



REFERENCE LIST

No	LOCATION	CUSTOMER	INDUSTRY
Boiler Feed Production			
1	Botswana, Morupule	Botswana Power Corp/Esmil Power Station / Refurbishment of boiler feed water treatment plant	Power Plants, Boiler Feed Production
Chemical Treatment and Disinfection			
2	Croatia, Zagreb	INA-Naftaplin/Pritchard-Rhodes Inc Ethylene Complex / 2 x 100% duty streams producing 100m ³ /h of demineralised water. Regeneration equipment, bulk chemical storage & an effluent treatment facility is also included	Oil and Gas, Softening and Demineralisation
3	France, Sedan	Unilin SA/Esmil MDF Effluent & Waste Water Treatment / Turnkey project for treatment & recovery of highly contaminated waste stream. Treatment comprised of flocculation/dewatering/ multi-media filtration/membrane treatment & activated carbon filtration to reduce COD from 24,000 mg/l to less than 100 mg/l	Wood Processing and Panel Board Production
4	France, St. Nazaire	Holland America Line chantiers de Atlantique for Cruise Ships Drinking Water from Seawater	Seawater Treatment
5	Indonesia	Ministry of Minerals & Mines/Rhine Schelde Verolme Machinefabriek A.G. (Black & Veach) Maura Karang Power Station / 1 x 50 m ³ /h demineralisation plant & associated regeneration equipment. Low & high pressure dosing equipment. The whole plant is controlled via a sophisticated automatic water quality analyser	Mining Industry
6	Kuwait	Kuwait Nat. Petroleum Co./Japan Gas Corp Oil Refinery / Chemical injection package consisting of 4 x dosing sets for boiler feed water	Oil and Gas
7	Luxembourg, Sanem	Kronospan Sanem et Cie/Esmil MDF Effluent & Waste Water / Turnkey project for treatment & recovery of highly contaminated waste stream. Zero Discharge Process	Wood Processing and Panel Board Production, Zero Discharge Process
8	Norway, Gullfaks Offshore	Statiol/Elind Offshore Oil Platform / Ultraviolet & chemical dosing equipment for disinfection of potable water	Oil and Gas
9	Portugal, Porto Sando Island	Regional Government of Madeira Drinking Water from Seawater	Seawater Treatment
10	Portugal, Tomar	Fabricas Mendes Boiler Feed Water	Food Industry, Boiler Feed Production
11	Saudi Arabia, Rabigh	Petrola International SA/Sete International SA Oil Refinery Complex / A plant to provide chemical dosing & chlorination facilities to a desalinated potable water supply. The equipment provides for demineralisation, sterilisation & activated carbon filtration to treat a flow rate of some 300 m ³ /h	Oil and Gas, Seawater Treatment
12	Spain	FINSA/Esmil MDF Effluent & Waste Water Treatment / Initially design & supply of 400 m ³ /day pre-treatment plant utilising chemical dosing & filter press	Wood Processing and Panel Board Production
13	Thailand, Sriracha	Thai Oil Refinery / Chiyoda Chemical Engineering Corp Oil Refinery / A process condensate treatment plant comprising degasser unit & 2 x 100 m ³ /h duty mixed beds, each designed to handle 20 m ³ /h of condensate. Fully automatic Regeneration equipment, bulk chemical storage & effluent neutralisation are also included	Oil and Gas
14	UAE, Abu Dhabi, Thamamma	Abu Dhabi National Oil Co./Fluor (GB) Ltd. Oil Refinery / 2 x 330,000 kg/h tray type de-aerators for boiler feed	Oil and Gas, Boiler Feed Production
15	UK, Dartford	Wiggins Teape Limited Paper Mill/Effluent coagulation tank & chemical dosing set	Pulp and Paper



16	UK, Hull	B.P. Chemicals Ltd/B.P. Chemicals Ltd Chemical Factory / Upgrading, conversion & automation of 3 x de-alkalisation units, using the UPCORE packed bed process. Capacity 136 m ³ /h per stream. The contract also included full erection within limited shut down periods & remote data transmission facilities via modems & a landline	Chemical Industry
17	UK, Wrexham	Kronospan Ltd/Esmil MDF Effluent & Waste Water Treatment / 2nd Plant at Kronospan, Wrexham as per above.	Wood Processing and Panel Board Production
18	UK, Wrexham	Kronospan Ltd/Esmil MDF Effluent & Waste Water Treatment / Turnkey project for treatment & recovery of highly contaminated waste stream. Treatment comprised of flocculation/dewatering/ multi-media filtration/membrane treatment & activated carbon filtration to reduce COD from 24,000 mg/l to less than 100 mg/l	Wood Processing and Panel Board Production
19	Zimbabwe, Wankie	Electricity Supply Commission/Merz & McLellan Power Station / 1 x 402 m ³ /h clarification/filtration 2 x 180 m ³ /h cation/degas/anion/mixed bed 1 x 180 m ³ /h condensate polisher HP & LP boiler chemical dosing equipment	Boiler Feed Production, Power Plants
20	Zimbabwe, Wankie	Zimbabwe Electricity Supply Authority/Esmil Hwange Power Station / Complete refurbishment of the pre-treatment & demineralisation boiler feed plant, including installation of new PLC systems	Power Plants, Boiler Feed Production
Conventional Systems			
21	Ecuador	Central Equadorian Petroleum Corp/Chiyoda Chemical Engineering Corp Oil Refinery / 455 m ³ /h clarification/filtration 120 m ³ /h demineralisation 270 m ³ /h cooling water filters 138 m ³ /h dissolved air flotation	Oil and Gas, Softening and Demineralisation
