

REFERENCE LIST QUA-VAC VACUUM SEWERAGE SYSTEMS

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Name and type project	Vacuum sewers : in meters	No. valves	Start-up
The Netherlands :			
Bussloo - Wilp Recreation area	9.200	22	1975
Beekse Bergen Hilvarenbeek Recreation area	5.300	15	1977
De Byland - Tolkamer Recreation area	1.600	5	1975
De flaaasbloem Recreation center	2.800	13	1974
Camping Loodsmanduin, Texel Camping	3.500	18	1975
Community Heeswijk/Dinter	3.650	19	1978
Domein-Kessel	200	2	1980
Community Waspik	1.250	13	1975
Community Reusel I	2.170	9	1978
Community Gasselte	6.200	165	1978
Community Rijnsburg I	750	30	1978
Community Nes A/D Amstel	2.200	39	1978
Community Reusel II	2.150	15	1979
Community Oostburg	400	2	1979
Community Diever	2.800	26	1979
Community Finsterwolde	1.500	20	1980
Community Nes/Buren I	5.100	65	1980
Community Nes/Buren II	1.750	27	1980
Community Nes/Buren III	1.350	19	1980
Community Oud Alblas	3.100	66	1980
Community Rijnsburg II	4.150	60	1980

Name and type project	Vacuum sewers : in meters	No. valves	Start-up
Community Arkel-Kedichem	1.800	28	1981
Community Opsterland	1.750	19	1981
Community 's-Gravenzande I	5.800	62	1982
Community Polsbroek I	4.600	85	1982
Community Polsbroek II	4.800	70	1983
Community Beilen-Spier	3.200	24	1982
Community Emmen-Klazinaveen	8.400	65	1981
Community Stadskanaal	5.850	69	1982
Community Emmen	5 Systems	225	1979-1983
Community Emmen	2.100	13	1982
Community Emmen	3.500	27	1982
Community Rotterdam I	5.900	122	1982
Community Rotterdam II	3.020	74	1983
Community Almkerk	3.400	72	1982
Community Leiden	1.600	17	1982
Community Bellingwedde	5.200	68	1982
Community Bellingwedde	2.900	38	1982
Community Wateringen	3.570	70	1982
Community Akersloot	2.240	31	1982
Community Axel -I	3.100	45	1982
Community Axel -II	5.400	54	1983
Gors Kruiningen Recreation Centre	2.440	37	1983
Community Almkerk	1.850	50	1983
Community Hardinxveld- Giessendam	920	25	1983

Name and type project	Vacuum sewers : in meters	No. valves	Start-up
Community Winschoten	6.250	63	1983
Community Nieuwkoop	4.110	128	1984
Community Zevenhoven	3.800	56	1983
Community Het Bildt	5.000	57	1984
Community Hardinxveld- Giessendam	750	20	1984
Community Brandwijk	4.140	72	1984
Community Molenaarsgraaf	5.670	106	1984
Community Ottoland	1.730	30	1984
Community Benschop I	7.210	87	1984
Community Benschop II	5.520	82	1984
Community Benschop III	6.050	81	1984
Community Hardinxveld- Giessendam "Buitendams I	2.820	51	1984
Community Hardinxveld- Giessendam "Buitendams II"	3.650	65	1984
Community Zoeterwoude	4.680	88	1985
Community Lopik Phase I	1.920	34	1985
Community Hardinxveld- Giessendam	3.500	60	1985
Community Arkel-Kedichem	5.260	50	1985
Community Bedum House Boats	400	18	1985
Company Ahold BV Supermarket	250	25	1985
Company Ahold BV Supermarket	400	30	1985

Name and type project	Vacuum sewers : in meters	No. valves	Start-up
Community Oud Alblas	5.200	56	1985
Community Lopik Phase II	3.020	34	1986
Community Lopik Phase III	2.400	46	1986
Community Lopik Phase IV	5.230	64	1986
Community 's-Gravenzande II	7.500	87	1982
Community 's-Gravemzande III	3.320	61	1983
Community 's-Gravenzande IV	7.250	67	1985
Community Ottoland	980	13	1986
Recreation Heerderstrand	900	5	1980
Community Lopik-Lekdijk	7.610	63	1988
Company Ahold BV Supermarket	650	44	1988
Community Middelharnis Vacuumstation for Polluted Area	450	8 filters	1988
Community Strijen Vacuumstation for Polluted Area	800	12 filters	1989
Pelican Resort & Casino	2.800	100 VT	1989
Community Rotterdam	2.200	58	1990
Community Dirksland Vacuumstation for Polluted Area	500	8 filters	1993
Community Piershil Vacuumstation for Polluted Area	600	6 filters	1994
Community Dordrecht Vacuumstation for polluted Area	400	5 filters	1995

