

# Boiler and Burners Directory

The purpose of this biomass "Boiler and Burners Directory" is to provide an overview on those who can supply biomass combustion technologies for larger residential, commercial, industrial or utility applications. Note that while the list is comprehensive it is not exhaustive nor does it in any way represent an endorsement of a company and/or product.

|   |                                  |  |                              |
|---|----------------------------------|--|------------------------------|
| <b>Austria</b>                            |                                  | <b>Linka Energy A/S</b>                  | <b>www.linka.dk</b>          |
| Andritz AG                                | www.andritz.com                  | Metro Therm A/S                          | www.metrotherm.dk            |
| <b>Bertsch Energy GmbH &amp; Co. KG</b>   | <b>www.bertsch.at</b>            | OKR Cleaning ApS                         | www.okrcleaning.dk           |
| BINDER Energietechnik GmbH                | www.binder-gmbh.at               | Passat Energi A/S                        | www.passat.dk                |
| ETA Heiztechnik GmbH                      | www.eta.co.at                    | Reka A/S                                 | www.reka.com                 |
| Fröling GmbH                              | www.froeling.com                 | Verdo Energy                             | www.verdo.com                |
| Gilles Energie                            | www.gilles.at                    | <b>Estonia</b>                           |                              |
| Guntamatic Heiztechnik GmbH               | www.guntamatic.com               | Pelltech Ltd                             | www.pelltech.eu              |
| Hamont Consulting und Engineering         | www.hamont.com                   | <b>Finland</b>                           |                              |
| Hargassner Ges. m.b.H                     | www.hargassner.at                | Ariterm Group                            | www.ariterm.com              |
| <b>HERZ Energietechnik GmbH</b>           | <b>www.herz-energie.at</b>       | KPA Unicon Ltd                           | www.kpaunicon.com            |
| Integral-Montage Anlagen- und Rohrtechnik | www.integral.at                  | Laatukattila Oy                          | www.laka.fi                  |
| Kohlbach Group                            | www.kohlbach.at                  | Nakkilan Konepaja Oy                     | www.nakkilankonepaja.fi      |
| KWB - Kraft und Wärme aus Biomasse        | www.kwb.at                       | Säätötuli                                | www.saatotuli.fi             |
| <b>Polytechnik</b>                        | <b>www.polytechnik.com</b>       | <b>Valmet Corporation</b>                | <b>www.valmet.com</b>        |
| SL-Technik GmbH                           | www.sommerauer-energie.com       | <b>Veljekset Ala-Talkkari Oy</b>         | <b>www.ala-talkkari.fi</b>   |
| Strebelwerk GmbH                          | www.strebel.at                   | <b>France</b>                            |                              |
| Syncraft Engineering GmbH                 | www.syncraft.at                  | Alstom Power Group (Headquarters)        | www.alstom.com               |
| <b>Urbas Maschinenfabrik GmbH</b>         | <b>www.urbas.at</b>              | Compte-R                                 | www.compte-r.com             |
| VAS Energy Systems International GmbH     | www.vas.co.at                    | Leroux & Lotz Technologies               | www.lltcom.com               |
| <b>Belgium</b>                            |                                  | <b>Germany</b>                           |                              |
| Vyncke N.V.                               | www.vyncke.com                   | <b>Burkhardt GmbH</b>                    | <b>www.burkhardt-gmbh.de</b> |
| <b>Bulgaria</b>                           |                                  | ERK Eckrohrkessel GmbH                   | www.eckrohrkessel.com        |
| Ekoterm Proekt EAD                        | www.greenecothers.eu             | HDG Bavaria GmbH                         | www.hdg-bavaria.com          |
| <b>Canada</b>                             |                                  | <b>Heizomat Gerätebau-Energiesysteme</b> | <b>www.heizomat.de</b>       |
| Krann Engineering Limited                 | www.krann.ca                     | Lambion Energy Solutions GmbH            | www.lambion.de               |
| Nexterra Systems Corporation              | www.nexterra.ca                  | Martin GmbH                              | www.martingmbh.de            |
| Wellons FEI Corp                          | www.wellonsfei.ca                | Nolting Holzfeuerungs-technik GmbH       | www.nolting-online.de        |
| <b>China</b>                              |                                  | Seeger Engineering AG                    | www.seeger.ag                |
| DP CleanTech                              | www.dpcleantech.com              | Standardkessel Baumgarte                 | www.standardkessel.de        |
| <b>Wuxi Teneng Power Machinery</b>        | <b>www.powermaxgasifiers.com</b> | Steinmüller Babcock Environment GmbH     | www.steinmueller-babcock.com |
| Xuzhou Orient Industry Co. Ltd            | www.orient-biofuel.com           | Viessmann Deutschland GmbH               | www.viessmann.com            |
| Zhengzhou Boiler Co., Ltd                 | www.zgindustrialboiler.com       | Weiss Kessel                             | www.weiss-kessel.de          |
| <b>Czech Republic</b>                     |                                  | <b>India</b>                             |                              |
| CSTfire                                   | www.cstfire.com                  | Thermax                                  | www.thermaxglobal.com        |
| Fiedler Zdenek s.r.o                      | www.kotlenabiomasu.com           | <b>Ireland</b>                           |                              |
| <b>Denmark</b>                            |                                  | BHSL Hydro                               | www.bhsl.com                 |
| Aalborg Energie Technik A/S               | www.aet-biomass.com              | <b>Italy</b>                             |                              |
| Alcon A/S                                 | www.alcon.nu                     | Bono Energia                             | www.bono.it                  |
| Babcock & Wilcox Vølund A/S               | www.volund.dk                    | D'alessandro Termomeccanica S.R.L        | www.caldaiedalessandro.it    |
| Burmeister & Wain Scandinavian Cont.      | www.bwsc.dk                      | Garioni Naval SpA                        | www.garioninaival.com        |
| Dall Energy Aps                           | www.dallenergy.com               | Magnabosco Boilers                       | www.magnabosco.com           |
| Danstoker A/S                             | www.danstoker.dk                 | Tatano S.n.c.                            | www.tatano.it                |
| Faust A/S                                 | www.faust.dk                     | TM.E S.p.A. Termomeccanica Ecologia      | www.tme.termomeccanica.com   |
| Justsen Energiteknik A/S                  | www.justsen.dk                   | <b>Uniconfort S.r.l</b>                  | <b>www.uniconfort.com</b>    |



