



DANISH ENERGY AUTHORITY



Danish Energy-Sector Exports

# Products and Consulting Services 2002

April 2004

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2002

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## 1. Summary

Since 1992 the Danish Energy Authority has carried out surveys every second year of exports of energy products and energy consultancy services by Danish enterprises. This report is an update of previous reports and covers energy-sector exports for 2002.

In line with previous surveys, this survey was conducted via questionnaires distributed to relevant enterprises. This was done in cooperation with the Confederation of Danish Industries and the Danish Association of Consulting Engineers.

Guided by the questionnaire instructions concerning delimiting, and break-down by product etc., enterprises provided information about their 2002 sales. Figures have been applied without subsequent control or corrections and the break-down of the figures stated into energy and environmental technologies respectively, and into export areas, may therefore be prone to some uncertainty.

The sample survey covered production enterprises and consultancies selected by experts with knowledge about the sector. A total of 90 per cent of the production enterprises and 85 per cent of the consultancies answered the questionnaire. Of these, 53 production enterprises and 19 consultancies exported to the energy sector.

The total value of enterprise exports to the energy sector abroad in 2002 amounted to DKK 24.7 billion, corresponding to about 5.5 per cent of Denmark's total exports. Compared to 2000, this means an increase of about DKK 3 billion, corresponding to 13 per cent. The increase in total Danish exports for the same period was 9 per cent.

Exports of energy equipment etc. comprised 99 per cent of the exports to the energy sector, whereas the last percentage point accounts for exports of consultancy services. Relatively few enterprises are responsible for by far the majority of exports. Thus 90 per cent of exports stems from 10 enterprises and the 7 largest of these account for 80 per cent.

In the last two years, growth in exports of traditional technologies including district heating and combined heat and power, power plants and electricity supply, and technologies for exploitation of renewable energy sources, has been fairly steady. Wind turbines and wind turbine technologies dominate with exports of DKK 15 billion, corresponding to 61 per cent of total exports to the energy sector.

About 75 per cent of exports to the energy sector goes to Europe, where about 55 per cent alone goes to the countries nearest Denmark, including the Nordic countries, Germany and Great Britain.

## 2. Exports of products for the energy sector

Exports of products for the energy sector amounted to DKK 24.4 billion in 2002. This corresponds to about 5.5 per cent of total Danish exports in 2002. In recent years exports for the energy sector have gone up slightly more than the value of Denmark's total exports. Four years ago, exports to the energy sector thus made up about 5 per cent of Denmark's total exports.

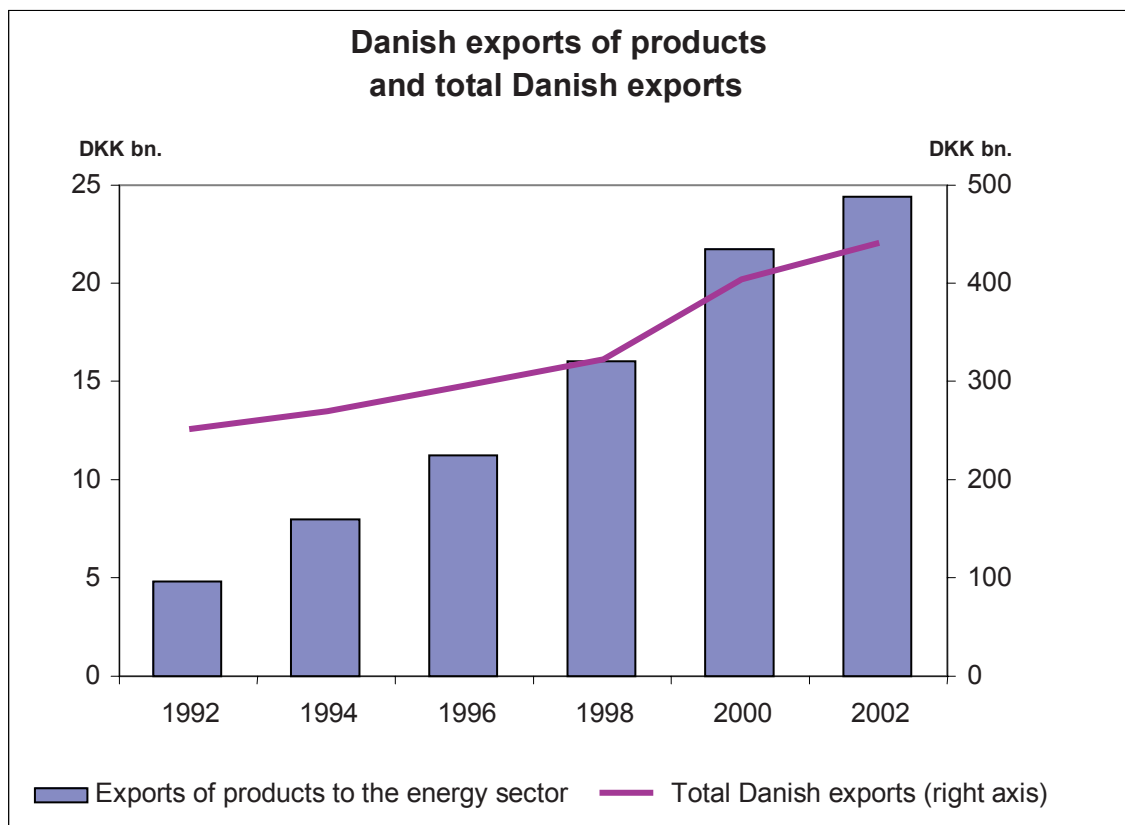


Figure 2.1

The overall increase in the value of exports conceals the fact that the development within exports of different technologies is very uneven. In 1992, more traditional products such as oil and natural gas boilers, district heating and combined heat and power plants, power plants, district heating piping and electrical cabling, etc. comprised almost 80 per cent of total exports to the energy sector. In 2002 these more traditional products made up about 30 per cent of exports.

In the last couple of years, exports of wind turbines have constituted around 60 per cent of total energy exports, cf. Figure 2.2 and Figure 2.3.