Name and type project	Vacuum sewers : in meters	No. valves	Start-up
Community Emmen Pilot project for connection of proceswater from Agriculture	300	2	1996
Airport Schiphol Amsterdam Vacuumstation for Polluted Area	1000	10 filters	1996
Police Building Vacuum toilet system	60	3 GWT 2 VT	1998
Community Lopik-Lekdijk Mini-Ejector station	800	10	1999
Bonaire Beach Club 10 Control Units	..	10	2006
Marina "De Ronde" Sewage suction unit boats	Type unit	1 AVR	2006
Marina Ter Apel	..	2	2006
Marina Volendam 400 Berths Ejector Station with, 14 VT / 4 GWT	300	14 + 4	2007
Community Hoogeveen (Zuid-Wolde)	Re-trofit	55	1999-2004
MOB COMPLEX - Lopik	500	8	2010
Community Lopik - Lekdijk	1200	25	2010
Community Lopik Subgemaal	1000	1 Vacuum station	2010
Community Noorderhoek		550(vacuum toilets)	2011
Community Gors Kruiningen	-	1 Ombouw station	2011
Community Sluiskil/Koewacht (extension)	349	2	2011
Community Zederik	Retrofit	10	2011
Community Aalburg	Retrofit	1	2011
Community Landerd	Retrofit	10	2011
Community Katwijk	-	1	2011
Community Stigtsevecht	Retrofit	3	2012
Community Midden Drenthe	Retrofit	5	2012
Community Hardenberg	Retrofit	4	2012
Community Soest	Retrofit	20	2011

Name and type project	Vacuum sewers : in meters	No. valves	Start-up
Community Zevenaar	-	13	2012
Belgium:			
Recr. Park Stabo Leuven	550	4	1977
Zilverstrand te Mol Recreation Area	1700	24	1990
Community Jabbeke Domain "Flaminckapark" Ejector station underground	1900	24	2001
Community Namur I	800	35	2006
Community Namur II	1500	75	2010
Australia:			
Freemantle Sailing Club	500	2	1979
Station Pier	600	22	1973
South Wharf	200	2	1971
Victoria Dock	300	8	1974
St. Kilda Pier	450	2	1975
Summerhile Mobile Home Park	2.010	47	1989
St. Kilda Peir Upgrade	450	2	1989
V-Line Carriage	520	1	1989
Tacoma	15.200	295	1990
Pinkenba	--	24	1999/2005
Brighton Pathology Lab.	300	10	2012

Name and type project	Vacuum sewers : in meters	No. valves	Start-up
U.S.A. :			
Big Bear Lake	4.615	200	1980
Oyster Point Marina	460	4	1980
Stafford Municipal	9.500	185	1983
Kingdom of Bahrain : population of 15.500 persons			
Amwaj Islands A	2.500	77	2005
Amwaj Islands B	2.200	90	2005
Amwaj Islands C	2.100	60	2005
Amwaj Islands D	2.150	36	2005
Amwaj Islands E	3.400	103	2006
Amwaj Islands M	2.500	90	2006
----- Total in one contract	14.850	456	
Canada :			
Southwestminster	40.000	1.000	1979
The District of Invermere	3.000	120	1984
Black Tusk Village	2.000	100	1983

Name and type project	Vacuum sewers : in meters	No. valves	Start-up
France :			
Juvigny I	1.100	21	1975
Juvigny II	520	18	1978
Juvigny III	460	18	1980
Souppes/Loing	1.800	18	1976
Bethisy St. Pierre	650	11	1976
Longueil-Annel I	850	39	1978
Longueil-Annel II	1.300	25	1979
Gujan/Mestras Camping	2.400	21	1980
Montalivet Camping	6.400	43	1981
Cayeux Sur Mer Camping			1981
Hostens	2.500	40	1982
Ile de Ré			1983
Le Wafou Cote d'Ivoire			1983
Bruges Le Tasta Villabois			1984
St. Pierre d'Aurillac			1984
Fossoy			1985
Hourtin Camping			1985
Biscarosse Camping			1985
Tracy le mont Community			1985
Romilly Camping			1985
Gensac Community	4.385	72	1985

Name and type project	Vacuum sewers : in meters	No. valves	Start-up
Sadirac Community		45	1985
Gironde sur Dropt Community	3.200	38	1987
Sahurs Community	2.600	40	1987
Community Touffreville	1.900	30	1988
Community Genac	4.385	72	1988/92
Community Gironde sur Dropt	1.210	13	1988
Community Sainte Terre	600	20	1989
Community Gironde sur Dropt	3.490	55	1989
Community Gironde sur Dropt 7th.	840	11	1990
Comm. Sainte Terre 4th.	900	18	1990
Community Clères	2.000	30	1991
Community Saint Aubin	600	13	1991
Comm. Sainte Terre 5/6th.	1.065	25	1991
Community Sainte Terre 7th.	1.470	30	1992
Community Gironde sur Dropt 8th.	810	11	1992
Community Daire 1st.	1.600	6	1992
Comm. St. Aubin les Elb.	800	25	1992
Community Fechain	2.800	50	1993
Community Le Havre	900	17	1993
Comm. Sainte Terre 8th.	1.505	21	1993
Art sur Meurthe	1.200	20	1994