22	Korea, Seoul	Samsung Construction Ltd/Korea Engineering Co Ltd - A raw water clarifier designed to treat 190 m ³ /h of river water	Ultra Pure Water Production, River Water Treatment
23	Thailand	Nobel Explosives/Tate & Lyle Agri-Business Ltd Explosives Factory / 1 x clarifier & 3 x rapid gravity filters designed to produce 215 m ³ /h of potable quality water, complete with chemical dosing & sludge handling equipment. 1 x fully automatic base exchange unit designed to produce 25 m ³ /h of boiler feed water	Chemical Industry, Softening and Demineralisation
24	Turkey, Gemlik	Azot-Sanayii T.A.S./M W Kellogg Ltd Ammonia Complex / Complete process water treatment comprising: Clarification & filtration for 830 m ³ /h demineralisation for 280 m ³ /h condensate polishing for 195 m ³ /h	Chemical Industry
25	Zimbabwe, Wankie	Electricity Supply Commission/Merz & McLellan Power Station / 1 x 402 m ³ /h clarification/filtration 2 x 180 m ³ /h cation/degas/anion/mixed bed 1 x 180 m ³ /h condensate polisher HP & LP boiler chemical dosing equipment	Boiler Feed Production, Power Plants
26	Zimbabwe, Wankie	Zimbabwe Electricity Supply Authority/Esmil Hwange Power Station / Complete refurbishment of the pre-treatment & demineralisation boiler feed plant, including installation of new PLC systems	Power Plants, Boiler Feed Production
DAF and FOG/SS Separation			
27	Austria, Hallein	Binder-Holz GmbH/Monsanto MDF Effluent / Turnkey project for treatment & recovery of & Waste Water highly contaminated waste stream. Treatment comprised of flocculation/dewatering/multi-media filtration/membrane treatment & activated carbon filtration to reduce COD from 24,000 mg/l to less than 100 mg/l	Wood Processing and Panel Board Production
28	Ecuador	Central Equadorian Petroleum Corp/Kobe Steel Ltd A complete refinery effluent system, comprising 2 x Monarch CPI oil interceptors, full flow dissolved air flotation & activated sludge bio-logical treatment to treat a flow of 10 m ³ /h	Oil and Gas
29	Ecuador	Central Equadorian Petroleum Corp/Chiyoda Chemical Engineering Corp Oil Refinery / 455 m ³ /h clarification/filtration 120 m ³ /h demineralisation 270 m ³ /h cooling water filters 138 m ³ /h dissolved air flotation	Oil and Gas, Softening and Demineralisation



30	Gibraltar	Gibraltar Electricity/Hawker Siddeley Power Eng. Tilted plate separator	Oil and Gas
31	India	Oil & Natural Gas Commission/Termokimik Corp, Milan, Itlay The design, procurement & supply of a plant to treat produced water at 250 m ³ /h. The plant comprises 1 induced gas flotation unit and 2 pressure cross-flow CPI's	Oil and Gas
32	India, Uran	Oil & Natural Gas Commission/Engineers India Ltd Effluent plant utilising B.P. process designed to treat 700 m ³ /h of oil effluents. The plant uses CPI's & filters high rate bio-filtration & sludge dewatering	Oil and Gas
33	Indonesia	Pertamina Aromatic Complex/Robert Jenkins Ltd 1 x 183 m ³ /h Monarch oil/water separator	Oil and Gas
34	Iraq, Al Madain	State Organisation for Oil Projects/Hydrrotechnik GmbH 1 x 140 m ³ /h dissolved air flotation system	Oil and Gas
35	Iraq, Al Mussaib	S.O.E. Iraq/Hyundai Power Station/Treatment for 100 m ³ /h of power station waste water comprising of oil removal by VTC/pH adjustment/coagulation/sedimentation filtration & sludge dewatering	Power Plants
36	Ireland, Dublin	Esso, Teoranta/John Paul Mechanical Ltd 1 x 120 m ³ /h Monarch CPI oil/water separator	Oil and Gas
37	Kuwait	Kuwait Oil Co/Black Sivalls & Bryson Ltd 4 x 163 m ³ /h enhanced API type separator (coalescer)	Oil and Gas
38	Kuwait, Mina Al-Ahnadi	Kuwait National Petroleum Co/Abdul Aziz Yousuf Essa & Co. A CPI unit to treat 218 m ³ /h of oily water completely with treated water & oil recovery pumps 4 x 163 m ³ /h enhanced API type	Oil and Gas
39	Libya, Ras Lanuf	Libyan National Oil Corp/Stone & Webster Ltd 1 x 1135 m ³ /h oil/water separator 1 x 80 m ³ /h oil/water separators	Oil and Gas
40	North Sea	Arco British/Arco British Internals for CPI unit	Oil and Gas
41	North Sea	Atlantic Richfield/Global Engineering Ltd Three-phase separator 33 m ³ /h	Oil and Gas
42	North Sea, Fulmar	Shell Exploration & Production/McDermott Hudson Ltd 2 x 265 m ³ /h pressure oil/water separators	Oil and Gas
43	North Sea, Indefatigable Field	Shell Exploration & Production Ltd 1 x 20 m ³ /h drains separator Tilted plate separator	Oil and Gas
44	North Sea, Odin Field	Esso (U.K.) Ltd/McDermott Engineering Ltd Tilted plate separator	Oil and Gas
45	North Sea, Tern Field	Shell Exploration & Production Ltd/Humphreys & Glasgow Ltd Drains separator 50 m ³ /h	Oil and Gas
46	Russia, Antipinskiy	Petrofac LLC/Esmil Design, procurement & supply a plant to remove oil & dissolved salts from desalter effluent. The plant comprises 2 x 100% identical streams, each rated for approx. 110 m ³ /day over a 20 h period	Oil and Gas
47	Saudi Arabia, Jeddah	Petromin/Sete Consultants 1 x 100 m ³ /h oil/water separator	Oil and Gas