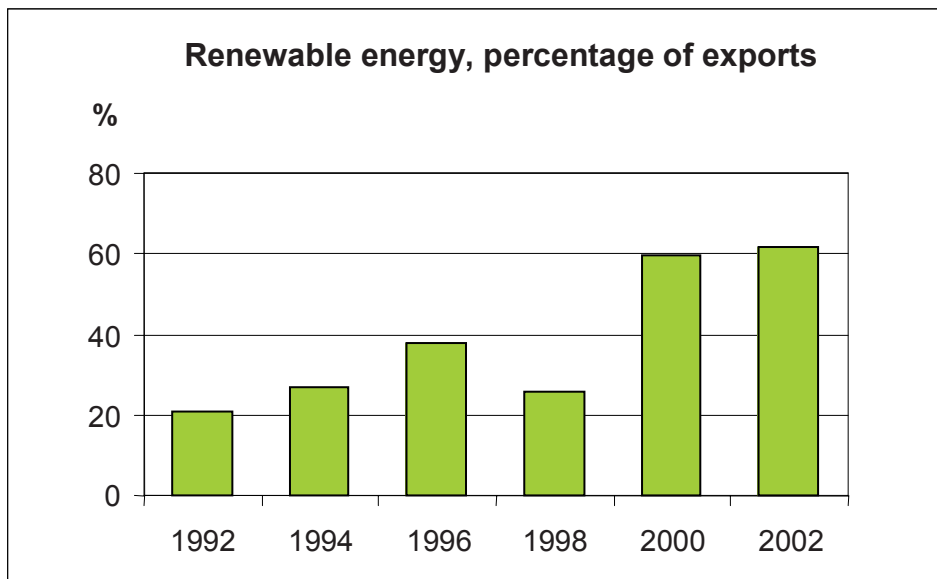


Figure 2.2

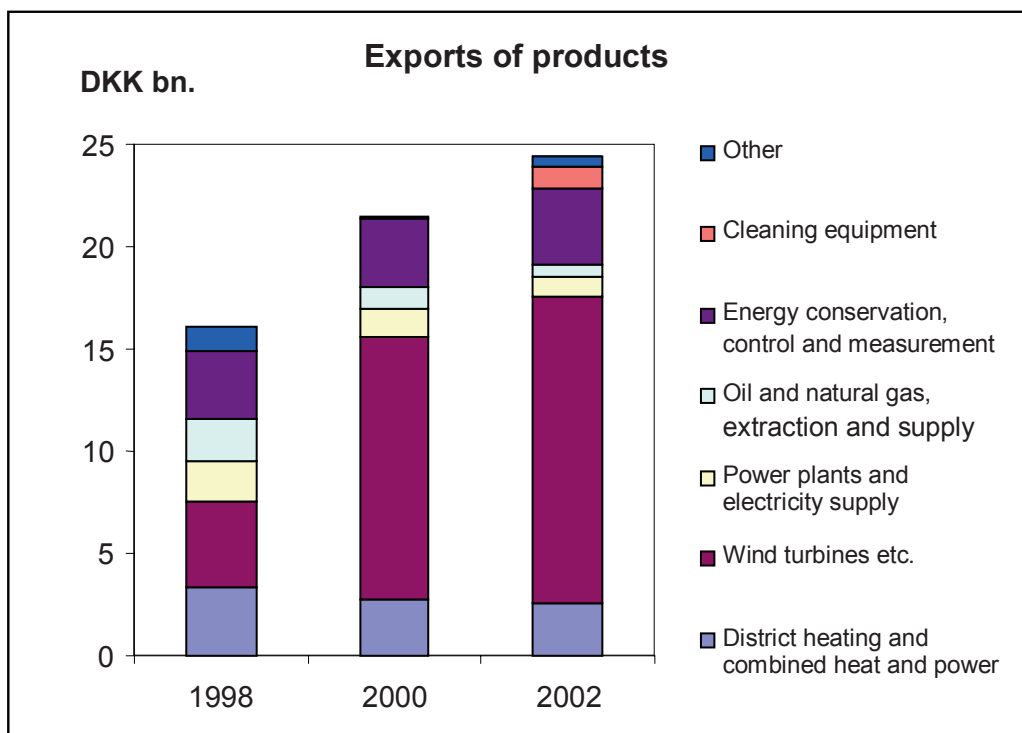


Figure 2.3

In 2002, 74 per cent of exports of products for the energy sector went to Western Europe, including 56 per cent to the Nordic countries, Great Britain and Germany. Further down the list are the US, Canada and Australia with 14 per cent, whereas the Middle East, Asia and Japan account for 6 per cent and Central and Eastern Europe for 4 per cent.

