas	3,047	4,075	Own	Snedsted	Retrofit of a district heating CHP
2	SE Europe	Greece	<a href="#">Thermie Serres S.A.</a>	Gas engine	Natural gas	16	16,92	Own, loans, investment subsidy	Serres	New district heating plant

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3	SW Europe	Italy	<a href="#">Hypo Alpe Adria Trigeneneration Plant</a>	Gas engine	Natural gas	1,065	1,268	Own	Tavagnacco, Udine	Heat and cool for a residential area with several public and private buildings
4	E Europe	Poland	<a href="#">CHP plant Siekierki</a>	Steam turbine	Coal & Biomass	622	1.193	Own, loans	Warsaw	Retrofit of a district heating CHP
5	N Europe	United Kingdom	<a href="#">Milton Keynes District Energy Network</a>	Gas engine	Natural gas	6,094	6,346	Loans, TPF	Milton Keynes	District energy scheme – electricity, heating, hot water, cooling
<b>Public sector</b>										<a href="#">Back to main list</a>
1	N Europe	Belgium	<a href="#">Ecopower</a>	Biofuel engine	Rapeseed oil	0,25	0,257	TPF	Eeklo	Administration building
2	N Europe	Belgium	<a href="#">Belgium supreme court house</a>	Gas engine	Natural gas	0,462	0,611	Contracting	Brussels	Renovation of a boiler room
3	E Europe	Slovenia	<a href="#">Boarding school Novo mesto</a>	Gas engine	Natural gas	0,05	0,081	Own, loans	Novo mesto	Huge heating potential in public sector
4	N Europe	United Kingdom	<a href="#">Museum of Liverpool</a>	Gas & biodiesel engine	Natural gas & Biodiesel	2,3	2,4	TPF, contracting	Liverpool	New building, TPF
<b>Health sector</b>										<a href="#">Back to main list</a>
1	SE Europe	Greece	<a href="#">Trigeneneration at Mitera hospital</a>	Gas engine	Natural gas	0,49	0,89	Own, investment subsidy	Athens	First trigeneration ever installed in a Greek hospital
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Nr.	Region	Country	Name	Technology	Fuel	Capacity		Financing	City	Specialties
						MW <sub>el</sub>	MW <sub>th</sub>			
<b>Education</b>										<a href="#">Back to main list</a>
1	N Europe	Belgium	<a href="#">Docent Katholieke Hogeschool Kempen, "Hortipower"</a>	Gas engine	Natural gas	8,6	9,542	Loans	Geel	Greenhouse heating, CO <sub>2</sub> nutrition for tomato plants
2	SE Europe	Greece	<a href="#">CHP system in educational - athletic - conference facilities in Athens</a>	Gas engine	Natural gas	0,34	0,68	TPF	Athens	CHP installation with the aim to reduce energy consumption
<b>Other services</b>										<a href="#">Back to main list</a>
1	N Europe	Belgium	<a href="#">Hotel Crowne Plaza</a>	Gas engine	Natural gas	0,14	0,207	Own	Brussels	Extension of a boiler room
2	SE Europe	Greece	<a href="#">Hotel Manthos</a>	Gas engine	Liquid gas	0,0094	0,024	Own	Mountain Pilio	Replacement of the old boiler for sanitary hot water
3	SE Europe	Greece	<a href="#">Hotel Esperia</a>	Gas engine	Natural gas	0,0047	0,012	Own	Thessaloniki	Replacement of the old boiler for sanitary hot water
4	SE Europe	Greece	<a href="#">Aegean &amp; Egnatia Hotels</a>	Gas engine	Natural gas	0,04	0,086	Own, investment subsidy	Thessaloniki	CHP co-operates with solar collectors – among the first installations of this kind in Greece
5	N Europe	United Kingdom	<a href="#">Pricewaterhouse Coopers, 7 More</a>	Biodiesel engine	Biodiesel	0,8	0,83	Own	London	Trigeneration, dual level system, first system of this kind in UK

Nr.	Region	Country	Name	Technology	Fuel	Capacity		Financing	City	Specialties
						MW <sub>el</sub>	MW <sub>th</sub>			
<b>Residential sector</b>										<a href="#">Back to main list</a>
1	E Europe	Czech Republic	<a href="#">Block of flats Troja</a>	Gas engine	Natural gas	0,3	0,45	Own, investment subsidy	Prague	CHP output power regulated according to the electricity consumption
2	N Europe	United Kingdom	<a href="#">De Clare Court, Haverfordwest</a>	Gas engine	Natural gas	0,011	0,025	Own	Haverfordwest	New building with flats for older people

