

IBH MAIN REFERENCES

Reference	client	start	end	capacity	Assignment
Waste to Energy Plant Kuwait City	LENDERS (confidential)	2016	Ongoing	1.000.000 t/y	Lender's technical Adviser, pre-bid Due Diligence process
Training course for waste management Algerian delegation	ALMADIUS - CTB (Belgian Technical Cooperation)	2016	2016	NA	Training for Algerian in responsible positions for the waste management in different areas. Course focused on waste incineration with energy valorisation.
Waste Management Tehran, Iran	AMARA (TSWM Theran Solid Waste Management)	2015	Ongoing	1.800.000 t/y	Services for Providing a Comprehensive Investment and Investment Participation Attraction Plan in the Field of Managing Urban Waste and Producing Energy Thereof (1,800,000 t/y). Feasibility study
Biomethanisation plant for Manures, fatty sludges and green waste Qimper France	VOL-V	2015	Ongoing	30.000 t/y	Construction: lay-out study, functional analysis, seeking of suppliers, ATEX documents, (production of 450 Nm ³ /h of biogas for the grid and soil amendment)
Biomethanisation plants for agricultural waste France	Different clients	2015	Ongoing	30.000 to 60.000 t/y	Involvement in the tender preparation for the construction: technical study, cost assessment
Municipal waste treatment plant: biological and energy recovery Fos Sur Mer, Bayonne, France	URBASER	2015	2016	440.000 t/y	Audit of the operation performance, advice for technical improvements. Evaluation of potential projects of construction or refurbishment of waste to energy plants in France. Technical advice
Incineration plant of Charleroi Pont-de-loup, Belgium	ICDI	2011	Ongoing	50,000 t/y	New incineration stream of municipal and non-hazardous waste. Civil works and refuse silo extended. The existing incineration unit is replaced. The existing flue gas treatment equipment is reused and upgraded. Project management
Waste to energy plant of Herstal Herstal, Belgium	INTRADEL UVELIA	1999	Ongoing for operation and maintenance support 2012 for construction	320,000 t/y	Renewal of a sorting and waste to energy plant in order to handle 320,000 t/year of municipal and industrial waste by mass incineration with energy recovery Project management, Technical assistance, Contractual assistance, Support for Operation and Maintenance
Power plant of Bilbao Bilbao, Spain	ZABALGARBI	2005 1999	Ongoing for operation and maintenance support 2005 for construction	240,000 t/y	100 MW Power Plant including a combined cycle (Gas Turbine) and a Municipal Solid Waste incineration stream (240,000 tons of municipal waste per year) Project management, Support for Operation and Maintenance
Waste treatment study French speaking countries	URBASER	2014	2015	NA	Evaluation of potential projects of construction or refurbishment of waste to energy plants in French speaking countries, except France. Contractual aspects.
Waste treatment: fire protection study	URBASER	2014	2015	NA	Evaluation of the fire detection and fire fighting in waste to energy plants and biomethanisation plants.
Municipal waste treatment plant of Manama Manama, Bahrain	HSBC Dubaï	2010	Pending	390,000 t/y	Due Diligence Process (Phase I), Construction Monitoring and Testing (Phase II) Operation Monitoring and Testing (Phase III). Contractual advise, Technical advice