48	Scotland, Flotta	Occidental Oil/Brown & Root Ltd 2 x 400 m ³ /h oil water separators	Oil and Gas
49	UAE, Abu Dhabi	Abu Dhabi Natl. Oil Monarch/Corp./Fluor (GB) Ltd Suspended solids removal using oil/water separators	Oil and Gas
50	UK, Aldermaston	British Pipeline Agency/British Pipeline Agency 2 x 120 m ³ /h oil/water separators	Oil and Gas
51	UK, Barrow-in-Furness	Vickers Shipbuilding & Eng./Matthew Hall Ltd Submarine Servicing / 2 x 15 m ³ /h mixed bed demineralisers & associated pre-treatment plant	Softening and Demineralisation
52	UK, Dorset, Wytch Farm	B.P. Petroleum Developments Ltd/Foster Wheeler Energy Ltd Contract to design, engineer & supply a plant to treat backwash water arising from produced water re-injection filters, including a dissolved fuel gas flotation unit feeding 2 centrifuges. The plant handles 65 m ³ /h of dirty backwash water	Oil and Gas
53	UK, Dorset, Wytch Farm	B.P. Petroleum Developments Ltd/Foster Wheeler Energy Ltd Similar contract as above treating backwash water from sea water injection filters, using a dissolved air flotation unit & 2 centrifuges	Oil and Gas



54	UK, Easington	British Gas Corp/Stone & Webster Ltd Tilted plate separator	Oil and Gas
55	UK, Grangemouth	B.P. Trading Ltd/Davy McKee Ltd 1 x atmospheric tilted plate oil/water separator	Oil and Gas
56	UK, Llandarcy	British Petroleum PLC/C.H. Dobbie & Ptnrs Desalter waste water 2 x 40 m ³ /h oil separators followed by dissolved air flotation 2 x 120 m ³ /h oil/water separators	Oil and Gas
57	UK, Stanlow	Shell UK Oil Ltd/M W Kellogg Ltd 3 x corrugated plate interceptor units designed to treat 140 m ³ /h of oily waste water	Oil and Gas
58	UK, Wolverhampton	Tyrolisis Ltd Foster Wheeler Power/Products Ltd 1 x 76 m ³ /h Monarch Mona Cross CIP oil/water separator	Oil and Gas
Filtering Systems			
59	Austria, Hallein	Binder-Holz GmbH/Monsanto MDF Effluent / Turnkey project for treatment & recovery of & Waste Water highly contaminated waste stream. Treatment comprised of flocculation/dewatering/multi-media filtration/membrane treatment & activated carbon filtration to reduce COD from 24,000 mg/l to less than 100 mg/l	Wood Processing and Panel Board Production
60	Ecuador	Central Equadorian Petroleum Corp/Chiyoda Chemical Engineering Corp Oil Refinery / 455 m ³ /h clarification/filtration 120 m ³ /h demineralisation 270 m ³ /h cooling water filters 138 m ³ /h dissolved air flotation	Oil and Gas, Softening and Demineralisation
61	France, Sedan	Unilin SA/Esmil MDF Effluent & Waste Water Treatment / Turnkey project for treatment & recovery of highly contaminated waste stream. Treatment comprised of flocculation/dewatering/ multi-media filtration/membrane treatment & activated carbon filtration to reduce COD from 24,000 mg/l to less than 100 mg/l	Wood Processing and Panel Board Production
62	France, St. Nazaire	Holland America Line chantiers de Atlantique for Cruise Ships Drinking Water from Seawater	Seawater Treatment
63	Germany, Lampertswalde	Kronospan GmbH/Esmil MDF Effluent & Waste Water Treatment / Turnkey project for treatment & recovery of highly contaminated waste stream. Treatment as for the Binder-Holz plant above	Wood Processing and Panel Board Production
64	India, Auriya	Gas Authority of India Ltd/Paramount Pollution Control Ltd Condensate Treatment / 2 x Contaminated Condensate Treatment Plants for 190 m ³ /h comprising of activated carbon filters/cation exchangers & mixed	Oil and Gas
65	India, Gandhar	India Petrochemicals/Paramount Pollution Control Ltd IPCL Gandhar / 3 x 150 m ³ /h demineralisation streams comprising of dual media filters/weak acid cation strong acid cation/degassers/ weak anion/strong anion & mixed bed polishers. System is controlled by latest SCADA control including DCS	Pharmaceutical, Softening and Demineralisation
66	Indonesia, Bontang	Pertamina/Bechtel (GB) Ltd Oil Refinery / 91 m ³ /h boiler feed water demin. plant preceded by 3 x iron removal pressure filters	Oil and Gas, Boiler Feed Production
67	Iraq	State Company for Oil & Petroleum/A.G. Rosetti Eng. SpA Oil Refinery / 4 X 83 m ³ /h deep bed filters for oil well water flood injection	Oil and Gas
68	Luxembourg, Sanem	Kronospan Sanem et Cie/Esmil MDF Effluent & Waste Water / Turnkey project for treatment & recovery of highly contaminated waste stream. Zero Discharge Process	Wood Processing and Panel Board Production, Zero Discharge Process
69	Pakistan	Natl. Refinery Corp of Pakistan/British Petroleum PLC Media filter design & internals, control panel, valves, etc.	Oil and Gas
70	Portugal, Porto Sando Island	Regional Government of Madeira Drinking Water from Seawater	Seawater Treatment
71	Portugal, Tomar	Fabricas Mendes Boiler Feed Water	Food Industry, Boiler Feed Production



72	Saudi Arabia, Rabigh	Petrola International SA/Sete International SA Oil Refinery Complex / A plant to provide chemical dosing & chlorination facilities to a desalinated potable water supply. The equipment provides for demineralisation, sterilisation & activated carbon filtration to treat a flow rate of some 300 m ³ /h	Oil and Gas, Seawater Treatment