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						MW <sub>el</sub>	MW <sub>th</sub>			
<b>Gas engine</b>										<a href="#">Back to main list</a>
1	N Europe	Belgium	<a href="#">Hotel Crowne Plaza</a>	Hospitality sector	Natural gas	0,14	0,207	Own	Brussels	Extension of a boiler room
2	N Europe	Belgium	<a href="#">Dow Corning</a>	Production	Natural gas	1	1,2	Contracting	Brussels	Electricity & heat used on-site only
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5	N Europe	Belgium	<a href="#">Belgium supreme court house</a>	Public sector	Natural gas	0,462	0,611	Contracting	Brussels	Renovation of a boiler room
6	N Europe	Belgium	<a href="#">Spa Monopole</a>	Food and beverage	Natural gas	2	2,4	Own	Spa	CHP in a factory, change of technology for bottle washing machines
7	SE Europe	Cyprus	<a href="#">Andriana Biogas CHP Plant</a>	Waste management + electricity production	Biogas	0,5	0,5	Own, loans	Xylotymbou	Use of waste from pig farm to minimize transportation costs + sale of electricity

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<b>Biofuel engine</b>										<a href="#">Back to main list</a>
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<b>Combined cycle</b>										<a href="#">Back to main list</a>
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5	N Europe	Belgium	<a href="#">Belgium supreme court house</a>	Public sector	Gas engine	0,462	0,611	Contracting	Brussels	Renovation of a boiler room
6	N Europe	Belgium	<a href="#">Spa Monopole</a>	Food and beverage	Gas engine	2	2,4	Own	Spa	CHP in a factory, change of technology for bottle washing machines
7	E Europe	Czech Republic	<a href="#">Block of flats Troja</a>	Residential sector	Gas engine	0,3	0,45	Own, investment subsidy	Prague	CHP output power regulated according to the electricity consumption
8	N Europe	Denmark	<a href="#">Snedsted Sarmeveark</a>	District heating	Gas engine	3,047	4,075	Own	Snedsted	Retrofit of a district heating CHP



Nr.	Region	Country	Name	Sector	Technology	Capacity		Financing	City	Specialties
						MW <sub>el</sub>	MW <sub>th</sub>			
9	N Europe	Germany	<a href="#">Warsteiner Brauerei</a>	Food and beverage	Gas engine	2,3	2,3	Own	Warstein	Electricity & heat used on-site only
10	SE Europe	Greece	<a href="#">CHP system in educational - athletic - conference facilities in Athens</a>	Education	Gas engine	0,34	0,68	TPF	Athens	CHP installation with the aim to reduce energy consumption
11	SE Europe	Greece	<a href="#">Hotel Esperia</a>	Hospitality sector	Gas engine	0,0047	0,012	Own	Thessaloniki	Replacement of the old boiler for sanitary hot water
12	SE Europe	Greece	<a href="#">Trigeneration at Mitera hospital</a>	Health sector	Gas engine	0,49	0,89	Own, investment subsidy	Athens	First trigeneration ever installed in a Greek hospital
13	SE Europe	Greece	<a href="#">Aegean &amp; Egnatia Hotels</a>	Hospitality sector	Gas engine	0,04	0,086	Own, investment subsidy	Thessaloniki	CHP co-operates with solar collectors – among the first installations of this kind in Greece
14	SE Europe	Greece	<a href="#">Thermie Serres S.A.</a>	District heating	Gas engine	16	16,92	Own, loans, investment subsidy	Serres	New district heating plant
15	SE Europe	Greece	<a href="#">Psyttalia</a>	Wastewater treatment	Gas turbine	12,9	17,3	European funding	Psyttalia island	Heat is used entirely for drying the sludge, electricity covers most of the island's needs
16	N Europe	Ireland	<a href="#">Trigeneration</a>	Manufacturing	Gas engine	2,95	2,05	Own	-	Trigeneration
17	N Europe	Ireland	<a href="#">Bailieboro CHP plant, Lakeland Dairies</a>	Food and beverage	Gas turbine	5	18,5	TPF	Bailieborough	Problems with connection to the grid