Waste management centre of San Sebastian	GHK	2009	Pending	240,000 t/y	Pre-treatment plant for municipal solid waste through a thermal biodrying process of 200,000 tons/year. A Waste to Energy-plant will process biodried waste and non-hazardous industrial waste via 2 lines of 16 tons per hour (240.000 tons/year) at 12.400 kJ/kg. Auxiliary installations include bottom ashes treatment and valorisation, and metals recovery.
San Sebastian, Spain					Technical assistance, Contractual assistance
Incineration plant of Charleroi	IGRETEC	2006	2011	60,000 t/y	Replacement of an existing incineration unit of 60.000 tons/year. Technical assistance for the supervision of the unit replacement; performance tests procedure, plant acceptance and follow-up of punch list of outstanding works.
Pont-de-loup, Belgique					Technical assistance
Waste to energy plant of Stoke-On-Trent	Hanford Waste Services (HWS) Ltd	1996	Ongoing for operation	180,000 t/y	Refurbishment of an existing incineration plant to a waste to energy plant generating electricity.
Stoke-On-Trent, United Kingdom					The plant is designed to handle 180.000 tons/year of municipal waste Project management
Biological treatment plants of Herstal	INTRADEL	2011	2013	40,000 t/y	Technical assistance and general design of a biomethanisation plant for organic waste separately collected.
Herstal, Belgium					Technical assistance. Analysis of the offers.
Incineration plant of Thumaide	IPALLE	1992	2013	400,000 t/y	1992-1996: additional equipment for the existing sorting/composting incineration plant of 80.000 tons/year. <u>1995-2004</u> : extension of the Municipal Solid Waste incineration plant of the Occidental Hainaut Province with the addition of 2 incineration units of 16 tons/hour and the refurbishment of existing facilities. <u>2002-2011</u> : addition of the municipal and non-dangerous industrial incineration stream N°6. <u>2009-2013</u> : incineration stream N°7.
Thumaide, Belgium					Project management
Nantes Waste to energy Nantes, France	URBASER	2011	2011	150,000 t/y	Preliminary project for new extension works
Complete integrated waste management scheme in Huddersfield	DEXIA Public Finance Bank	2009	2011	235,000 t/y	Reporting services related to the operation of the Huddersfield incineration plant :on-going performance of the plant, adequacy of the technical assumptions used in the Updated Base Case, review of the insurances, compliance of the borrower with its contractual obligations under the service contract.
Kirklees, United Kingdom	Lloyds Bank	2000	2004		Operation reporting to the Lenders 1 Waste To Energy Plant, 1 Material Recycling Facility, 2 Landfill Sites, 2 Transfer Stations... for a total capacity of 235.000 tons/year Technical assistance to financing organisation during the construction (refurbishment)
	Lloyds Bank	1999	2000		Technical Due Diligence for the development and the operation of a complete integrated waste management scheme including Waste to Energy Plant, Material Recycling Facility, Transfer Stations, Landfill Sites and Composting Sites.
Incineration units of the Walloon Brabant Province	IBW	1994	2011	50,000 t/y	1994: additional equipment and modification of existing incineration furnace. Treatment of the exhaust gas in accordance with EC regulations and installation of new incineration stoker grate and boiler. <u>2001-2009</u> : construction of an incineration train for municipal waste (50.000 tons/year) with a water cooled grate, a recovery boiler and a turbo generator set.
Virginal, Belgium					

					<p><u>2005-2011</u>: provision of SCR Denox flue gas treatment of 2 incineration units.</p> <p>Project management, Technical assistance, Tender evaluation</p>
<p>Sorting and shredding plant of the Walloon Brabant Province</p> <p>Walloon Brabant Province, Belgium</p>	IBW	2003	2011	40,000 t/y	<p>Municipal Solid Waste transfer station. Sorting and shredding of bulky waste. Potential addition of a biological drying unit.</p> <p>Project management</p>
<p>Waste to energy plant of Herstal</p> <p>Belgium</p>	SITRAD	1988	2009	240,000 t/y	<p>1988 -1992: modification of the existing Intradel Centre. Addition of three Refuse Derived Fuel (RDF) incineration units with energy recovery and advanced flue gas cleaning in order to guarantee a throughput of 240.000 tons/year.</p> <p><u>1992-1996</u>: additional facilities to the Intradel plant. Installation of a fourth Refuse Derived Fuel (RDF) incineration stream, biogas collection and complementary leachate treatment for the existing landfill.</p> <p><u>1990-2009</u>: operation monitoring of the municipal waste sorting and incineration plant.</p> <p>Technical assistance, Contractual assistance, Financial control, Technical control</p>
<p>Waste to energy plant</p> <p>Frumasani, Romania</p>	GRUPOTEC	2009	2009	330,000 t/y	<p>Feasibility study for the construction of a waste to energy plant in Frumasani with a throughput of 330.000 tons/year : technical and economical aspects for the process equipment.</p> <p>Feasibility study</p>
<p>Biological treatment plants of municipal solid waste</p> <p>Varenes-Jarcy, France</p>	URBASER Environnement	2007	2008	-	<p>Quality, Safety and Environmental Audit of two biological treatment plants of municipal solid waste (biomethanisation process) in France : Varennes-Jarcy (Paris) and Calais.</p> <p>Audit</p>
<p>Waste to energy market</p> <p>Poland</p>	URBASER	2007	2007	NA	<p>Analysis of the Polish Waste Management Market and advice on the preparation of successive steps leading to possible acquisitions of Municipal Solid Waste Collection and/or Treatment companies in Poland.</p> <p>Market analysis</p>
<p>Solid waste management solutions</p> <p>Charleroi, Belgium</p>	ICDI	2008	2008	-	<p>Comparative study of solid waste management solutions, including technical, economical, environmental aspects, in order to replace an existing incineration line by a combination of different processes: sorting, biomethanisation, biodrying, incineration.</p> <p>Feasibility study</p>
<p>Waste to energy plants</p> <p>Comunidad de Valencia, Spain</p>	VAERSA / CAAZ	2005	2007	300,000 t/y	<p>Feasibility studies concerning envisaged Municipal Solid Waste to Energy plants to be implemented in Castellon Province, Alicante Province and Valencia Province: compared and selection mass burning technologies, general specification for civil works and equipment, financial study including cash flow analysis and IRR calculation, contractual advising on project company implementation..</p> <p>Feasibility study</p>
<p>Biological treatment plant of Namur</p> <p>Namur, Belgium</p>	BEP	2004	2007	25,000 t/y	<p>Technical assistance and general design of a biomethanisation plant for organic waste (25.000 tons/year) separately collected.</p> <p>Technical assistance. Analysis of the offers.</p>