Name and type project	Vacuum sewers : in meters	No. valves	Start-up
Community Loupian	3.650	52	1994
Community Marthon	4.100	60	1995
Community Vorreppe	3.800	54	1995
Community Le Havre Bld. Durand	1.910	28	1997
Community Pont à Mousson	350	11	1997
Community Ury	4.100	82	2002
Community Proville	970	20	2002
Community Rosoy	1.980	20	2003
Plage de Canet/Roussilon	4.600	27	2003
Community Ury	400	3	2003
Community Belz-Hameau	1.315	24	2003
Community Verberie	4.000	39	2004
Community Le Trait	3.960	40	2005
Community Bordes Aumont	4.180	64	2006
Community Namur 1	780	29	2006
Community La Montagne	1.500	25+14	2009
Community Namur 2	1.550	75	2010
Community Sahurs Rouan	Retrofit	11	2010
Aerolia	600	27	2012
Comm. Le Havre	500	4	2012
Comm. Calais	5	2012

Name and type project	Vacuum sewers : in meters	No. valves	Start-up
Switzerland :			
Wädenwil	400	6	1975
Bonstetten	150	4	1976
Yvonand	400	2	1977
Nierderried	1.200	26	1978
Oberhofen	590	17	1979
Egnach	850	20	1979
Bonstetten	500	6	1979
Mörigen	325	10	1979
Steckhorn	325	1	1979
Schenkon	2.400	26	1979
Unterseen	800	11	1979
Vinzeln	2.100	27	1980
Dübendorf	540	2	1980
Rheineck	610	12	1980
Stäfa	480	6	1981
Rorschach	140	5	1981
Benken	700	4	1981
Iseltwald	140	5	1982
Altendorf	960	5	1980
Eich	860	11	1981
Thal	150	5	1981
Iseltwald	260	12	1981
Grenchen	2.800	18	1982
Basel	835	13	1982

Name and type project	Vacuum sewers : in meters	No. valves	Start-up
Celigny	1.200	18	1982
Celigny	900	13	1982
Nottwil	700	8	1982
Nottwil	600	6	1982
Nottwil	480	7	1982
Zug	840	11	1982
Laupen	270	3	1982
Altdorf	570	8	1982
Gampelen	460	4	1983
Busskirch	630	3	1983
Basel	650	6	1983
Büren	810	8	1985
Perroy	750	11	1986
Crans	790	7	1987
Bellechasse	1.000	6	1987
Winterthur	740	8	1988
Greng	1.075	15	1988
Meyriez	1.200	19	1988
Unterbach	1.250	12	1989
Hünenberg	3.120	18	1989
Ebikon	700	8	1990
Neuenstadt	800	16	1991

Name and type project	Vacuum sewers : in meters	No. valves	Start-up
Sweden :			
Säljemar	4.000	10	1981
Sjöbo	2.200	30	1983
Simrishmn	1.700	26	1984
Täby fase I	4.600	90	1984
Täby fase II	2.200	30	1985
Markaryd	1.700	27	1985
Köping	3.200	70	1985
Vellinge Kommun Falster bo	2.100	41	1979
Lockorp Malmö Kommun	1.700	39	1983
Smygehuk Trelleborg Kommun	9.500	140	1985

Name and type project	Vacuum sewers : in meters	No. valves	Start-up
Italy :			
Palau	1.800	20	1983
Pinarolo po Comune	2.700	25	1984
Pinarolo po Comune	4.620	45	1987
Gabiano Comune	1.935	8	1985
Avenza Centro Cm.	4.000	42	1984
S,. Benedetto Comune	13.200	70	1986
S. Benedetto Comune	13.200	70	1986
Cgnana (SS)	800	10	1987
Castell. Comune	4.815	31	1987
Belfiore (MN)	1.000	40	1989
Roncoferraro (MN)	3.200	38	1989
Civitavecchia (Roma)	1.800	24	1989
Casale Monferrato Comune	17.370	107	1989
Pescara Po	1.200	12	1989
Verrua Po	2.200	50	
Genova Ist. Ital.	3.000	15	1992
Genova Ist. Tumori	6.000	50	1992
Portisco	9.000	10	1990
Roversbella (MN)	2.000	40	1991
Angiari (MN)	1.800	66	1991
Expo '92-Genova	3.000	51	1992
Alleghe (BL)	2.200	63	1992