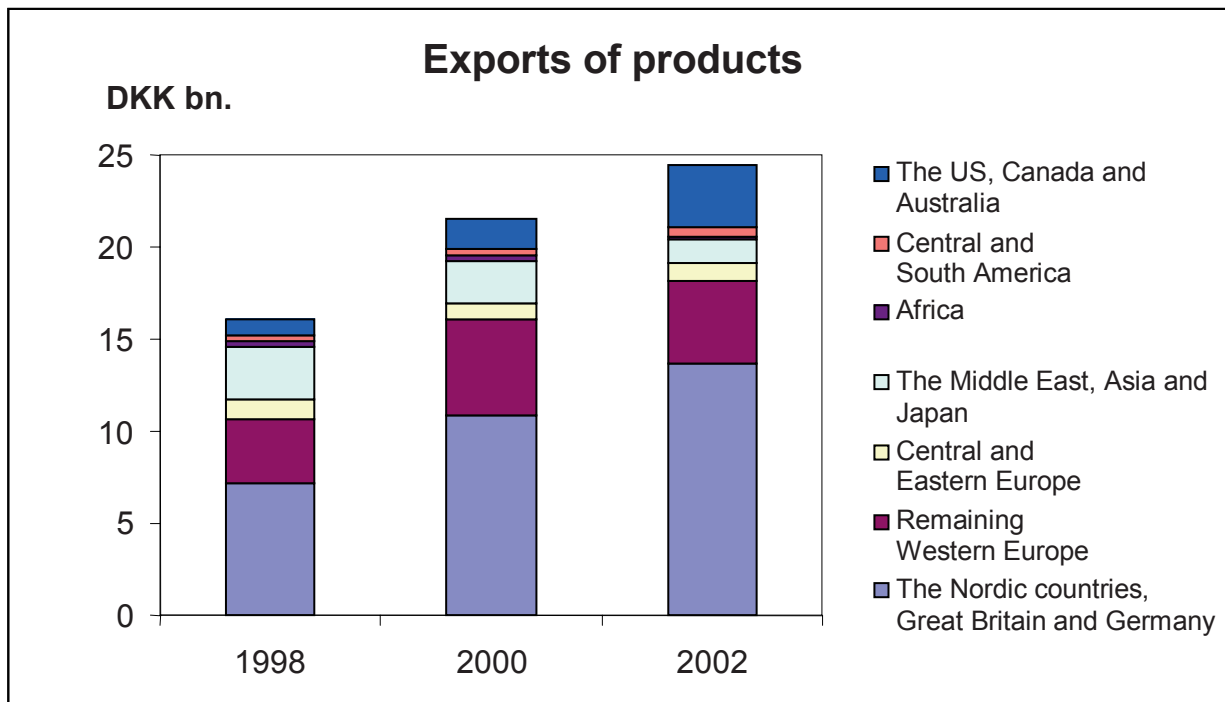


Figure 2.4

Exports of district heating and combined heat and power plants almost exclusively go to Western Europe, regardless of plants for renewable energy sources, waste incineration, coal, oil, or gas. Exports of wind turbines and other renewable energy plants are divided between 80 per cent to Western Europe and the remainder to the US.

A total of 53 enterprises in the questionnaire study responded they have exported products for the energy sector. The 7 largest exporters account for more than 80 per cent and the 10 largest together accounts for 90 cent. These are (listed in alphabetical order):

- Bonus Energy A/S
- B&W Scandinavian Contractors A/S
- Danfoss A/S
- F.L.Smidt A/S
- GRUNDFOS A/S
- Haldor Topsøe A/S
- LM Glasfiber A/S
- Løgstør Rør A/S
- NEG Micon A/S
- Vestas Wind Systems A/S



**Table 1 Exports of products for the energy sector 2002**

	The Nordic countries, GB and Germany	Remaining Western Europe	Central and Eastern Europe	The Middle East, Asia and Japan	Africa	Central and South America	The US, Canada, Australia etc.	Total
<b>DKK billion.</b>	<b>13,735</b>	<b>4,394</b>	<b>959</b>	<b>1,315</b>	<b>120</b>	<b>516</b>	<b>3,368</b>	<b>24,405</b>
<b>%</b>	<b>56</b>	<b>18</b>	<b>4</b>	<b>6</b>	<b>0</b>	<b>2</b>	<b>14</b>	<b>100</b>
District heating and combined heat and power, renewable energy sources	103	24	7	6	-	-	6	<b>146</b>
District heating and combined heat and power, waste incineration	120	39	0	21	-	-	-	<b>180</b>
District heating and combined heat and power, coal, oil and gas	240	15	2	0	-	-	6	<b>263</b>
Other equipment and components for district heating and combined heat and power	1,226	364	228	78	1	1	49	<b>1,947</b>
Wind turbines	9,839	2,439	2	188	1	10	2,473	<b>14,952</b>
Other renewable energy installations	8	2	0	1	3	0	30	<b>44</b>
Electricity plants and electricity supply	114	55	2	348	78	421	1	<b>1,018</b>
Oil and natural gas extraction and supply	149	67	51	29	2	14	291	<b>604</b>
Analysis, measurement, control, and energy conservation	1,280	1,155	564	423	27	60	212	<b>3,721</b>
Cleaning equipment for particles	215	56	20	15	2	0	87	<b>395</b>
Cleaning equipment for gases	255	50	42	52	2	4	203	<b>608</b>
Other	185	128	41	153	3	5	11	<b>527</b>

Note: the figures are based on a proportional distribution between countries of exports from the individual enterprise.

### 3. Exports of consultancy services for the energy sector

Exports of consultancy services for the energy sector amounted to DKK 252 million in 2002. Exports of consultancy services fell by 37 per cent from 1998 to 2000, but they increased by 9 per cent from 2000 to 2002.

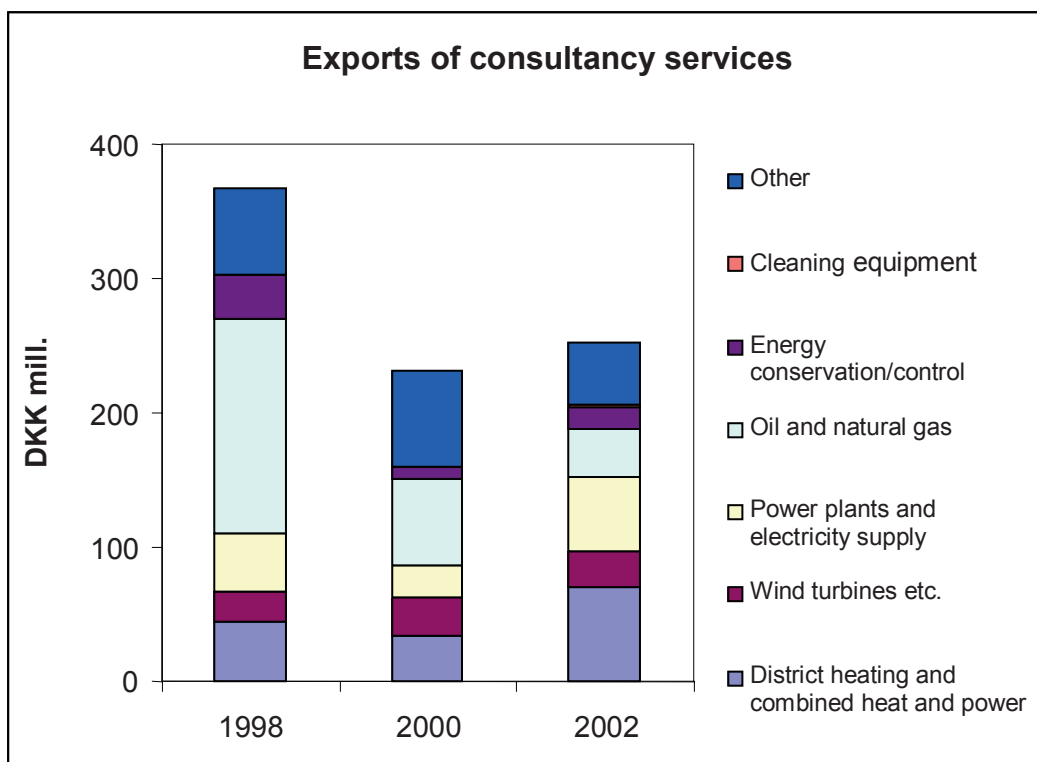


Figure 3.1

Most of the exports of consultancy services relate to district heating and combined heat and power, as well as electricity supply. Compared to 1998, exports relating to oil and natural gas in particular have dropped.