73	Thailand	Nobel Explosives/Tate & Lyle Agri-Business Ltd Explosives Factory / 1 x clarifier & 3 x rapid gravity filters designed to produce 215 m ³ /h of potable quality water, complete with chemical dosing & sludge handling equipment. 1 x fully automatic base exchange unit designed to produce 25 m ³ /h of boiler feed water	Chemical Industry, Softening and Demineralisation
74	Turkey, Gemlik	Azot-Sanayii T.A.S./M W Kellogg Ltd Ammonia Complex / Complete process water treatment comprising: Clarification & filtration for 830 m ³ /h demineralisation for 280 m ³ /h condensate polishing for 195 m ³ /h	Chemical Industry
75	UAE, Abu Dhabi	Abu Dhabi National Oil Corp./M W Kellogg Ltd Oil Refinery (Umm Al Nar) / Spent caustic oxidation systems including 1 packed tower & 3 iron removal pressure filters	Oil and Gas
76	UAE, Abu Dhabi, Thamamma	Abu Dhabi National Oil Co./Fluor (GB) Ltd. Oil Refinery / 2 x 330,000 kg/h tray type de-aerators for boiler feed	Oil and Gas, Boiler Feed Production
77	UK, Aldermaston	Ministry of Defence/Property Services Agency Atomic Weapons / 2 x complete plants - 2 x 20 m ³ /h & 3 x 20 m ³ /h streams demineralisation for boiler feed	Boiler Feed Production
78	UK, Barrow-in-Furness	Vickers Shipbuilding & Eng./Matthew Hall Ltd Submarine Servicing / 2 x 15 m ³ /h mixed bed demineralisers & associated pre-treatment plant	Softening and Demineralisation
79	UK, Hull	B.P. Chemicals Ltd/B.P. Chemicals Ltd Chemical Factory / Upgrading, conversion & automation of 3 x de-alkalisation units, using the UPCORE packed bed process. Capacity 136 m ³ /h per stream. The contract also included full erection within limited shut down periods & remote data transmission facilities via modems & a landline	Chemical Industry
80	UK, Wrexham	Kronospan Ltd/Esmil MDF Effluent & Waste Water Treatment / 2nd Plant at Kronospan, Wrexham as per above.	Wood Processing and Panel Board Production
81	UK, Wrexham	Kronospan Ltd/Esmil MDF Effluent & Waste Water Treatment / Turnkey project for treatment & recovery of highly contaminated waste stream. Treatment comprised of flocculation/dewatering/ multi-media filtration/membrane treatment & activated carbon filtration to reduce COD from 24,000 mg/l to less than 100 mg/l	Wood Processing and Panel Board Production
82	Zimbabwe, Wankie	Electricity Supply Commission/Merz & McLellan Power Station / 1 x 402 m ³ /h clarification/filtration 2 x 180 m ³ /h cation/degas/anion/mixed bed 1 x 180 m ³ /h condensate polisher HP & LP boiler chemical dosing equipment	Boiler Feed Production, Power Plants
Ion Exchange			
83	Botswana, Morupule	Botswana Power Corp/Kennedy & Donkin Power Station / 144 m ³ /h filtration; 2 x 45 m ³ /h demineralisation, comprising cation/degasser/anion/mixed bed	Power Plants
84	Croatia, Zagreb	INA-Naftaplin/Pritchard-Rhodes Inc Ethylene Complex / 2 x 100% duty streams producing 100m ³ /h of demineralised water. Regeneration equipment, bulk chemical storage & an effluent treatment facility is also included	Oil and Gas, Softening and Demineralisation
85	Cyprus	Zemco Ltd/Costas V Philippou - 4 x automatic base exchange softeners	Softening and Demineralisation
86	India, Auriya	Gas Authority of India Ltd/Paramount Pollution Control Ltd Condensate Treatment / 2 x Contaminated Condensate Treatment Plants for 190 m ³ /h comprising of activated carbon filters/cation exchangers & mixed	Oil and Gas
87	India, Gandhar	India Petrochemicals/Paramount Pollution Control Ltd IPCL Gandhar / 3 x 150 m ³ /h demineralisation streams comprising of dual media filters/weak acid cation strong acid cation/degassers/ weak anion/strong anion & mixed bed polishers. System is controlled by latest SCADA control including DCS	Pharmaceutical, Softening and Demineralisation
88	Indonesia	Dow Corning Corp/Babcock Woodall Ltd 14 m ³ /h base exchange softener	Softening and Demineralisation



89	Indonesia	Ministry of Minerals & Mines/Rhine Schelde Verolme Machinefabriek A.G. (Black & Veach) Maura Karang Power Station / 1 x 50 m ³ /h demineralisation plant & associated regeneration equipment. Low & high pressure dosing equipment. The whole plant is controlled via a sophisticated automatic water quality analyser	Mining Industry
90	Indonesia, Bontang	P.T. Pupik Kalimantan, Timur/Chiyoda Chemical Engineering Corp Oil Refinery / A 2-stream demineralisation plant with an output of 65 m ³ /h per stream. Each stream comprises co-flow cation & mixed bed units with a common degasser tower. The plant is complete with fully automatic regeneration equipment & effluent neutralisation	Chemical Industry, Oil and Gas
91	Korea	Korea Engineering Ltd Process Water / Internals & design package for conversion of demineralisation unit to UPCORE op.	Softening and Demineralisation
92	Philippines	Nobel Explosives/Davy McKee (London) Ltd Explosives Factory / 5 m ³ /h filters/demineralisation/deaerator & dosing	Chemical Industry