Waste to energy market	URBASER	2005	2006	NA	Analysis of the UK Waste Management Market and advice on the preparation of successive steps leading to possible acquisitions of Municipal Solid Waste Collection and/or Treatment companies in the UK.
United Kingdom					Market analysis
Solid waste co-incineration	VAERSA	2004	2005		General study of solid waste co-incineration in cement production factories: general review of co-incineration situation in Europe, actual use of waste as fuel in Valencia and Alicante cement production factories.
Comunidad de Valencia, Spain					Feasibility study
Biomass Incineration stream of Liège	Energyval	2002	2004	50,000 t/y	Incineration stream of waste wood with a thermal capacity of 25 MWth (Megawatts of thermal capacity) with energy recovery.
Seraing, Belgium					Project management
Waste to energy plant of South East London	SELCHP Ltd.	1989	2004	400,000 t/y	Design of a waste to energy plant in order to handle 420,000 tons/year of municipal waste
London, United Kingdom					Project management, Technical assistance, Contractual advice, Technical advice
Treatment plant of cleaning sludges, Hainaut Province	IPALLE	2000	2002		General study, tender specification and tender analysis for a treatment plant of cleaning sludges with sand recovery (15 tons/hour).
Hainaut Province, Belgium					General study
Materials recycling facility,	ICDI	2000	2000	30,000 t/y	Feasibility study of a materials recycling facility aiming at the valorisation of paper, cardboard, plastics and metals after separate collection
Charleroi, Belgium					Feasibility study
Sorting and shredding plant, Walloon Brabant	IBW	1999	2000	30,000 t/y	Feasibility study of a sorting and shredding plant for municipal bulky waste. Comparison of alternative locations including transportation criteria and economical aspects.
Belgium					Feasibility study
Herstal Plant refurbishment,	INTRADEL	1999	2003	320,000 t/y	Feasibility study for the Herstal Plant refurbishment aiming at transforming existing waste sorting/incineration units into a mass burning plant: technical, economical and environmental aspects.
Liege, Belgium					Feasibility study
Solid waste management	BEP	1998	1998	-	Technical assistance for solid waste management in Namur Province. Feasibility of sorting plant for industrial non-toxic waste and evaluation of tenders for municipal waste collection services.
Namur Province, Belgium					Technical assistance
Green waste and waste water sludge	IPALLE	1998	1998	15,000 t/y	Feasibility study of composting of green waste and waste water sludge.
Hainaut Province, Belgium					Feasibility study
Biogas collection and leachate treatment	INTRADEL	1997	2002	-	Supervision of the construction of landfill extension with biogas collection and leachate treatment (Hallembaye II).
Liège, Belgium					Project management
Clinical waste transfer building	IPALLE	1995	1999	2,000 t/y	General design, preparation of contractual and technical specifications, tendering procedure, evaluation of tenders and construction supervision for clinical waste transfer building (reception and storage, loading and incineration of 2,000 t/y)
Tournai, Belgium					Project management