Name and type project	Vacuum sewers : in meters	No. valves	Start-up
Carbonara I`	1.300	19	1994
Carbonara II	1.500	25	1995
Forte dei Marmi	2.500	59	1995
Torlino Vimercati	2.300	50	1997
Urbano All' Isola Della Giudecca	2.100	360	2000
Venezia		80	2003
Port of Napels		1002011	
Verrua Po2200	2.200	50	under construction
Denmark :			
Olstykke Stationavej	2.700	29	1976
Ledøje-Smørum.	370	7	1976
Aggersund	5.000	48	1976
Skanderborg	450	6	1978
Purhus	650	21	1978
Sdr. Sejerslev.	1.520	12	1978
Visby	2.210	17	1979
Vesternäs	2.000	33	1979
Gundsø Jyllinge Nord	18.000	187	1980
Hillerød	395	28	1980
Superfos	1.250	15	1980
Olstykke	1.560	10	1980
Allerød	1.110	22	1986

Name and type project	Vacuum sewers : in meters	No. valves	Start-up
Rudbol	470	6	1990
Ebeltoft	3.000	29	1991
Siltoftevje	900	12	1991
Emmerlev	3.000	27	1994
United Kingdom :			
Floatels (UK) Ltd. Floatel Northwich - Hotel	250	42	1989
Leak Commonside. Suburb	2.200	41	1991
Sibsey. Suburb	1.160	21	1991
Peterborough. Suburb	3.870	33	1991
Tydd St. Mary. Suburb	3.360	61	1991
Stickford. Suburb	4.977	72	1992
Woodhurst. Suburb	1.870	29	1993
Friskney. Suburb	5.200	104	1994
Pidley. Suburb	1.600	38	1994
ST. John's. Building	1.880	7	1996
Yarwell. Suburb	1.725	46	1996
Beeston	800	25	1996
Theddlethorpe	1.800	42	1996

Name and type project	Vacuum sewers : in meters	No. valves	Start-up
Bicker	3.550	77	1996
Yarwell	1.460	45	1996
Astwood	1.470	36	1999
Whisby	420	18	2000
Markham Moor	35	2001
Osgodby/Kirkby	2.100	56	2002
Anderby	2.500	42	2002
Louth (3 villages)	7.800	115	2003
Fosdyke	3.600	63	2003
Toynten St. Peter	2.400	42	2004
Tansor / Cotterstock	3.750	42	2005/2006
Wigsley	50	2005
South Somercotes	1.450	30	2006
Crossways	retro-fit other make	22	2008
Crossways	new extension	16	2008
Hubbert's bridge	4.750	34	2009
Saltfleetby St. Peter	6.525	100	2009
Crossways	retro-fit other make	17	2011
Crossways	retro-fit other make	17	2011
Leamington	-	1	2011
Tansor / Cotterstock	3.750	42	2011
Floatels UK			

Japan Vacuflow Reference List

Name and type project	Vacuum Sewer length (m)	Interface units	Population or Daily flow(m³)	Start-up date
"INAX Chita factory" Industry area closed to ocean ,shipping center , office , restaurant , and factories in Aichi prefecture	1,300	13	1,500 200.0 m ³ /day	July 1989
"SHIKANOSHIMA public resort" in Fukuoka prefecture	300	1	10.0 m ³ /day	April 1990
"KONDOU BOUSEKI factory" shipping center , factory dormitory, restaurant in Nagano prefecture	1,100	7	50.0 m ³ /day	April 1991
"MINAMIWAJI public resort" pool , camping-center in Hyogo prefecture	120	3	45.0 m ³	March 1991
"SHOWA ALUMINUM HIKONE factory" factory , restaurant in Shiga prefecture	1,500	11	90.0 m ³ /d	Sep. 1991
"Temporary Sewer System in Yokohama" in Kanagawa prefecture	300	52	680eq	Jan-June 1992
"Tokyo Power Station" factory , power station in Tokyo prefecture	400	2	30.0 m ³ /d	April 1992
"AIZU University" university in Fukushima prefecture	1,070	16	380.0 m ³ /d	April 1993
"Market" in Tochigi prefecture	1,300	17	360.0 m ³ /d	April 1993
"Area Iwauchi" Tanabe city , in Wakayama prefecture	350	17	524	April 1993
"Market" in Saitama prefecture	1,733	21	2270 m ³ /d	June 1994
"Area Sonohara" Tanabe city , in Wakayama prefecture	1,852	55	1,256 m ³ /d	March 1994
"Park West-South of Lake Biwa in Shiga prefecture	1,132	6	580 m ³ /d	April 1994
"Area Kamiakitsukawahigashi" Tanabe city , in Wakayama prefecture	16,671	338	1,610 m ³ /d	1996
"Area Nakahara" Tanabe city , in Wakayama prefecture	12,016	222	1,029 m ³ /d	1996
"Area Hakogawa" Mitagawa town , in Saga prefecture	8,200	150	796 m ³ /d	1996
"Tokyo Power Station" power station , in Tokyo prefecture	679	4	87 m ³ /d	1994