93	Saudi Arabia, Rabigh	Petrola International SA/Sete International SA Oil Refinery Complex / A demineralisation & condensate de-oiling plant designed to treat 300 m ³ /h of make-up water & 240 m ³ /h of condensate. A full range of automatic control & regeneration equipment is also included. The plant is fully skid mounted	Oil and Gas
94	Saudi Arabia, Rabigh	Petrola International SA/Sete International SA Oil Refinery Complex / A plant to provide chemical dosing & chlorination facilities to a desalinated potable water supply. The equipment provides for demineralisation, sterilisation & activated carbon filtration to treat a flow rate of some 300 m ³ /h	Oil and Gas, Seawater Treatment
95	Scotland, Livingston	NEC (Semiconductors) Ltd/Amec Projects Ltd Semiconductor Facility / 2 x streams each 40 m ³ /h filtration/reverse osmosis/demineralisation/ mixed bed polishing/ultra filtration, producing 18 megohm water for silicon chip manufacture	Ultra Pure Water Production, Softening and Demineralisation
96	Thailand, Sriracha	Thai Oil Refinery / Chiyoda Chemical Engineering Corp Oil Refinery / A process condensate treatment plant comprising degasser unit & 2 x 100 m ³ /h duty mixed beds, each designed to handle 20 m ³ /h of condensate. Fully automatic Regeneration equipment, bulk chemical storage & effluent neutralisation are also included	Oil and Gas
97	UK	Loders Croklaan/Esmil Chem. Prod. Process Water / Refurbishment & resin supply for demineralisation plant	Chemical Industry
98	UK, Barrow-in-Furness	Vickers Shipbuilding & Eng./Matthew Hall Ltd Submarine Servicing / 2 x 15 m ³ /h mixed bed demineralisers & associated pre- treatment plant	Softening and Demineralisation
99	UK, Dagenham London	Loders & Nucoline Ltd/May & Baker Ltd Food Industry Pharmaceutical / 1 x 78, 912 kg/h de-aerator 1 x stream 40 m ³ /h cation/degass/anion demineralisation for boiler feed	Boiler Feed Production, Food Industry
100	UK, Immingham	Norsk Hydro Fertilisers Ltd/Davy McKee (London) Ltd Fertiliser Factory / A single stream demineralisation plant incorporating split flow cation & anion units with an output of 74 m ³ /h	Softening and Demineralisation, Agriculture
101	UK, London	British Rail Engineering Ltd/British Rail Engineering Ltd 1 x 8.6 m ³ /h automatic base exchange softener	Softening and Demineralisation
102	UK, London	Loders & Nucoline Ltd Food Industry / 2 x 95 m ³ /h dealkalisation, degasser & base exchange softener for boiler feed	Boiler Feed Production, Food Industry
103	UK, Macclesfield	ICI Pharmaceuticals Ltd/Costain Petrocarbon Ltd Pharmaceutical Factory / 15 m ³ /h purified water. B.P. System with 2 x streams demineralisation & Membrane filtration with storage & distribution	Pharmaceutical, Ultra Pure Water Production
104	UK, Silvertown	Tate & Lyle Ltd Sugar Refinery / 3 x 100 m ³ /h counterflow demineralisation using stratified cation/degasser, stratified anion for boiler feed	Food Industry



105	Zimbabwe, Wankie	Electricity Supply Commission/Merz & McLellan Power Station / 1 x 402 m ³ /h clarification/filtration 2 x 180 m ³ /h cation/degas/anion/mixed bed 1 x 180 m ³ /h condensate polisher HP & LP boiler chemical dosing equipment	Boiler Feed Production, Power Plants
106	Zimbabwe, Wankie	Zimbabwe Electricity Supply Authority/Esmil Hwange Power Station / Complete refurbishment of the pre-treatment & demineralisation boiler feed plant, including installation of new PLC systems	Power Plants, Boiler Feed Production
Membrane Systems			
107	Austria, Hallein	Binder-Holz GmbH/Monsanto MDF Effluent / Turnkey project for treatment & recovery of & Waste Water highly contaminated waste stream. Treatment comprised of flocculation/dewatering/multi-media filtration/membrane treatment & activated carbon filtration to reduce COD from 24,000 mg/l to less than 100 mg/l	Wood Processing and Panel Board Production
108	France, St. Nazaire	Holland America Line chantiers de Atlantique for Cruise Ships Drinking Water from Seawater	Seawater Treatment
109	Germany, Frankfurt	Hoechst Boiler Make-Up	Boiler Feed Production, Chemical Industry
110	Germany, Lampertswalde	Kronospan GmbH/Esmil MDF Effluent & Waste Water Treatment / Turnkey project for treatment & recovery of highly contaminated waste stream. Treatment as for the Binder-Holz plant above	Wood Processing and Panel Board Production
111	Indonesia, Bontang	Pertamina/Bechtel (GB) Ltd Oil Refinery / 91 m ³ /h boiler feed water demin. plant preceded by 3 x iron removal pressure filters	Oil and Gas, Boiler Feed Production
112	Ireland, Roscommon	Lakeland Co-op Demineralization & Concentration of Casein Whey	Protein / Whey Concentration, Dairy
113	Luxembourg, Sanem	Kronospan Sanem et Cie/Esmil MDF Effluent & Waste Water / Turnkey project for treatment & recovery of highly contaminated waste stream. Zero Discharge Process	Wood Processing and Panel Board Production, Zero Discharge Process
114	Portugal, Porto Sando Island	Regional Government of Madeira Drinking Water from Seawater	Seawater Treatment