Waste to energy plant of Dudley	Dudley Waste Services (DWS) Ltd.	1996	1999	90,000 t/y	Refurbishment of an existing incineration plant to a waste to energy plant generating electricity. The plant is designed to handle 90,000 tons/year of municipal waste
Dudley, United Kingdom					Project management
Waste to energy plant of Wolverhampton	WWS Ltd	1996	1998	105,000 t/y	Upgrading of an existing incineration plant to a waste to energy plant generating electricity. The plant is designed to handle 105.000 tons/year of municipal waste
Wolverhampton, United Kingdom					Project management
Collection of organic waste	SONAT	1994	1996	225,000 t/y	Development of separate collection of organic waste and tender procedure for sorting/composting treatment plant for the Namur Province (B). Revision of incineration plant project and extension to 3 streams in order to process 225,000 t/y of municipal waste for Namur and Luxembourg Provinces
Namur, Belgium					
Incineration plant of Mantes	Urban District	1994	1994	135,000 t/y	Technical advice and examination of bids for an incineration plant of 135.000 tons/year with stoker grate or fluidized bed.
Mantes, France					Technical advise
Brussels incineration plant	Agence Bruxelles Propreté	1993	1996	-	Processing of the exhaust gas of the Brussels incineration plant, in accordance with the EC regulations (3 x 120.000 Nm ³ /h).
Brussels, Belgium					Project management
Incineration and composting plant of Mataro	Crédit Lyonnais (F)	1993	1995	140,000 t/y	Incineration and composting plant.
Mataro, Spain					Technical assistance
Municipal waste treatment project of St Germain	BCEOM	1992	1993	200,000 t/y	Municipal waste treatment project of 200.000 tons/year for the district association SIDRU.
St Germain-en-Laye, France					Tender analysis
Sorting / anaerobic composting pilot plant	CEC and Bangkok Municipality Administration	1992	1994	-	Environmental Impact Assessment of a sorting / anaerobic composting pilot plant in comparison with existing landfills or composting systems and envisaged incineration plant.
Bangkok, Thailand					Environmental Impact Assessment
Civil engineering works	Andrade Gutierrez (Brasil)	1992	1995	-	Contractual assistance for assessment and evaluation of claims concerning civil engineering works.
Cameroun					Contractual assistance
Animal waste in Wallonia	Exécutif de la Région Wallonne	1991	1992	-	Preparation of a tendering procedure for the disposal of animal waste in Wallonia, tender documentation for a long term service contract, comparison of proposals.
Région Wallonne, Belgium					Tender procedure
Cleansing equipments and waste collection material	Commission of the European Communities	1991	1992	-	Evaluation of technical specifications for cleansing equipments and waste collection material of the town of LUANDA. Review of tender documentation and modification.
Luanda, Angola					Evaluation of technical specifications
Hazardous waste and oil waste treatment in the Brussels area	IBGE	1990	1991	-	Reports on the existing situation of hazardous waste and oil waste treatment in the Brussels area.
Belgium					Audit
Incineration plant of Montreal	LBCD	1990	1991	200,000 t/y	Preparation of the tender documents
Montreal, Canada					Technical assistance

Brussels incineration plant	Région de Bruxelles Capitale	1989	1990	600,000 t/y	Extension of the Brussels Incineration Plant in order to increase the capacity of the plant from 450.000 to 600.000 tons per year. Project management
Brussels, Belgium					
Treatment of urban solid wastes	Commission of the European Communities and Ministry of Thailand	1989	1990	50,000 t/y	Detailed feasibility study of a pilot plant for the treatment of urban solid wastes in the Bangkok area. Feasibility study
Bangkok, Thailand					
Municipal waste treatment plant of Namur	BEP	1987	1996	150,000 t/y	Municipal waste treatment plant of 150.000 tons/year with energy recovery Project management
Belgium					
Chemical Waste treatment Plant	EPD Hong Kong	1987	1988	-	Consultancy on contractual matters and tendering procedures for a Chemical Waste treatment Plant to be implemented in Hong Kong. Contractual advice
Hong Kong					
Urban solid waste in Bangkok	Commission of the European Communities and Ministry of Industry of Thailand	1987	1988	-	Study for the production of energy and other useful products from urban solid waste in Bangkok; promotion of private sector involvement (with possible applications in other major Asean countries). General study
Sorting and Recycling Centre of Intradel	Exécutif de la Région Wallonne	1986	1987	-	Audit of existing "Sorting and Recycling Centre" of Intradel, study of the possible markets for the recovered products and proposal of future investments. Audit
Liège, Belgium					
Cleansing Department Brussels	Agglomération de Bruxelles	1981	1983	100,000 t/y	General study aiming at centralizing all the services of the "Cleansing Department" of the Agglomération de Bruxelles: administration, vehicle workshop, covered parking area for lorries as well as a transfer centre for household refuse. Detailed study of the above mentioned transfer centre: project for a transfer station with a capacity of 100,000 tons/year, selection of the bidders and preparation of the tender documents General study
Belgium					
Treatment of industrial and hospital waste in the Brussels area	Agglomération de Bruxelles	1981	1982	-	Preliminary study for the treatment of industrial and hospital waste in the Brussels area, evaluation of arising types and quantities, comparison of treatment methods. Audit
Belgium					
Common treatment of sludge	Région Bruxelloise	1979	1980	30,000 t/y	Study of technical, environmental and economical opportunities for a common treatment of sludge from waste water treatment plants and of household refuse in the Brussels agglomeration (30,000 tons/year). Feasibility study
Brussels agglomeration, Belgium					
Incineration of sludge Brussels	Ministère des Affaires Bruxelloises	1978	1979		Study for the incineration of sludge resulting from the treatment of waste water in Brussels (1,500,000 I.E.) Feasibility study
Belgium					
Incineration plant of Brussels	Agglomération de Bruxelles	1977	1987	460.000 t/y	Incineration plant with energy recovery. Global management of the construction - operation follow-up
Belgium					