Name and type project	Vacuum Sewer length (m)	Interface units	Population or Daily flow(m ³ /d)	Start-up date
“Factory Tokaigomu” Komaki city , in Aichi prefecture	2,555	34	1,517 m ³ /d	1993
“MIHO Museum“ in Shiga prefecture	940	2	532.8 m ³ /d	1996
“Factory XEROX” in Kanagawa prefecture	400	5	120 m ³ /d	1995
“Nankai Train Yard” in Wakayama prefecture	12.040	8	310 m ³ /d	Oct. 1996
“Factory Tokyoseiko” in Ibaragi prefecture	1,547	17	1,000 338.4 m ³ /d	1996
“Area Kamihaya” Tanabe city , in Wakayama prefecture	16,219	218	1,225 956 m ³ /d	1998
“Area Ichinose” Kamitonda town, in Wakayama prefecture	12.070	82	1,270 991 m ³ /d	1999
“Town Nahari” in Kochi prefecture	2,450	133	429 m ³ /d	Sep. 1997
“Area Shimoono” Ube city , in Yamaguchi prefecture	16,700	78	858	Oct. 1996
“Village Yamaji” in Aichi prefecture	12,038	82	952	Apr. 2000
“Area Kumano” Hanamaki city , in Iwate prefecture	18,781	486	1,927	Oct. 1997
“Area Bou” Bounotsu city , in Kagoshima prefecture	6,500	422	998	Oct. 1998
“Area Misuugan” Tanabe city , in Wakayama prefecture	9,134	282	778	Dec. 1997
“Area Kyowahigashi” Village Minabegawamura, in Wakayama prefecture	7,490	240	424	Aug. 2001
“Area Nishiudo” Village Tatuta ,in Aichi prefecture	6,858	102	327	Apr. 2001
“Area Komoi” Village Tatsuta ,in Okayama prefecture	10,282	96	1,240 967.2 m ³ /d	Apr. 2004
“Area Terachi” Village Seto ,in Okayama prefecture	1,613	52	160 43.2 m ³ /d	Apr. 1998
“Area Yuge” Village Seto ,in Okayama prefecture	2,505	90	330 257.0 m ³ /d	Apr. 1998

Name and type project	Vacuum Sewer length (m)	Interface units	Population or Daily flow(m ³)	Start-up date
"Area Sakutaoka" Village Kujukuri ,in Chiba prefecture	12,161	184	1300 351.0 m ³ /d	Jun. 2001
"Area Ohama" Village Takuma ,in Kagawa prefecture	2,220	459	1,520 410.4 m ³ /d	Apr. 2001
"Daiwa hause Mie factory"	1,195	5	18.8 m ³ /h	Mar. 1998
"CANON Ami Factory" Camera factory in Ibaragi prefecture	190	21	13.6 m ³ /h	1997
"CANON Ueno Factory" Printer factory in Mie prefecture	600	6	37.5 m ³ /h	Feb. 1997
"Tokyo Power Station Shinagawa" power station , in Tokyo prefecture	935	7	9.4m ³ /h	May 1998
"Factory Takaoka" factory ,in Aichi prefecture	698	19	99.0 m ³ /d	Mar. 1998
"Area Katamata" Village Mutsumi , in Yamaguchi prefecture	8,863	50	200 156 m ³ /d	Nov. 1999
"Factory Nihon Denkigarasu Notogawa" factory ,in Shiga prefecture	2,462	13	99 m ³ /d	Nov. 1998
"Area Yotsue" Village Tatsuta ,in Aichi prefecture	6,033	52	880 237 m ³ /d	Oct. 1998
"Area Ushiyanihibun" Village Ariake ,in Saga prefecture	9,200	310	2,140 578 m ³ /d	Apr. 2001
"Factory Yasunaga Ueno" factory ,in Mie prefecture	541	11	44.5 m ³ /d	Dec. 1998
"Central Electric power Laboratory" Yokosuka city ,in Kanagawa prefecture	1,631	20	124 m ³ /d	Jan. 1999
"Seibunri University" university ,in Saitama prefecture	472	2	48.6 m ³ /d	Jan. 1999
"CANON Material Oita" factory in Oita prefecture	1,314	16	133 m ³ /d	1999
"Area Morikawa" Village Tatsuta ,in Aichi prefecture	10,401.1	91	1,360 1,061 m ³ /d	Mar. 2007
"CI Kasei Okayama" factory in Okayama prefecture	553	6	4.8 m ³ /h	Sep. 1999
"Area Yokotayasutomi" Masuda city ,in Shimane prefecture	13.900	300	2,400 3,432 m ³ /d	Apr. 2003
"YKK Kurobe" factory ,in Toyama prefecture	456	7	400 24 m ³ /h	Aug. 2000