Nr.	Region	Country	Name	Sector	Technology	Capacity		Financing	City	Specialties
						MW <sub>el</sub>	MW <sub>th</sub>			
18	SW Europe	Italy	<a href="#">Hypo Alpe Adria Trigeneration Plant</a>	District heating and cooling	Gas engine	1,065	1,268	Own	Tavagnacco, Udine	Heat and cool for a residential area with several public and private buildings
19	E Europe	Slovenia	<a href="#">Boarding school Novo mesto</a>	Public sector	Gas engine	0,05	0,081	Own, loans	Novo mesto	Huge heating potential in public sector
20	SW Europe	Spain	<a href="#">Hospital Central de la Defensa 'Gomez Ulla'</a>	Health sector	Gas engine	5,8	6,1	Own, loans	Madrid	Fully covered electric and heat demands of hospital + sale of electricity
21	SW Europe	Spain	<a href="#">Uipsa Cogeneration Plant</a>	Paper production	Combined cycle	33	52,6 t/h	Loans	Barcelona	Replacement of the old CHP plant
22	N Europe	United Kingdom	<a href="#">De Clare Court, Haverfordwest</a>	Residential sector	Gas engine	0,011	0,025	Own	Haverfordwest	New building with flats for older people
23	N Europe	United Kingdom	<a href="#">Royal Victoria Infirmary Energy Centre</a>	Health sector	Gas engine	3,8	5,5	TPF	Newcastle-upon-Tyne	Renovation of a boiler room in a hospital
24	N Europe	United Kingdom	<a href="#">Milton Keynes District Energy Network</a>	District heating and cooling	Gas engine	6,094	6,346	Loans, TPF	Milton Keynes	District energy scheme – electricity, heating, hot water, cooling
<b>RES</b>										<a href="#">Back to main list</a>
1	N Europe	Belgium	<a href="#">Ecopower</a>	Public sector	Biofuel engine	0,25	0,257	TPF	Eeklo	Administration building
2	SE Europe	Cyprus	<a href="#">Andriana Biogas CHP Plant</a>	Waste management + electricity production	Gas engine	0,5	0,5	Own, loans	Xylotymbou	Use of waste from pig farm to minimize transportation costs + sale of electricity

Nr.	Region	Country	Name	Sector	Technology	Capacity		Financing	City	Specialties
						MW <sub>el</sub>	MW <sub>th</sub>			
3	SE Europe	Cyprus	<a href="#">Tersefanou Biogas CHP Plant</a>	Waste management + electricity production	Gas engine	0,5	0,5	Own, loans	Tersefanou	Use of waste from pig farm to minimize transportation costs + sale of electricity
4	N Europe	Finland	<a href="#">UPM Kymi Recovery Island</a>	Pulp and paper	Steam turbine	110	630 t/h	Own, loans	Kuusankoski	Operation close to the zero carbon footprint
5	N Europe	United Kingdom	<a href="#">Pricewaterhouse Coopers, 7 More</a>	Professional services	Biodiesel engine	0,8	0,83	Own	London	Trigeneration, dual level system, first system of this kind in UK
<b>Mixture of fossil fuels and RES</b>										<a href="#">Back to main list</a>
1	N Europe	Belgium	<a href="#">Belgomilk Langemark</a>	Food and beverage	Gas turbine	7,35	13,8	Own, loans	Langemark	Heat entirely used in a dairy plant
2	E Europe	Poland	<a href="#">CHP plant Siekierki</a>	District heating	Steam turbine	622	1.193	Own, loans	Warsaw	Retrofit of a district heating CHP
3	N Europe	United Kingdom	<a href="#">Museum of Liverpool</a>	Public sector	Gas & Biodiesel engine	2,3	2,4	TPF, contracting	Liverpool	New building, TPF
<b>Others</b>										<a href="#">Back to main list</a>
1	N Europe	Germany	<a href="#">MVR Rugenberger Damm Hamburg</a>	Waste management	Steam turbine (Municipal solid waste)	29	70	Own, KfW-loans	Hamburg	Production of electricity, district heat and process steam
2	N Europe	United Kingdom	<a href="#">Veolia Environmental Services, Sheffield District Energy Network</a>	Waste management and recycling	Steam turbine (Municipal solid waste)	21	40	Own	Sheffield	Heat used for district heating; high capital costs of the infrastructure are problem

Nr.	Region	Country	Name	Sector	Technology	Capacity		Financing	City	Specialties
						MW <sub>el</sub>	MW <sub>th</sub>			
3	SE Europe	Greece	<a href="#">Hotel Manthos</a>	Hospitality sector	Gas engine (Liquid gas)	0,0094	0,024	Own	Mountain Pilion	Replacement of the old boiler for sanitary hot water

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## Currently collected case studies according to the size