## HZI to build the world's largest EfW plant in Dubai, UAE

The world's largest energy-from-waste (EfW) plant is to be built in Dubai, the largest city in the United Arab Emirates (UAE). Zurich-based Hitachi Zosen Inova (HZI), together with BESIX Group, Belgium's largest construction company operating in the Middle East, has been selected by Dubai Municipality to build the Dubai Resource Recovery Facility. At full capacity the plant will treat over 1.8 million tonnes of municipal solid waste (MSW) annually.

Under a joint venture partnership, the two international companies will collaborate on delivering the engineering, procurement, and construction (EPC) of the turnkey plant, and a minimum of 30 years' operation and maintenance (O&M) of the Dubai Resource Recovery Facility. The value of the contracts has not been disclosed.

– The award of this project, with its relevance to the industry, highlights HZI's market leadership in the energy-from-waste business, in terms of both EPC and O&M. We are delighted and proud of the conclusion of this contract, which marks our successful entry into the Middle East market, said Andres Kronenberg, Vice President Business Development at HZI.

To be located at the waste landfill site in Warisan, Dubai, the plant will treat 5 000 tonnes of non-recyclable municipal solid waste (MSW) from

the Dubai area per day. The electricity from the 171 MWe rated plant will be fed into the local grid as baseload power, enough for around 120 000 homes. In addition, there will be metals recovered and construction materials produced from the bottom ash.

– We are very pleased that Dubai Municipality has entrusted us with this new major project, and honoured to add this reference to the list of sustainable solutions we have created, very much in line with our purpose, said Rik Vandenberghe, CEO of BESIX Group.

### Part of Dubai's sustainability strategy

The project is in line with the Dubai Strategic Plan 2021, the UAE National Agenda 2021, and the Dubai Integrated Energy Strategy 2030. The plans aim to protect the environment and ensure sustainable development through various projects and initiatives for the conservation of natural resources, rationalized consumption, and the inclusion of alternative and renewable energy



resources in Dubai's energy mix.