Exports of consultancy services are very diffuse as 3/4 are divided more or less equally between neighbouring countries, Central and Eastern Europe, and Asia. Compared to previous years, there has been a drop in exports to Central and Eastern Europe.

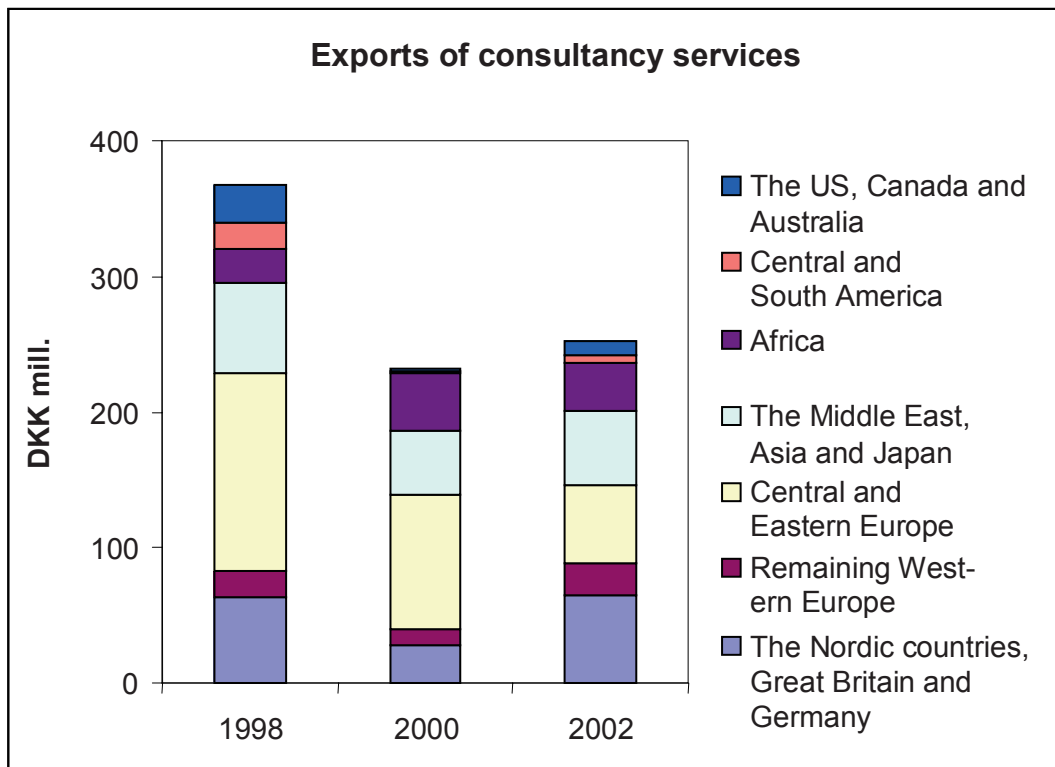


Figure 3.2

Of the 41 enterprises questioned, 19 had exports to the energy sector in 2002. Eight of these account for more than 80 per cent of total exports. These are (in alphabetical order):

- Cowi Consulting Engineers A/S
- Dansk Energi Management
- DHI Water and Environment
- ELSAMPROJEKT A/S
- Risø National Laboratory
- Rambøll
- Tech-wise A/S
- Ødegaard & Danneskiold-Samsøe A/S



**Table 2 Exports of consultancy services to the energy sector**

	1998		2000		2002	
	DKK mill.	%	DKK mill.	%	DKK mill.	%
<b>Total</b>	<b>367.4</b>	<b>100</b>	<b>231.4</b>	<b>100</b>	<b>251.9</b>	<b>100</b>
District heating and combined heat and power, renewable energy sources	18.1	5	14.0	6	28.1	11
District heating and combined heat and power, waste incineration	20.1	5	15.6	7	31.3	12
District heating and combined heat and power, coal, oil and gas	4.0	1	3.1	1	6.3	2
Other equipment and components for district heating and combined heat and power	2.6	1	2.0	1	4.0	2
Wind turbines	8.5	2	19.1	8	11.5	5
Other renewable energy installations	13.6	4	8.6	4	15.8	6
Electricity plants and electricity supply	43.9	12	24.4	11	55.3	22
Oil and natural gas extraction and supply	158.7	43	64.6	28	35.3	14
Analysis, measurement, control, and energy conservation	32.7	9	9.0	4	16.5	7
Cleaning equipment for particles	0.0	0	0.0	0	0.3	0
Cleaning equipment for gases	0.0	0	0.0	0	1.4	1
Other	65.2	18	70.9	31	46.2	18

## 4. Method

The statements of exports are based on a questionnaire survey of exports in 2002 from enterprises of products and consultancy services for the energy sector.

The Confederation of Danish Industries and the Danish Association of Consulting Engineers dealt with the collection of data, while Analyseinstituttet VIBY carried out the analysis.

### Questionnaire

#### **District heating and combined heat and power, renewable energy sources**

Installations for straw, wood pellets, woodchips, waste wood etc.

#### **District heating and combined heat and power, waste incineration**

Waste incineration plant

#### **District heating and combined heat and power, coal, oil and gas**

Installations for coal, oil and gas

#### **Other installations and components for district heating and combined heat and power**

District heating piping, boilers, tanks, pumps etc.

#### **Wind turbines**

Turbines, towers, blades, generators, gearing

#### **Other renewable energy installations**

Solar energy, hydropower, biogas plants, geothermal energy, heat pumps, stoves

#### **Power plants and electricity supply**

Power plants, turbines, engines/motors, generators, electricity cables, transformers

#### **Oil and natural gas, extraction and supply**

Drilling rigs, refineries, gas- and oil-burning boilers, gas and oil lines

#### **Analysis, measurement, control, and energy conservation**

Regulation, monitoring equipment, analysis equipment, control equipment

#### **Other**

E.g. energy planning, institutional development etc.

The enterprises were moreover asked to provide information about the breakdown of total exports between seven groups of countries, corresponding more or less to seven continents:

The Nordic countries, Great Britain and Germany  
Remaining Western Europe  
Central and Eastern Europe  
The Middle East, Asia, and Japan  
Africa  
Central and South America  
The US, Canada, Australia etc.