Status: 7<sup>th</sup> December 2010

Nr.	Region	Country	Name	Sector	Technology	Fuel	Capacity		Financing	City	Specialties
							MW <sub>el</sub>	MW <sub>th</sub>			
<b>Micro CHP (&lt; 50 kW<sub>el</sub>)</b>											<a href="#">Back to main list</a>
1	SE Europe	Greece	<a href="#">Hotel Esperia</a>	Hospitality sector	Gas engine	Natural gas	0,0047	0,012	Own	Thessaloniki	Replacement of the old boiler for sanitary hot water
2	SE Europe	Greece	<a href="#">Hotel Manthos</a>	Hospitality sector	Gas engine (Liquid gas)	Liquid gas	0,0094	0,024	Own	Mountain Pilion	Replacement of the old boiler for sanitary hot water
3	N Europe	United Kingdom	<a href="#">De Clare Court, Haverfordwest</a>	Residential sector	Gas engine	Natural gas	0,011	0,025	Own	Haverfordwest	New building with flats for older people
4	N Europe	Belgium	<a href="#">Mini CHP for e-mobility</a>	Production	Gas engine	Natural gas	0,012	0,024	Own	Evergem	Demo CHP unit for charging electric cars
5	SE Europe	Greece	<a href="#">Aegean &amp; Egnatia Hotels</a>	Hospitality sector	Gas engine	Natural gas	0,04	0,086	Own, investment subsidy	Thessaloniki	CHP co-operates with solar collectors – among the first installations of this kind in Greece
<b>Small CHP (50 kW<sub>el</sub> ≤ size &lt; 1 MW<sub>el</sub>)</b>											<a href="#">Back to main list</a>
1	E Europe	Slovenia	<a href="#">Boarding school Novo mesto</a>	Public sector	Gas engine	Natural gas	0,05	0,081	Own, loans	Novo mesto	Huge heating potential in public sector
2	N Europe	Belgium	<a href="#">Hotel Crowne Plaza</a>	Hospitality sector	Gas engine	Natural gas	0,14	0,207	Own	Brussels	Extension of a boiler room
3	N Europe	Belgium	<a href="#">Ecopower</a>	Public sector	Biofuel engine	Rapeseed oil	0,25	0,257	TPF	Eeklo	Administration building



Nr.	Region	Country	Name	Sector	Technology	Fuel	Capacity		Financing	City	Specialties
							MW <sub>el</sub>	MW <sub>th</sub>			
4	E Europe	Czech Republic	<a href="#">Block of flats Troja</a>	Residential sector	Gas engine	Natural gas	0,3	0,45	Own, investment subsidy	Prague	CHP output power regulated according to the electricity consumption
5	SE Europe	Greece	<a href="#">CHP system in educational - athletic - conference facilities in Athens</a>	Education	Gas engine	Natural gas	0,34	0,68	TPF	Athens	CHP installation with the aim to reduce energy consumption
6	N Europe	Belgium	<a href="#">Belgium supreme court house</a>	Public sector	Gas engine	Natural gas	0,462	0,611	Contracting	Brussels	Renovation of a boiler room
7	SE Europe	Greece	<a href="#">Trigeneration at Mitera hospital</a>	Health sector	Gas engine	Natural gas	0,49	0,89	Own, investment subsidy	Athens	First trigeneration ever installed in a Greek hospital
8	SE Europe	Cyprus	<a href="#">Andriana Biogas CHP Plant</a>	Waste management + electricity production	Gas engine	Biogas	0,5	0,5	Own, loans	Xylotymbou	Use of waste from pig farm to minimize transportation costs + sale of electricity
9	SE Europe	Cyprus	<a href="#">Tersefanou Biogas CHP Plant</a>	Waste management + electricity production	Gas engine	Biogas	0,5	0,5	Own, loans	Tersefanou	Use of waste from pig farm to minimize transportation costs + sale of electricity
10	N Europe	United Kingdom	<a href="#">Pricewaterhouse Coopers, 7 More</a>	Professional services	Biodiesel engine	Biodiesel	0,8	0,83	Own	London	Trigeneration, dual level system, first system of this kind in UK
<b>Medium CHP (1 MW<sub>el</sub> ≤ size &lt; 10 MW<sub>el</sub>)</b>											<a href="#">Back to main list</a>
1	N Europe	Belgium	<a href="#">Dow Corning</a>	Production	Gas engine	Natural gas	1	1,2	Contracting	Brussels	Electricity & heat used on-site only