Name and type project	Vacuum Sewer length (m)	Interface units	Population or Daily flow(m ³)	Start-up date
"Area Kiridoshi" Village Kamimine , in Saga prefecture	931	27	248 193 m ³ /d	Apr. 2001
A Part of Sakae-cho Tokoname, Aichi prefecture	2.129	136	15.5 m ³ /h	Apr. 2001
"Fujitsu Aizuwakamatsu" factory in Fukushima prefecture	1.020	5	19.8 m ³ /h	Mar. 2001
"Area Iwata Oka" Kamitonda town, in Wakayama prefecture	5987	94	2559 690.9 m ³ /d	Apr. 2003
"Area Takuma" Kamitonda town, in Wakayama prefecture	5.594	115	480 129.6 m ³ /d	Apr. 2004
"Area Totsui" Yura town, in Wakayama prefecture	652	36	320 86.4 m ³ /d	Apr. 2004
"Area Higashitoyama" Motosu town, in Gifu prefecture	6.508	85	490 132.3 m ³ /d	Apr. 2004
A Part of Kumayama-cho in Okayama prefecture	1.544	65	10.5 m ³ /d	Apr. 2002
"Daiwa hause Sakai factory" in Osaka prefecture	506	7	250 35 m ³ /d	Mar. 2001
"Area Takegashima" Shishikui town, in Tokushima prefecture	960	48	340 265 m ³ /d	2002
"Area Hashishita" Kitakata town, in Saga prefecture	15.250	290	1318 1028 m ³ /d	Apr. 2003
"Area Yukiura" Oseto town, in Nagasaki prefecture	2.700	260	1150 897 m ³ /d	Oct. 2003
"Area Nouse" Taku city, in Saga prefecture	6.822	112	1510 1178 m ³ /d	Feb. 2005
"Sumitomokoukan Kajima factory" in Ibaragi prefecture	1.476	11	17.0 m ³ /d	Aug. 2002
"JR Toukai Komaki Laboratory" in Aichi prefecture	1.270	11	24.0 m ³ /d	Jul. 2002
"Sankeigiken Kogyo Anou factory" in Mie prefecture	1.200	9	500 70.0 m ³ /d	2002
"Chubu International Airport" in Aichi prefecture	3.500	33	853 m ³ /d	Feb. 2005

Name and type project	Vacuum Sewer length (m)	Interface units	Population or Daily flow(m ³)	Start-up date
"Area Uchiharahigashi" Hidaka town, in Wakayama prefecture	3240	115	197.1 m ³ /d	Under construction
"Area Ta" Yuasa town, in Wakayama prefecture	4.450	146	356.4 m ³ /d	Apr. 2005
"Area Udohigashihattanwari" Village Tatsuta, in Aichi prefecture	8.425	81	326.7 m ³ /d	Mar. 2007
"Area Tanono" Onohara town, in Kagawa prefecture	3.823	43	62.1m ³ /d	Apr. 2004
"Area Shinjyo Maenoshō" Yumesaki town, in Hyogo prefecture	9.025	162	229.0m ³ /d	Apr. 2004
"Area Konokusa Maenoshō" Yumesaki town, in Hyogo prefecture	9.632	103	239.0m ³ /d	Apr. 2004
"Recycle Plaza" incineration plant in Aichi prefecture	399	10	10.2m ³ /d	Oct. 2001
"Seico Epson Apartment house" in Nagano prefecture	420	34	70.2m ³ /d	Nov. 2002
"Miyata Primary School" in Aichi prefecture	308	3	22.5m ³ /d	Aug. 2002
"YKK Makino Factory" in Toyama prefecture	1.380	20	30.0m ³ /d	Jan. 2003
"CI Kasei Shiga factory" in Shiga prefecture	1.211	27	129.0m ³ /d	Jan. 2003
"Area Sugino" Kinomoto town in Shiga prefecture	922	29	272.7m ³ /d	Apr. 2008
"Area Segi" Tokoname city in Aichi prefecture	1.810	83	16.3 m ³ /h	Apr. 2003
"Area EI" Ichinomiya town in Hyogo prefecture	5,380	227	36.9 m ³ /d	Apr. 2005
"Area Hayao " Aisai city in Aichi prefecture	14,887	86	60.8 m ³ /d	under construction
"Area Sigan" Hirata city in Shimane prefecture	10,100	142	62.4 m ³ /d	Mar. 2005