The enterprises have been offered the opportunity of featuring in a standardised Supplier Catalogue. The Catalogue is enclosed in this report.

## 5. List of exporters of products

A/S Star Pipe Nymarksvej 37 7000 Fredericia Denmark	Telephone: (+45) 7620 3266 Fax: (+45) 7620 3267 Email: starpipe@starpipes.dk Website: www.starpipes.com
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ARCON Solvarme A/S Jyttevej 18 9520 Skørping Denmark	Telephone: (+45) 9839 1477 Fax: (+45) 9839 2005 Email: arcon@arcon.dk Website: www.arcon-solvarme.de
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Argusfyr Energiteknik A/S Lyngager 10 2605 Brøndby Denmark	Telephone: (+45) 4343 2016 Fax: (+45) 4343 0289 Email: lr@argusfyr.dk Website: www.argusfyr.dk
Argusfyr is a Danish company which builds biomass burning systems for hot water, steam and hot oil boilers with a capacity from 0.1 - 15 MW. The company was established in 1954.	Boiler Biomass burning systems Transport systems Flue gas cleaning systems Biomass silo

B&W Scandinavian Contractor A/S Gydevang 35, Postboks 235 3450 Allerød Denmark	Telephone: (+45) 4814 0022 Fax: (+45) 4814 0150 Email: bwsc@bwsc.dk Website: www.bwsc.dk
Burmeister & Wain Scandinavian Contractor A/S (BWSC) is a world-leading turnkey contractor for medium and large diesel-engine-based power systems. BWSC's experience and expertise ranges from every aspect of plant design to rehabilitation, maintenance and financing.	2-stroke low-speed diesel power plants 4-stroke medium-speed diesel power plants Operation & Maintenance contracts Rehabilitation, training and technical support

Babcock & Wilcox Vølund AS Falkevej 2 6705 Esbjerg Ø Denmark	Telephone: (+45) 7614 3400 Fax: (+45) 7614 3600 Email: bwv@volund.dk Website: www.volund.dk
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Batec A/S Danmarksvej 8 4681 Herfølge Denmark	Telephone: (+45) 5627 5050 Fax: (+45) 5627 6787 Email: admin@batec.dk Website: www.batec.dk
BATEC Solar A/S, established 1975, is today a major manufacturer of solar collectors and components for solar collector manufacturing. BATEC produces the unique CuStrips that combine a high efficiency for absorbers at low price as well as highly efficient selective coating for solar collector absorbers.	Solar collectors Solar collector absorbers Solar absorber copper strips Solar selective coating Turnkey solar production line

Baxi A/S Smedevej 6880 Tarm Denmark	Telephone: (+45) 9737 1511 Fax: (+45) 9737 2434 Email: baxi@baxi.dk Website: www.baxi.dk
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Bioscan A/S Tagtækkervej 5 5230 Odense M Denmark	Telephone: (+45) 6615 7071 Fax: (+45) 6615 7771 Email: bioscan@bioscan.dk Website: www.bioscan.dk
Bioscan A/S is a high-technology project-focused company specialised in third generation biogas plants, separation plants, waste-water treatment, water purification etc. Bioscan provides consultancy services and/or designs plants to solve problems through customised sustainable concepts.	Biorek Biogas plants WWTP CHP&W Gas treatment

Bladt industries A/S Postboks 8419 9220 Aalborg Øst Denmark	Telephone: (+45) 9635 3700 Fax: Email: Website:
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Bonus Energy A/S Fabriksvej 4 7330 Brande Denmark	Telephone: (+45) 9942 2222 Fax: (+45) 9718 3086 Email: bonus@bonus.dk Website: www.bonus.dk
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Broen A/S Skovvej 30 5610 Assens Denmark	Telephone: (+45) 6471 2095 Fax: Email: Website:
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Clorius Controls A/S Tempovej 27 2750 Ballerup Denmark	Telephone: (+45) 7732 3130 Fax: (+45) 7732 3131 Email: mail@cloriuscontrols.com Website: www.cloriuscontrols.com
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Danfoss A/S Nordborgvej 81 6430 Nordborg Denmark	Telephone: (+45) 7488 2222 Fax: (+45) 7488 0949 Email: danfoss@danfoss.com Website: www.danfoss.com
Danfoss is a global manufacturing company, which is among the world's leaders in several sectors of industry. Danfoss is certified according to the international standard ISO 14001. Danfoss has an annual turnover of Euro 2.0 mill. and 17,000 employees.	Refrigeration and air-conditioning controls Compressors Thermostat and valves Burner components, comfort controls District heating and water valves

Dansk Solenergi RI Glückstadtsvej 2 2100 København Ø Denmark	Telephone: (+45) 3943 7767 Fax: (+45) 3943 7768 Email: adm@dansksoleenergi.dk Website: www.dansksoleenergi.dk
Danish Solar Energy offers complete Photovoltaic/energy systems; mainly solutions either linked to the grid/net or stand-alone systems for institutions, industrial and private applications all around the world. Danish Solar Energy has more than 10 years experience with project management.	Urban Photovoltaic solutions for buildings Photovoltaic solutions for devices/apparatus Mobile Photovoltaic system Grid connected Photovoltaic projects

Danstoker a.s. Industrivej nord 13, Postboks 160 7400 Herning Denmark	Telephone: (+45) 9928 7100 Fax: (+45) 9928 7111 Email: info@danstoker.dk Website: www.danstoker.dk
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De Smithske A/S (DESMI) Postboks 226 9400 Nørresundby Denmark	Telephone: (+45) 9632 8111 Fax: (+45) 9817 5499 Email: desmi@desmi.com Website: www.desmi.com
DESMI A/S was founded in 1834 and has evolved into a modern international partner producing and servicing pumps, pumping systems and environment protecting equipment. These full-scale pumping systems place DESMI as one of the market leaders in Denmark.	District heating Water supply Sewage disposal Industry Planning, construction, and installation of central water purifying plants



Roug A/S Mørupvej 27-35 7400 Herning Denmark	Telephone: (+45) 9627 1600 Fax: (+45) 9627 1601 Email: roug@roug.dk Website: www.roug.com
Roug A/S was established in 1959 and has more than 40 years of experience in production of oil tanks. For more than 20 years we have also produced towers for wind turbines.	Fuel oil and diesel oil tanks Heat storage tanks IBC/ADR approved tanks, PERMATANKS Single and double wall tanks Towers for wind turbines and UMTS masts