115	Portugal, Tomar	Fabricas Mendes Boiler Feed Water	Food Industry, Boiler Feed Production
116	Russia, Antipinskiy	Petrofac LLC/Esmil Design, procurement & supply a plant to remove oil & dissolved salts from desalter effluent. The plant comprises 2 x 100% identical streams, each rated for approx. 110 m ³ /day over a 20 h period	Oil and Gas
117	Scotland, Livingston	NEC (Semiconductors) Ltd/Amec Projects Ltd Semiconductor Facility / 2 x streams each 40 m ³ /h filtration/reverse osmosis/demineralisation/ mixed bed polishing/ultra filtration, producing 18 megohm water for silicon chip manufacture	Ultra Pure Water Production, Softening and Demineralisation
118	Scotland, Nigg Bay	Britoil PLC/Highland Fabricators (Wimpey/Brown & Root) 650 m ³ /h deballast/desalter waste water plant using B.P. process	Oil and Gas
119	Spain	Interpanel SA/Esmil MDF Effluent & Waste Water Treatment / Design & engineering of 200 m ³ /day filtration & double-pass membrane plant	Wood Processing and Panel Board Production
120	Spain	Sandoz Chemicals Dye Concentration	Chemical Industry, Textile, Dyes and Laundries
121	Turkey, Gemlik	Azot-Sanayii T.A.S./M W Kellogg Ltd Ammonia Complex / Complete process water treatment comprising: Clarification & filtration for 830 m ³ /h demineralisation for 280 m ³ /h condensate polishing for 195 m ³ /h	Chemical Industry
122	UAE, Abu Dhabi, Thamamma	Abu Dhabi National Oil Co./Fluor (GB) Ltd. Oil Refinery / 2 x 330,000 kg/h tray type de-aerators for boiler feed	Oil and Gas, Boiler Feed Production
123	UK	Woodford Feeds Whey Protein Concentration	Protein / Whey Concentration, Dairy
124	UK, Aldermaston	Ministry of Defence/Property Services Agency Atomic Weapons / 2 x complete plants - 2 x 20 m ³ /h & 3 x 20 m ³ /h streams demineralisation for boiler feed	Boiler Feed Production



125	UK, Macclesfield	ICI Pharmaceuticals Ltd/Costain Petrocarbon Ltd Pharmaceutical Factory / 15 m ³ /h purified water. B.P. System with 2 x streams demineralisation & Membrane filtration with storage & distribution	Pharmaceutical, Ultra Pure Water Production
126	UK, Wrexham	Kronospan Ltd/Esmil MDF Effluent & Waste Water Treatment / 2nd Plant at Kronospan, Wrexham as per above.	Wood Processing and Panel Board Production
127	UK, Wrexham	Kronospan Ltd/Esmil MDF Effluent & Waste Water Treatment / Turnkey project for treatment & recovery of highly contaminated waste stream. Treatment comprised of flocculation/dewatering/ multi-media filtration/membrane treatment & activated carbon filtration to reduce COD from 24,000 mg/l to less than 100 mg/l	Wood Processing and Panel Board Production
128	USA, Arizona	Revlon Water for Injection	Ultra Pure Water Production
129	USA, California	Ionics Electronics Ultrapure Water Loops	Ultra Pure Water Production
130	USA, Minnesota	Separation Technology BOD Reduction of UF Permeate	Other Industries
131	USA, North Carolina	Media Technology Post D.I. Polishing	Ultra Pure Water Production
132	USA, Texas	Phelps Dodge Sulfuric Acid Clean-Up	Acid Concentration
133	USA, Vermont	Separation Technology Whey Protein Concentration	Protein / Whey Concentration, Dairy
Sludge Treatment			
134	Austria, Hallein	Binder-Holz GmbH/Monsanto MDF Effluent / Turnkey project for treatment & recovery of & Waste Water highly contaminated waste stream. Treatment comprised of flocculation/dewatering/multi-media filtration/membrane treatment & activated carbon filtration to reduce COD from 24,000 mg/l to less than 100 mg/l	Wood Processing and Panel Board Production
135	France, Sedan	Unilin SA/Esmil MDF Effluent & Waste Water Treatment / Turnkey project for treatment & recovery of highly contaminated waste stream. Treatment comprised of flocculation/dewatering/ multi-media filtration/membrane treatment & activated carbon filtration to reduce COD from 24,000 mg/l to less than 100 mg/l	Wood Processing and Panel Board Production
136	Germany, Lampertswalde	Kronospan GmbH/Esmil MDF Effluent & Waste Water Treatment / Turnkey project for treatment & recovery of highly contaminated waste stream. Treatment as for the Binder-Holz plant above	Wood Processing and Panel Board Production
137	India, Uran	Oil & Natural Gas Commission/Engineers India Ltd Effluent plant utilising B.P. process designed to treat 700 m ³ /h of oil effluents. The plant uses CPI's & filters high rate bio- filtration & sludge dewatering	Oil and Gas
138	Iraq, Al Mussaib	S.O.E. Iraq/Hyundai Power Station/Treatment for 100 m ³ /h of power station waste water comprising of oil removal by VTC/pH adjustment/coagulation/sedimentation filtration & sludge dewatering	Power Plants
139	Luxembourg, Sanem	Kronospan Sanem et Cie/Esmil MDF Effluent & Waste Water / Turnkey project for treatment & recovery of highly contaminated waste stream. Zero Discharge Process	Wood Processing and Panel Board Production, Zero Discharge Process
140	Spain	FINSA/Esmil MDF Effluent & Waste Water Treatment / Initially design & supply of 400 m ³ /day pre-treatment plant utilising chemical dosing & filter press	Wood Processing and Panel Board Production