Name and type project	Vacuum Sewer length (m)	Interface units	Population or Daily flow(m ³)	Start-up date
"Area Fukuchi-toubu" Nishio city in Aichi prefecture	16,700	119	52.7 m ³ /d	Apr. 2007
"Area Narahara" Hachioji city in Tokyo	390	15	5.9 m ³ /d	Apr. 2004
"Area Kamibuchi -Manba, Kaminakagiri" Hichisou town in Gifu prefecture	2,900	72	10.1 m ³ /d	under construction
"Area Kamibuchi -Shimo-Youkaichi" Hichisou town in Gifu prefecture	2,100	26	6.8 m ³ /d	under construction
TOSTEM Corp. Maebashi factory in Gunma prefecture	450	6	—	Apr. 2004
BRIGESTONE EVER LIGHT in Mie prefecture	600	6	100.0 m ³ /h	Oct. 2004
"Area Tabuteura" Nansei town in Mie prefecture	2,420	80	172.0 m ³ /h	under construction
"Area Tatsuta" Aisai city in Aichi prefecture	10,600	73	26.8 m ³ /d	under construction
"Area Kayahara" Taga town in Shiga prefecture	3,500	73	15.6 m ³ /d	Jun. 2007
"Area Nakahaya" Tanabe city in Wakayama prefecture	1,320	72	86.4 m ³ /h	Oct. 2002
"Area Same" Taga town in Shiga prefecture	5,000	78	13.6 m ³ /d	Mar. 2008
AISIN SEIKI CO., LTD. Kise-site in Aichi prefecture	115	1	1.2 m ³ /d	Apr. 2005
Murata Machinery, Ltd. Inuyama-site in Aichi prefecture	2,100	34	38.8 m ³ /d	Oct. 2005
"Area Minamigata" Seto town in Okayama prefecture	3,000	54	10.4 m ³ /d	under construction
"Area Haya" Tanabe city in Wakayama prefecture	5,400	187	55.0 m ³ /d	under construction
"Area Uchihara-Nishi" Hidaka town in Wakayama prefecture	2,300	36	18.2 m ³ /d	under construction
Gifu Prefectural General Medical Center. in Gifu prefecture	640	13	62.0 m ³ /d	2007
"Area Ichiba" Tokoname city in Aichi prefecture	1,100	75	—	Apr. 2007
"Area Imamachi" Higashiyoga town in Saga prefecture	4,412	235	29.6 m ³ /d	2004

Name and type project	Vacuum Sewer length (m)	Interface units	Population or Daily flow(m ³ /d)	Start-up date
"Area Inuimichi" Kawazoe town in Saga prefecture	—	—	—	under construction
"Area Inoue-Nanbu" Miki town in Kagawa prefecture	—	38	20.4 m ³ /d	2007
"Area Kokubu" Hamada city in Shimane prefecture	2,708	154	33.6 m ³ /d	2006
"Area Tojima" Shinjo village in Okayama prefecture	1,110	24	2.6 m ³ /d	Dec. 2006
"Area miama" Maniwa city in Okayama prefecture	510	12	5.1 m ³ /d	Dec. 2006
"Area Shikagawa" Edajima city in Hiroshima prefecture	1,370	26	12.5 m ³ /d	Apr. 2007
"Area Kiri-hata" Saiki city in Oita prefecture	13100	237	79.2 m ³ /d	Feb. 2008
"Area Katsuyama" Maniwa city in Okayama prefecture	196	21	2.1 m ³ /d	Aug. 2007
"Area Nakagawacho" Maniwa city in Okayama prefecture	196	21	—	Aug. 2007
"Area Ushiya Nishibun" Shiroishi town in Saga prefecture	—	—	—	2009
"Area Iioka Kitahara" Kyotanabe city in Kyoto prefecture	1,434	13	—	Apr. 2009
"Area Shimoarai" Katsuyama city in Hukui prefecture	700	24	—	Apr. 2009
"Area Izichi Bantohshima" Katsuyama city in Hukui prefecture	—	—	—	under construction
"Area Shimobe" Minobu town in Yamanashi prefecture	2,126	87	—	under construction
"Area Hukuchi Chubu" Nishio city in Aichi prefecture	12,460	102	—	under construction
"Toyota Industries corp. Kariya Factory" in Aichi prefecture	2,117	22	300.0	Apr. 2009
"Area Amishiro" Yura town in Wakayama prefecture	1,682	25	—	Apr. 2008
"Area Ohbiki Kamiya" Yura town in Wakayama prefecture	10,058	217	—	under construction

Name and type project	Vacuum Sewer length (m)	Interface units	Population or Daily flow(m ³)	Start-up date
"Area Kawachi" Ikata town in Ehime prefecture	2,315	36	—	under construction
"Area Uryu" Izumo town in Shimane prefecture	1,967	76	—	under construction
"Akizuki Ammunition Depot" Etazima cityin Hiroshima prefecture	2,963	21	—	Apr.2007
"Miyagi Jail" in Miyagi prefecture	54	12	45.0	Apr.2007
"Kiryu University" Midori cityin Gunma prefecture	460	3	66.8	Apr.2008
"YKK corp. Hurumido Factory" in Toyama prefecture	2,656	28	248.8	Mar. 2008
"Area Oku" Setouchi city in Okayama prefecture	—	—	—	under construction
"Area Ohtsu" Izumo city in Shimane prefecture	—	—	—	under construction
"Area Saizu" Amakusa cityin Kumamoto prefecture	—	—	—	under construction
"Area Gochoda Tadokoro" Ureshino city in Saga prefecture	—	—	-	under construction
"Fuji Film Techno Products corp.Takematsu Factory" in Kanagawa prefecture	1,156	31	103.5	Mar. 2009
"Tokyo Electric Power Company corp.Power Plant" in Niigata prefecture	448	12	—	Oct. 2009
"Area Ooyabu" Tamano cityin Okayama prefecture	—	—	—	under construction
"Mitsubishi Mortors corp. Okazaki Factory" in Aichi prefecture	780	6	—	Apr.2010