Nr.	Region	Country	Name	Sector	Technology	Fuel	Capacity		Financing	City	Specialties
							MW <sub>el</sub>	MW <sub>th</sub>			
2	SW Europe	Italy	<a href="#">Hypo Alpe Adria Trigeneration Plant</a>	District heating and cooling	Gas engine	Natural gas	1,065	1,268	Own	Tavagnacco, Udine	Heat and cool for a residential area with several public and private buildings
3	N Europe	Belgium	<a href="#">Spa Monopole</a>	Food and beverage	Gas engine	Natural gas	2	2,4	Own	Spa	CHP in a factory, change of technology for bottle washing machines
4	N Europe	Germany	<a href="#">Warsteiner Brauerei</a>	Food and beverage	Gas engine	Natural gas	2,3	2,3	Own	Warstein	Electricity & heat used on-site only
5	N Europe	United Kingdom	<a href="#">Museum of Liverpool</a>	Public sector	Gas & Biodiesel engine	Natural gas & Biodiesel	2,3	2,4	TPF, contracting	Liverpool	New building, TPF
6	N Europe	Ireland	<a href="#">Trigeneration</a>	Manufacturing	Gas engine	Natural gas	2,95	2,05	Own	-	Trigeneration
7	N Europe	Denmark	<a href="#">Snedsted Sarmeveark</a>	District heating	Gas engine	Natural gas	3,047	4,075	Own	Snedsted	Retrofit of a district heating CHP
8	N Europe	United Kingdom	<a href="#">Royal Victoria Infirmary Energy Centre</a>	Health sector	Gas engine	Natural gas	3,8	5,5	TPF	Newcastle-upon-Tyne	Renovation of a boiler room in a hospital
9	N Europe	Ireland	<a href="#">Bailieboro CHP plant, Lakeland Dairies</a>	Food and beverage	Gas turbine	Natural gas	5	18,5	TPF	Bailieborough	Problems with connection to the grid
10	SW Europe	Spain	<a href="#">Hospital Central de la Defensa 'Gomez Ulla'</a>	Health sector	Gas engine	Natural gas	5,8	6,1	Own, loans	Madrid	Fully covered electric and heat demands of hospital + sale of electricity
11	N Europe	United Kingdom	<a href="#">Milton Keynes District Energy Network</a>	District heating and cooling	Gas engine	Natural gas	6,094	6,346	Loans, TPF	Milton Keynes	District energy scheme – electricity, heating, hot water, cooling

Nr.	Region	Country	Name	Sector	Technology	Fuel	Capacity		Financing	City	Specialties
							MW <sub>el</sub>	MW <sub>th</sub>			
12	N Europe	Belgium	<a href="#">Belgomilk Langemark</a>	Food and beverage	Gas turbine	Natural gas & Biogas	7,35	13,8	Own, loans	Langemark	Heat entirely used in a dairy plant
13	N Europe	Belgium	<a href="#">Docent Katholieke Hogeschool Kempen, "Hortipower"</a>	Education	Gas engine	Natural gas	8,6	9,542	Loans	Geel	Greenhouse heating, CO <sub>2</sub> nutrition for tomato plants
<b>Large CHP (≥ 10 MW<sub>el</sub>)</b>											<a href="#">Back to main list</a>
1	SE Europe	Greece	<a href="#">Psyttalia</a>	Wastewater treatment	Gas turbine	Natural gas	12,9	17,3	European funding	Psyttalia island	Heat is used entirely for drying the sludge, electricity covers most of the island's needs
2	SE Europe	Greece	<a href="#">Thermie Serres S.A.</a>	District heating	Gas engine	Natural gas	16	16,92	Own, loans, investment subsidy	Serres	New district heating plant
3	N Europe	United Kingdom	<a href="#">Veolia Environmental Services, Sheffield District Energy Network</a>	Waste management and recycling	Steam turbine	Municipal solid waste	21	40	Own	Sheffield	Heat used for district heating; high capital costs of the infrastructure are problem
4	N Europe	Germany	<a href="#">MVR Rugenberger Damm Hamburg</a>	Waste management	Steam turbine	Municipal solid waste	29	70	Own, KfW-loans	Hamburg	Production of electricity, district heat and process steam
5	SW Europe	Spain	<a href="#">Uipsa Cogeneration Plant</a>	Paper production	Combined cycle	Natural gas	33	52,6 t/h	Loans	Barcelona	Replacement of the old CHP plant
6	N Europe	Finland	<a href="#">UPM Kymi Recovery Island</a>	Pulp and paper	Steam turbine	Black liquor	110	630 t/h	Own, loans	Kuusankoski	Operation close to the zero carbon footprint
6	E Europe	Poland	<a href="#">CHP plant Siekierki</a>	District heating	Steam turbine	Coal & Biomass	622	1.193	Own, loans	Warsaw	Retrofit of a district heating CHP