141	Spain	Interpanel SA/Esmil MDF Effluent & Waste Water Treatment / Design & engineering of 200 m ³ /day filtration & double-pass membrane plant	Wood Processing and Panel Board Production



142	UK, Dorset, Wytch Farm	B.P. Petroleum Developments Ltd/Foster Wheeler Energy Ltd Contract to design, engineer & supply a plant to treat backwash water arising from produced water re-injection filters, including a dissolved fuel gas flotation unit feeding 2 centrifuges. The plant handles 65 m ³ /h of dirty backwash water	Oil and Gas
143	UK, Dorset, Wytch Farm	B.P. Petroleum Developments Ltd/Foster Wheeler Energy Ltd Similar contract as above treating backwash water from sea water injection filters, using a dissolved air flotation unit & 2 centrifuges	Oil and Gas
144	UK, High Wycombe	Wiggins Teape Photographic Papers Ltd Paper Mill (Glory Mill) / A design, engineering & construction management contract to provide an integrated sludge treatment plant with a capacity of 65 m ³ /h	Pulp and Paper
145	UK, Wrexham	Kronospan Ltd/Esmil MDF Effluent & Waste Water Treatment / 2nd Plant at Kronospan, Wrexham as per above	Wood Processing and Panel Board Production
146	UK, Wrexham	Kronospan Ltd/Esmil MDF Effluent & Waste Water Treatment / Turnkey project for treatment & recovery of highly contaminated waste stream. Treatment comprised of flocculation/dewatering/ multi-media filtration/membrane treatment & activated carbon filtration to reduce COD from 24,000 mg/l to less than 100 mg/l	Wood Processing and Panel Board Production
Other Technologies			
147	Australia, Melbourne	Boniac Foods Demineralization & Concentration of Sweet Whey	Protein / Whey Concentration, Dairy
148	Australia, Melbourne	Murray Goulburn Co-op Demineralization & Concentration of Sweet Whey	Protein / Whey Concentration, Dairy
149	Australia, Perth	Western Mining Process Water	Mining Industry, Metal Recovery
150	Bahrain	Bahrain National Oil Co/Caltex (UK) Ltd 2 x vertical tube coalesces, each designed to treat 210 m ³ /h of oily waste water. The plant is complete with associated pumping equipment & controls	Oil and Gas
151	Belgium, Antwerp	Solvay Pharmaceutical	Pharmaceutical, Ultra Pure Water Production
152	China	Cintic/Snamprogetti Ltd Xinjiang Petrochemical / Design, engineering, supply of spent caustic treatment plant	Chemical Industry
153	Croatia, Zagreb	INA-Naftaplin/Pritchard-Rhodes Inc Ethylene Yugoslavia / 1 x pressure deaerator with an output of 82 tonnes/h	Oil and Gas
154	Denmark	Denmark Protein Evaporator Condensate	Protein / Whey Concentration, Dairy
155	Denmark	Nestlé Cheese Whey Concentration	Protein / Whey Concentration, Dairy
156	Denmark	Pharmacosmos Water for Injection Pharmaceutical	Pharmaceutical, Ultra Pure Water Production
157	France, Sedan	Unilin SA Wood Pulp Effluent Treatment	Wood Processing and Panel Board Production
158	France, Sedan	Unilin SA II MDF Effluent & Waste Water Treatment / Phase Two	Wood Processing and Panel Board Production
159	Germany, Hamburg	Valvo, Hamburg Process Water	Ultra Pure Water Production
160	Germany, Hanover	Veltin Dealcoholization of Beer	Beer and Beverage
161	Germany, Lampertswalde	Kronospan GmbH Wood Pulp Effluent Treatment	Wood Processing and Panel Board Production



162	Greece, Athens	Petrola Hellas S.A. Oil Refinery (Elefsis) / Design, engineer & supply of complete refinery effluent treatment plant, incorporating the BP effluent treatment process. Integration of the new facilities into the existing treatment units at the refinery. Design of all process, civils, mechanical & electrical/control equipment. Supply of all mechanical & electrical equipment. Flow rate 90 m ³ /h comprising refinery effluent streams & ballast water	Oil and Gas
163	Holland, Arnhem	AKZO, Arnhem Process Water	Chemical Industry
164	India	Gas Authority of India Ltd/Esmil UPPC Petrochem / Complex MDF Effluent/Design & engineering of a complete spent caustic treatment facility	Oil and Gas
165	India, Hazira	Paramount Pollution Ltd/Paramount Pollution Control Ltd. Hazira Refinery / Design of spent caustic oxidation control plant.	Oil and Gas
166	Iran, Tabriz	Iran Tractor Manfg. Cy Process Water	Metal Processing and Finishing
167	Iraq, Basrah	Basrah Process Water	Other Industries
168	Iraq, Kerbala	Kerbala Process Water	Other Industries
169	Iraq, Najaf	Najaf Process Water	Other Industries
170	Ireland	Shannonside Co-op Demineralization & Concentration of Casein Whey	Protein / Whey Concentration, Softening and Demineralisation
171	Ireland, Aughinish Island	Alumina Contractors Ltd/Preece Cardew & Ryder Ltd Aluminium Smelter - 3 x 171 m ³ /h de-alkalisation, degasser, organic scavenger, cation, anion & effluent neutralisation	Metal Processing and Finishing
172	Ireland, Waterford	Waterford Co-op Demineralization & Concentration of Casein Whey	Protein / Whey Concentration, Dairy
173	Italy, Biella	Separem SPA Wastewater Treatment	Other Industries