EXPO-NET Danmark A/S Georg Jensens Vej 5 9800 Hjørring Denmark	Telephone: (+45) 9892 2122 Fax: (+45) 9892 4189 Email: plast@expo-net.dk Website: www.expo-net.dk
EXPO-NET Danmark A/S is a family company, founded in 1959. The company manufactures about 700 different types of net. Among our major clients are building contractors.	Noise protection walls Cable marking net Snowfences/Windbreak Biological filters for treatment of waste water BIO-BLOK faskiner

FLS miljø a/s Ramsingvej 30 2500 Valby Denmark	Telephone: (+45) 3618 1100 Fax: (+45) 3617 4599 Email: www.flsmidth.com Website:
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Frese armatur A/S Sorøvej 8 4200 Slagelse Denmark	Telephone: (+45) 5856 0000 Fax: Email: Website:
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Frichs A/S Satelitvej 3 8700 Horsens Denmark	Telephone: (+45) 7564 7244 Fax: (+45) 7564 7433 Email: frichs@frichs.com Website: www.frichs.com
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<p>Gaia Solar A/S          Hammerholmen 9-13, 1.          2650 Hvidovre          Denmark</p>	<p>Telephone: (+45) 3677 7976          Fax: (+45) 3677 7975          Email: info@gaiasolar.dk          Website: www.gaiasolar.dk</p>
<p>Gaia Solar develops, produces and markets solar modules and complete solar-power systems, tailored to the individual needs of the customer. Gaia Solar's main mission is the solar cell market in the Nordic countries. Gaia Solar also targets the markets in Europe and developing countries for large-scale turn-key solar-power systems as well as systems dedicated to powering pumps, lighting, and ventilation.</p>	<p>Photovoltaic modules: 18-85 Wp          Charge regulators, Inverters          Lead-Acid, Gel-type and Metal-ion batteries          Cables, Fittings, Mounting structure          Turn-Key system solution, Transfer of know-how</p>

<p>GRUNDFOS A/S          Poul Due Jensens Vej 7          8850 Bjerringbro          Denmark</p>	<p>Telephone: (+45) 8750 1400          Fax: (+45) 8750 1400          Email: webmaster@grundfos.com          Website: www.grundfos.com</p>
<p>With an annual global production of 10m pumps, Grundfos is one of the world's leading pump manufacturers. The pumps are used for heating, air conditioning, water supply, numerous industrial purposes, dosin, wastewater, fire fighting.</p>	<p>Circulator pumps up to 4,000 m<sup>3</sup>/h          Submersible clean water and wastewater pumps          Centrifugal pumps, single and multistage          Peristaltic dosing pumps          Mixer and flowmakers</p>

<p>Haldor Topsøe A/S          Nymøllevej 55          2800 Lyngby          Denmark</p>	<p>Telephone: (+45) 4527 2000          Fax: (+45) 4527 2999          Email: info@topsoe.dk          Website: www.haldortopsoe.dk</p>
<p>Since its foundation, the Topsøe organization has been active in the fields of heterogeneous catalysis, including research and development work on catalysts and industrial processes, as well as engineering plants based on catalytic processes.</p>	<p>Cleaning of flue gases, off-gases and removal of VOC's          Hydroprocessing technology for refineries          Process technology for production of ammonia, methanol, hydrogen, synthesis gas and formaldehyde          Sulphur recovery technology          Catalysts</p>

<p>IGA A/S International Gas Apparatur          Anholtvej 1          9800 Hjørring          Denmark</p>	<p>Telephone: (+45) 9891 1055          Fax:          Email:          Website:</p>
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Intertec Contracting A/S Fiskergade 66, Postboks 239 8100 Århus C Denmark	Telephone: (+45) 8732 3400 Fax: Email: Website:
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Kampstrup A/S Industrivej 28 8660 Skanderborg Denmark	Telephone: (+45) 8993 1000 Fax: (+45) 8993 1001 Email: kamstrup@kamstrup.dk Website: www.kamstrup.com
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Kamstrup A/S in Denmark is one of the world's leading suppliers of effective and customer-adapted high-technological meter systems for the electricity and heating sectors. Kamstrup is represented in more than 40 countries in Europe and Asia.	Heat meters: MULTICAL - MULTICAL Compact -MAXICAL Electricity meters: Kamstrup 162 - Kamstrup 382 - Kamstrup 351 Combi Meter-reading system: Modem - M-Bus - LON - Radio
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Karl Dungs A/S Vejlevej 21 8722 Hedensted Denmark	Telephone: (+45) 7589 1511 Fax: Email: Website:
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LM Glasfiber A/S Rolles Møllevej 1 6640 Lunderskov Denmark	Telephone: (+45) 7558 5122 Fax: (+45) 7558 6202 Email: info@lm.dk Website: www.lm.dk
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Løgstør Rør A/S Danmarksvej 11 9670 Løgstør Denmark	Telephone: (+45) 9966 1000 Fax: (+45) 9966 1180 Email: lr.kbs@logstor.com Website: www.logstor.com
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MAN B&W Diesel A/S, Holeby Østervej 2 4960 Holeby Denmark	Telephone: (+45) 5469 3100 Fax: (+45) 5469 3030 Email: holeby@manbw.dk Website: www.manbw.dk
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MAN B&W Diesel, Holeby manufactures four-stroke diesel generating sets. The engine programme offers strong four-stroke options for power generation both in ships and in stationary power plants.	Generating sets Spares for Generating sets
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IRON Pump A/S Generatorvej 10 2730 Herlev Denmark	Telephone: (+45) 4491 6788 Fax: (+45) 4491 1644 Email: iron@ironpump.dk Website: www.ironpump.com
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Maskinfabrikken REKA A/S Vestvej 7 9600 Års Denmark	Telephone: (+45) 9862 4011 Fax: (+45) 9862 4071 Email: reka@reka.com Website: www.reka.com
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The Maskinfabrikken REKA A/S was established in 1978 by people with more than 30 years of experience in combustion technics, REKA A/S specialises in producing boilers and fully automatic constructions, all for the exploitation of most kinds of solid fuels (bio fuels). REKA produces customer-specific solutions as well as standard boilers.	Complete heating units. Chimneys Fully automatic refuse disposal plants 1 MW abt. 5 MW Combustion retort boilers, sizes 70 kW - 2 MW Stepped grate boilers, sizes 10 kW - 6.5 MW Manuel waste refuse disposal plants, sizes 200 - 400 kW
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NEG Micon A/S Alsvej 21 8900 Randers Denmark	Telephone: (+45) 8710 5000 Fax: (+45) 8710 5001 Email: mail@neg-micon.dk Website: www.neg-micon.dk
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NKT Cables A/S Toftegårdsvej 25 4550 Assens Denmark	Telephone: (+45) 5966 1234 Fax: (+45) 5966 1235 Email: nktcables@nkt.dk Website: www.nktcables.dk
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Norisol Industrivej 39-41 2605 Brøndby Denmark	Telephone: (+45) 7011 7744 Fax: (+45) 7012 7744 Email: Website:
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Odin Control System A/S Brydehusvej 13 2750 Ballerup Denmark	Telephone: (+45) 7732 3130 Fax: (+45) Email: Website:
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Passat Energi A/S Vestergade 36, Ørum, 8830 Tjele Denmark	Telephone: (+45) 8665 2100 Fax: (+45) 8665 3028 Email: passat@passat.dk Website: www.passat.dk
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Pipecon Ribovej 4 6950 Ringkøbing Denmark	Telephone: (+45) 9692 2000 Fax: (+45) 9692 2002 Email: Website:
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PM Energi A/S Søndergade 4 9700 Brønderslev Denmark	Telephone: (+45) 9880 1822 Fax: (+45) Email: Website:
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REDAN A/S Sindalsvej 33-35 8240 Risskov Denmark	Telephone: (+45) 8621 2211 Fax: (+45) Email: mail@redan.dk Website: www.redan.dk
REDAN A/S (Ltd.). Founded 1971. Specialist in district heating substations for dwellings and apartment houses. Products characterised by with efficiency, quality, and environmental protection. More than one million substations sold.	Instantaneous water heaters District heating substations Compact stations Controlling automatics for DH