In accordance with the objectives envisaged in these plans, Dubai Municipality says that it is keen to strengthen efforts to achieve the targets for minimizing the volume of municipal waste disposed of in landfill, and for developing alternative energy sources through the "speedy implementation" of projects for the sustainable management of waste, energy, and the environment.

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|--------------------------------------|--------------------------|-------------------------------------|-----------------------------|
| <b>Japan</b>                         |                          | Baxi AB BDR Thermea                 | www.baxi.se                 |
| EBARA Environmental Plant Co. Ltd    | www.eep.ebara.com        | Camina Ecotec Sweden AB             | www.ecotec.net              |
| JFE Engineering Corporation          | www.jfe-eng.co.jp        | Enertech AB / Osby Parca Division   | www.osbyparca.se            |
| Nippon Steel & Sumikin Engineering   | www.eng.nssmc.com        | Janfire AB                          | www.janfire.com             |
| <b>Latvia</b>                        |                          | Jernforsen Bioenergy Solutions AB   | www.jernforsen.com          |
| Grandeg Pellet Heating Boilers       | www.grandeg.com          | PetroBio AB                         | www.petro.se                |
| <b>Lithuania</b>                     |                          | Saxlund Sweden AB                   | www.saxlund.se              |
| Axis Technologies                    | www.xilotechnologies.com | Sonnys Maskiner AB                  | www.sonnys.se               |
| Enerstena Group                      | www.enerstena.eu         | Swebo Bioenergy AB                  | www.swebo.com               |
| Kalvis UAB                           | www.kalvis.lt            | Veå AB                              | www.veo.se                  |
| <b>Netherlands</b>                   |                          | WTS AB / VärmeTeknisk Service AB    | www.wtsab.com               |
| <b>Host Bio-Energy Installations</b> | <b>www.host.nl</b>       | <b>Switzerland</b>                  |                             |
| <b>Poland</b>                        |                          | Hitachi Zosen INOVA AG              | www.hz-inova.com            |
| Cichewicz Kotly Sp. z o.o.           | www.cichewicz.pl         | Schmid AG, Energy Solutions         | www.schmid-energy.ch        |
| Fabryka Kotłów Sefako S.A.           | www.sefako.com.pl        | <b>Turkey</b>                       |                             |
| Gizex Sp.zo.o                        | www.gizex.com.pl         | Zümrüt ISI                          | www.zumrutisi.com           |
| <b>Pellas X Sp. z o.o. Sp. k.</b>    | <b>www.pellasx.eu</b>    | <b>UK</b>                           |                             |
| <b>Portugal</b>                      |                          | Ecovision                           | www.ecovisionsystems.co.uk  |
| Ventil - Engenharia do Ambiente, Ltd | www.ventil.pt            | Energy Innovations                  | www.energyinnovationsuk.com |
| <b>Singapore</b>                     |                          | Talbotts Biomass Energy Systems Ltd | www.talbotts.co.uk          |
| Keppel Seghers Pte Ltd               | www.keppelseghers.com    | <b>Uruguay</b>                      |                             |
| <b>South Korea</b>                   |                          | Berkes                              | www.berkes.com.uy/en        |
| POSCO Engineering & Construction     | www.poscoenc.com/eng/    | <b>USA</b>                          |                             |
| <b>Spain</b>                         |                          | Detroit Stoker Company              | www.detroitstoker.com       |
| Eratic SA / Innergy Heavy Industries | www.eratic.es            | FSE Inc                             | www.fseenergy.com           |
| L. Solé S.A.                         | www.lsole.com            | Hurst Boiler & Welding Co., Inc.    | www.hurstboiler.com         |
| Sugimat S.L.                         | www.sugimat.com          | McBurney                            | www.mcburney.com            |
| <b>Sweden</b>                        |                          | Rentech Boiler Systems, Onc         | www.rentechboilers.com      |
| AKRON                                | www.akron.se             | <b>Sumitomo SHI FW</b>              | <b>www.shi-fw.com</b>       |