174	Italy, Priolo Gargallo (Siracusa) Sicilia	ISAB Oily Waste Water	Oil and Gas
175	Japan	Kurita Process Water	Other Industries
176	Japan	Mitsubishi Ultrapure Water	Ultra Pure Water Production
177	Jordan	Jordans Brewery Brew Water	Beer and Beverage
178	Korea	Hansol Paper Process Wastewater	Pulp and Paper
179	Korea	Korea Fertilizer Waste Water	Softening and Demineralisation
180	Libya	Poultry & Dairy Farms, Ghot Sultan Site Irrigation & Drinking Water	Softening and Demineralisation, Dairy
181	Libya	Poultry & Dairy Farms, Tauorga Site Process Water	Softening and Demineralisation, Dairy
182	Libya, Ras Lanuf	Libyan National Oil Corp/Stone & Webster Ltd Oil Refinery / 2 x 1, 110,000 kg/h deaerators for boiler feed	Oil and Gas, Boiler Feed Production
183	Nigeria	Ashlands Oil (Nigeria) Ltd/Single Muoy Moorings UK Design for pressure separator 30 m ³ /h	Oil and Gas
184	Nigeria, Port Harcourt	Nigerian National 17 x CPI units to treat 120 m ³ /h Petroleum Corp/Japan Gas Corp/oily waste water, 75 m ³ /h oily rain water & 300 m ³ /h ballast water	Oil and Gas, Rain Water Treatment
185	North Sea, Balmoral Field	North Sea Sun Oil Co Ltd/Bechtel (GB) Ltd 1 x 346 m ³ /h Monarch Mona Cross separator & induced air flotation units	Oil and Gas
186	Norway, Vennessla	Vennesla Kommune Lake Water Colour Removal	River Water Treatment
187	Poland, Elblag	Kronospan Sp. Z.o.o. Wood Pulp Effluent Treatment	Wood Processing and Panel Board Production
188	Poland, Elblag	Kronospan Sp. Z.o.o./Esmil MDF Effluent & Waste Water Treatment / Turnkey project for treatment & recovery of highly contaminated waste stream	Wood Processing and Panel Board Production
189	Saudi Arabia	Majama'ah Potable Water	Softening and Demineralisation



190	Saudi Arabia	Samarec Petroleum/Wastewater	Oil and Gas
191	Scotland UK, Stirling	CSC Forest Products Ltd/Esmil Zero Discharge process for MDF Effluent & Waste Water / Turnkey project for treatment & recovery of highly contaminated waste stream	Wood Processing and Panel Board Production
192	Singapore	Far East Levingston Shipbuilding Ltd Drinking Water from Seawater for Jack-Up Platform	Seawater Treatment
193	Switzerland	Sandoz Pharmaceutical Wastewater Reclamation	Pharmaceutical
194	Thailand, Sriracha	Thai Oil Refinery / Chiyoda Chemical Engineering Corp Oil Refinery / A complete refinery process & storm water treatment plant treating 240 m ³ /h at peak flow	Oil and Gas, Rain Water Treatment
195	Turkey, Gemlik	Azot-Sanayii T.A.S./M W Kellogg Ltd Ammonia Complex / Two pressure de-aerators with output of 290 tonnes/h & 94 tonnes/h respectively	Chemical Industry
196	Turkey, Gemlik	Tugsas Gubrye Sanayii A/S/M W Kellogg Ltd Ammonia Complex / Additional equipment & specialist services to enable final completion of the water treatment facilities following 6 years storage	Chemical Industry
197	UK	Coca Cola Schweppes/Taylor Woodrow Soft Drinks Waste: Mechanical & electrical supply & installation of Biothane anaerobic plant for 6.4 tons per day COD	Beer and Beverage
198	UK	NEC Livingston Process Water / Microelectronics 18M ohm	Ultra Pure Water Production
199	UK, Chirk	Kronospan Ltd Wood Pulp Effluent Treatment Zero Discharge process	Wood Processing and Panel Board Production, Zero Discharge Process
200	UK, Coryton	Mobile Oil (UK) Ltd/M.W. Kellogg Ltd Oil Refinery / 2 x 154,000 kg/h deaerators for boiler feed	Oil and Gas, Boiler Feed Production
201	UK, Macclesfield	ICI Pharmaceuticals Ltd Pharmaceutical Factory / A consultancy contract to provide advice on improvements to a purified water distribution facility	Pharmaceutical
202	UK, Nottingham	Powergen/John Brown Engineering Ltd Ratcliffe Power Station / Process design overview for the FGD waste water treatment plant	Oil and Gas, Power Plants
203	UK, Waterlooville	Hartridges (Soft Drinks) Ltd Washwater Recovery	Beer and Beverage
204	USA, California	Harris Water Commercial/Potable Water	Tap Water Production
205	USA, California	Process Scientific Plating/Metal Recovery	Metal Recovery, Metal Processing and Finishing
206	USA, California	Separation Technology Whey Protein Concentration	Protein / Whey Concentration, Dairy
207	USA, Colorado	Fort St Vrain Colloidal Iron Removal	Power Plants
208	USA, Idaho	Avonmore West Concentration of Sweet Whey	Protein / Whey Concentration, Dairy
209	USA, Iowa	AMPI Salt Whey Concentration	Protein / Whey Concentration, Dairy
210	USA, Michigan	General Motors Wastewater	Other Industries
211	USA, North Carolina	Hoechst Celanese Textile Plant Process Water	Textile, Dyes and Laundries
212	USA, South Dakota	Separation Technology BOD Reduction of UF Permeate	Other Industries
213	USA, Texas	Culligan Municipal/Potable Water	Softening and Demineralisation
214	USA, Texas	Dupont Chemicals Process & Wastewater	Chemical Industry
215	USA, Texas	Texas Instruments Ultrapure Water	Ultra Pure Water Production
216	USA, Utah	Pacific Gas & Electric Produced Water from Methane Gas Wells	Oil and Gas
217	USA, Washington	Western Filter Beverage Make-Up Water	Beer and Beverage