Servodan A/S Stenager 5, Ulkebøl 6400 Sønderborg Denmark	Telephone: (+45) 7442 4726 Fax: (+45) 7442 4035 Email: servodan@servodan.dk Website: www.servodan.com
Servodan A/S is a 100% Danish owned company, which develops, produces and markets lighting control systems. These products reduce the consumption of natural resources (energy savings) and increase the comfort of our daily lives.	Lighting controls Light sensors Movement sensors (PIR) Analog light sensors Dimming systems

Silhorko-Eurowater A/S Århusvej 79, Stilling 8660 Skanderborg Denmark	Telephone: (+45) 8793 8300 Fax: (+45) 8657 2486 Email: info@eurowater.com Website: www.eurowater.com
Silhorko-Eurowater develops, manufactures and markets complete solutions within water treatment for the heating industry. Local support is offered from 42 offices throughout Europe.	Pressure filter plants Softening plants Demineralization plants Reverse osmosis plants (RO-plants) Deaerators

DS SM (Sønderjyllands Maskinfabrik) A/S Værksvej 5, Hjordkær 6320 Rødekro Denmark	Telephone: (+45) 7439 3333 Fax: (+45) 7439 3339 Email: ds@ds-sm.dk Website:
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Tjæreborg Industri Kærvej 19 6731 Tjæreborg Denmark	Telephone: (+45) 7517 5244 Fax: Email: Website:
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Vestas Wind Systems A/S Smed Sørensens Vej 5 6950 Ringkøbing Denmark	Telephone: (+45) 9675 2575 Fax: (+45) 9675 2436 Email: vestas@vestas.dk Website: www.vestas.com
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York Refrigeration Postboks 1810 8270 Højbjerg Denmark	Telephone: (+45) 8736 7000 Fax: Email: Website:
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## 6. List of exporters of consultancy services

Birch & Krogboe A/S Teknikerbyen 34 2830 Virum Denmark	Telephone: (+45) 4595 5555 Fax: (+45) 4595 5565 Email: <a href="mailto:evs@birch-krogboe.dk">evs@birch-krogboe.dk</a> Website: <a href="http://www.birch-krogboe.dk">www.birch-krogboe.dk</a>
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Carl Bro A/S Granskoven 8 2600 Glostrup Denmark	Telephone: (+45) 4348 6060 Fax: (+45) 4348 6660 Email: <a href="http://www.carlbro.dk">www.carlbro.dk</a> Website:
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COWI A/S Parallelvej 2 2800 Kgs. Lyngby Denmark	Telephone: (+45) 4597 2211 Fax: (+45) 4.59722e+007 Email: <a href="mailto:cowi@cowi.dk">cowi@cowi.dk</a> Website: <a href="http://www.cowi.dk">www.cowi.dk</a>
COWI is a multidisciplinary Danish consultancy firm, created in 1930, whose 40 offices at home and abroad act as a base for the planning, design and execution of projects for clients from both the private and the public sector.	Industry and building Transportation Environment and planning

Dansk Energi Management Vestre Kongevej 4-6 8260 Viby J Denmark	Telephone: (+45) 8734 0603 Fax: (+45) 8734 0601 Email: <a href="mailto:dem.aarhus@dem.dk">dem.aarhus@dem.dk</a> Website: <a href="http://www.dem.dk">www.dem.dk</a>
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DELTA Dansk Elektronik, Lys & Akustik Venlighedsvej 4 2970 Hørsholm Denmark	Telephone: (+45) 7219 4000 Fax: (+45) 7219 4001 Email: <a href="http://www.delta.dk">www.delta.dk</a> Website:
DELTA helps companies and society with innovative use of some of the most advanced value-adding technologies in the world within electronics, light and acoustics. We thus help our customers develop their competitiveness further.	

DHI Water & Environment Agern Allé 5 2970 Hørsholm Denmark	Telephone: (+45) 4516 9200 Fax: (+45) 4516 9292 Email: dhi@dhi.dk Website: www.dhi.dk and www.dhisoftware.com
DHI offers a broad spectrum of services and tools based on core competences in water resources planning and engineering, environmental chemistry and ecology, urban and industrial environment, coastal and offshore engineering and the marine environment.	Our competences include front-end technologies, software tools, environmental laboratories and physical model test facilities as well as field surveys and monitoring programmes.

dk-TEKNIK Energy & Environment Gladsaxe Møllevej 15 2860 Søborg Denmark	Telephone: (+45) 3955 5999 Fax: (+45) 3969 6002 Email: dk-teknik@dkteknik.dk Website: www.dk-teknik.dk
dk-TEKNIK Energy & Environment is an independent consultancy specializing in the fields of energy and the environment based on the highest quality of know-how, research and development.	Process- and energy optimisation. Energy and Environmental Management Life Cycle Management (LCM) and LCA. Emission and Odour Monitoring (Accredited). Analysis of Fuels and Residues (Accredited).