Name and type project	Vacuum sewers : in meters	No. valves	Start-up
Hungary :			
Szentendre town	1.216	59	1986
Dunakiliti village I	4.800	115	1991
Dunakiliti village II Extension	5.700	163 15	1991 2004
----- Total one contract	----- 10.500	----- 293	
Hong Kong :			
Shui Wai. Village	2.200	37	1996
Germany :			
Teupitz	4.100	80	1997
Tornow	2.100	65	1997
Neuendorf	1.700	60	1997
Egsdorf	1.420	55	1997
Schwerin	5.500	85	1997
----- Total one contract	----- 15.155	----- 345	
Austria :			
Klagenfurt	250	9 VT / 4 GWT	1995
Blumenfreunde	2.500	64	1997
Schwendt	8.400	85	1998
Zirl	1.600	30	1999
Fritzens	1.250	29	2000

Name and type project	Vacuum sewers : in meters	No. valves	Start-up
Poland :			
Zakrzew/Milejowice	9.600	144	1998
Kabojoszowi I	--	100	1999
Kabojoszowi II	--	100	2000
Malaysia :			
Vintage Height 1	5.000	250	2001
Vintage Height 2	3.000	200	2001
Miri University Miri	1.520	24	2005
Miri University Miri 2 nd .	850	24	2006
Kuching Police Station Centre	1.855	80	2007
Shell MIRI	2.850	180	2009
Miri Police Station Centre	2.855	74	2010
Kuching Campus	2.190	46	2011
United Arab Emirates (Dubai) :			
Jumeirah Island project 1	7.000	22	2003
Jumeirah Islands Extention 15 + 16 Villas	250	2	2007
Clubhouse + Children Playground	150	2	2007
Jumeirah Island project 2	6.500	25	2003
Jumeirah Island project 3	5.800	23	2003
One & Only Hotel The Palm		12 (vacuum toilets) 2 (interface units)	2010
Jumeirah Height	2.000	12	under construction

Name and type project	Vacuum sewers : in meters	No. valves	Start-up
ABU-DHABI – U.A.E			
HQ Coastguard Abu-Dhabi	2.240	31	2008
Zayed University	3.600	75	2011
Qseewrah Palace 1	2.500	21	2010
Qseewrah Palace 2	2.300	3	under construction
RAS AL KHAIMAH - U.A.E			
Al Marjan Island Vac.sytem 1	9.875	175	2010
Al Marjan Island Vac.sytem 2	5.900	150	2011
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Total	15.775	225	
SHARJAH – U.A.E			
Retrofit Sharjah University		100	2010
Korea :			
Haeyang Plant I	3.500	12	2006
Large flow cap. systems			
Haeyang Plant II	3.500	12	2006
Large flow cap. systems			
Hyunda Shipyard I	4.850	18	2007
Large flow cap. systems			
Hyunda Shipyard II	5.850	20	2007
Large flow cap. systems			
Samsung Factory Gumi	2574	36	2008
Song Gye Village	1.469	40	2008
Chu-Pung Ryung Village	3.575	63	2009
Ai-Ui Village	1.450	42	2011
Cho Kang Village	1200	30	2011
Hyundai MIPO Dockyard	4175	24	under construction
Spain :			
Community Marxuquera:	20.540	158	2007
Montesol	460 Inhabitants	35	2007
Ejector station			

Camit Pinet 200 Inhabitants 15 2007

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Name and type project	Vacuum sewers : in meters	No. valves	Start-up
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Ermitage 195 Inhabitants 14 2007

Vacuum tank station

Xauxa 275 Inhabitants 22 2009

Ejector station

Barranco Blanco 240 Inhabitants 18 2009

Ejector station 2 x

Mollo section I,II and III 700 Inhabitants 54 2009

Vacuum tank station

Puerto de Valencio

Vacuum system 1 4.550 40 2011

Vacuum system 2 5.230 42 2011

Greece :

Faliro Marina 1051 32 2004

Alexandria Section I 11.500 240 2008

Alexandria Section II 8.500 225 2008

Total 20.000 465

Maldives :

Meedhoo Island 2.250 55 2008

Nilandhoo Island 4.800 95 2008

Manadhoo Island 4.460 100 2009

Ungoofaru Island 4.060 85 2009

Total in one contract: 15.570 335

Hithadhoo Island I 11.300 251 under construction

Hithadhoo Island II 11.250 229 under construction

Total 22.550 480

Oman :

Shirajja 1.078 65 2010

Seeq 1.946 54 2010

Al Souq 4.141 105 under construction

Venezuala :

Merida Village 5.682 156 under Construction

Name and type project	Vacuum sewers : in meters	No. valves	Start-up
Lithuania :			
Vieksniai Village	4.500	215	2011
Romania :			
Dragomiresti Vale II	3.800	86	under construction
Indonesia :			
Graha Natura	7.915	145	under construction