Elsam Engineering A/S Kraftsværksvej 53 7000 Fredericia Denmark	Telephone: (+45) 7923 3333 Fax: (+45) 7556 4477 Email: mail@elsam-eng.com Website: www.elsam-eng.com
Elsam Engineering is an international consulting engineering company specialising in energy and environment. For more than 30 years we have been active contributors to the development of new technologies for improved energy exploitation and reduced environmental impact. We provide strong competitive and sustainable solutions. Elsam Engineering is a subsidiary of the power utility Elsam.	Combined heat and power plants Biomass Waste-to-energy Wind power Clean coal technology

Forskningscenter RISØ Postboks 49 4000 Roskilde Denmark	Telephone: (+45) 4677 4677 Fax: (+45) 4677 5888 Email: risoe@risoe.dk Website: www.risoe.dk
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Green City Denmark A/S Birk Centerpark 40 7400 Herning Denmark	Telephone: (+45) 9721 6400 Fax: (+45) 9721 7421 Email: info@greencity.dk Website: www.greencity.dk
Based on more than 20 years of environmental legislation and connected environmental improvement research & development, education etc. the Danish Ministry of Business and Industries in co-operation with the Ministry of Energy and Environment initiated Green City Denmark. The objective was to establish a showcase for Danish expertise within energy and the environment.	The main purpose is marketing Danish expertise within environmentally sound production and sustainable solutions within environment and energy. Green City Denmark is organized as a limited liability company with at present more than 250 shareholders.

Houe & Olsen A/S Vegendalsvej 18 7700 Thisted Denmark	Telephone: (+45) 9619 5300 Fax: (+45) 9619 5311 Email: ho@houe-olsen.dk Website: www.houe-olsen.dk
Houe & Olsen is a partnership founded in 1934 and has chosen to concentrate the export activities regarding energy plants with special emphasis on district heating plants based on geothermal energy and biomass.	Building design Industrial plants District heating Geothermal energy, biomass, waste etc. Project development and management

LFG Consult Aps Houkjarshøjen 9 8800 Viborg Denmark	Telephone: (+45) 8667 3210 Fax: (+45) 8667 3209 Email: hcw@lfgconsult.dk Website: www.lfgconsult.com
LFG Consult is primarily a consultancy in connection to recovery of landfill gas and the related environment and risk aspects. Furthermore we work in the field of biogas and waste management. Have carried out projects in Europe, Middle East, Asia and South America for private companies and local authorities as well as the EU, Danida, Danish EPA, UNDP and the World Bank.	Landfill gas plants Biogas and waste management Studies and test pumpings Design Supervision

Moe & Brødsgaard A/S Tørringvej 7 2610 Rødovre Denmark	Telephone: (+45) 4457 6000 Fax: (+45) 4457 6060 Email: <a href="mailto:egm@moe.dk">egm@moe.dk</a> Website: <a href="http://www.moe.dk">www.moe.dk</a>
Moe and Brodsgaard have a staff of 150 consultants and a turnover of around DKK 100 mill. The Quality Assurance System complies with the demands of DS/EN9001 and the Environmental Management System is certified in accordance with DS/EN14001.	Moe and Brodsgaard carries out qualified and committed consulting in a range from larger infrastructure projects to small assignments. Moe and Brodsgaard has special expertise within power plants, airports, railways, drainage, buildings, landfills and environmental

NIRAS Rådgivende Ingeniører og Planlæggere Sortemosevej 2, 3450 Allerød Denmark	Telephone: (+45) 4810 4200 Fax: (+45) 4810 4300 Email: <a href="mailto:niras@niras.dk">niras@niras.dk</a> Website: <a href="http://www.niras.dk">www.niras.dk</a>
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Nordic Consulting Group a/s Kirkevej 8 2630 Taastrup	Telephone: (+45) 4371 6200 Fax: (+45) 4371 9944 Email: <a href="mailto:ncg@ncg.dk">ncg@ncg.dk</a> Website: <a href="http://www.ncg.dk">www.ncg.dk</a>
Nordic Consulting Group offers advisory and consulting services to overall regional, urban and rural development initiatives and our consultants have effective working relations with counterparts and colleagues in interdisciplinary teams.	Water and sanitation Environmental analysis Energy supply Public and private sector reforms Human ressource development and training

Rambøll Bredevej 2 2830 Virum Denmark	Telephone: (+45) 4598 6000 Fax: (+45) 4598 6700 Email: <a href="mailto:ramboll@ramboll.dk">ramboll@ramboll.dk</a> Website: <a href="http://www.ramboll.dk">www.ramboll.dk</a>
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Tech-wise A/S Kraftværksvej 53 7000 Fredericia Denmark	Telephone: (+45) 7923 3333 Fax: (+45) 7556 4477 Email: <a href="mailto:mail@techwise.dk">mail@techwise.dk</a> Website: <a href="http://www.techwise.dk">www.techwise.dk</a>
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<p>Teknologisk Institut  Gregersensvej, Postboks 141  2630 Taastrup  Denmark</p>	<p>Telephone: (+45) 7220 2000  Fax: (+45) 7220 2019  Email: info@teknologisk.dk  Website: www.teknologisk.dk</p>
<p>Danish Technological Institute is an independent, non-profit institution approved by the Danish authorities to provide technological services to business and the community.</p>	<p>Building Technology  Energy, Industry and Industrial Development  Informatics  Materials  Productivity and Logistics</p>

<p>Ødegaard &amp; Danneskiold-Samsøe A/S  Titangade 15  2200 København N  Denmark</p>	<p>Telephone: (+45) 3531 1000  Fax: (+45) 3531 1001  Email: ods@oedan.dk  Website: www.odegaard.dk</p>
<p>Ødegaard &amp; Danneskiold-Samsøe has offered consultancy services world wide since the foundation in 1980. Our expertise covers noise and vibration issues within the oil and gas, industry, marine, and trains.</p>	<p>Machinery - design verifications and trouble shooting  Cruise and cargo ships - noise and vibration  Oil and Gas - noise and vibration  Trains - low noise design  Industry - noise and vibration</p>



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