

## Carbonizer (Rotary/Container) Delivery Record

No.	Delivered to	Ingredient biomass	Use of biochar and other processed materials	Year	Location
1	JA Kita-ibuki(Numata town office)	Rice husk	Soil conditioner and snow melting agent	1999	Hokkaido
2	Kitamura village office	Rice husk	Soil conditioner and snow melting agent	1999	Hokkaido
3	JA Bibai	Rice husk	Soil conditioner and snow melting agent	1999	Hokkaido
4	JA Urausu	Rice husk	Soil conditioner and snow melting agent	2000	Hokkaido
5	Irabu Island	Bagasse (sugar cane residue)	Soil conditioner for sugar cane fields / Wood vinegar for agriculture	2000	Okinawa
6	Tokyo University	Brewer's grain	Research	2000	Tokyo
7	JA Ashikita	Onion/mandarin orange residue	Soil conditioner for onion fields	2001	Kumamoto
8	JA Kumamoto Uki	Vegetable residue	Mixed in compost, for farm house	2002	Kumamoto
9	Matsubara Chicken Farm	Chicken manure	Soil conditioner, for tea and vegetable fields	2002	Kagoshima
10	JA Kotonoumi	Mandarin orange residue	Soil conditioner, for mandarin orange fields	2002	Nagasaki
11	JA Sakuma	Lettuce residue	Sold to an agricultural soil production company	2003	Nagano
12	JA Ehime Taiki	Compost	Mixed in compost, to home centers	2003	Ehime
13	Anshan Yinzhu Cereals and Oils	Rice husk	Heat insulator at iron works, etc.	2003	Liaoning, China
14	Kasetsart University	Wood chips, etc.	Research	2003	Bangkok, Thailand
15	Ryuku University	Vegetable, etc.	Research (Soil conditioner for sugar cane fields / Wood vinegar for agriculture)	2003	Okinawa
16	JA Arida	Mandarin orange residue	Soil conditioner	2004	Wakayama
17	JA Dainagasaki	Vegetable residue	Soil conditioner, Moisture adjustor	2004	Nagasaki
18	Ogi town office	Bark compost	Mixed in compost	2004	Ooita
19	JA Amahigasi	Rice husk	To make high quality compost	2004	Ehime
20	Yatsuo town office	Wood chips, pruning	Soil conditioner	2004	Toyama
21	Sanwa Yuka Industrial	Drying of oil-containing sludge	Recycle of oil	2004	Aichi
22	Hokuren vegetable plant	Vegetable residue (Onion, etc.)	Soil conditioner	2004	Ibaraki
23	Iwate Welfare Federation	Used paper diapers	Deodorizer	2004	Iwate
24	Zhongsuotun Village, Anshan city	Rice husk	Gasified fuel	2005	Liaoning, China
25	H.C.Starck - V TECH Ltd.	Sludge	Tantalum recovery	2005	Tochigi
26	Meidensya Corporation	Wood chips	Research	2005	Ishikawa
27	Industrial Technology Research Institute	Bamboo	Research	2005	Taiwan
28	Miyako Island	Bagasse	Soil conditioner	2005	Okinawa
29	JA Kinosato	Pruned tree	Soil conditioner	2005	Wakayama
30	JA Nagamine	Mandarin orange residue	Soil conditioner	2005	Wakayama
31	Shibuya Kogyo Co.,Ltd.	medical waste	Research	2005	Ishikawa
32	Kureha Foods Co., Ltd.	Tofu residue	Drying, waste volume reduction	2005	Toyama
33	Kanuma City Government	Wood chips and sludge	Soil conditioner	2006	Tochigi

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34	Osaki Town office	Chicken manure	Soil conditioner	2006	Kagoshima
35	Minami-Awaji City (Yagiyogi)	Onion residue	Soil conditioner	2006	Hyogo
36	Minami-Awaji City (Kashunota)	Onion residue	Soil conditioner	2006	Hyogo
37	Minami-Awaji City (Shitoorianjuzi)	Onion residue	Soil conditioner	2006	Hyogo
38	Miyako Island Research Center	Bagasse	Gasified fuel	2006	Okinawa
39	Tianjin 1	Rice husk, Raw cotton(Leaf, Stalk)	Gasified fuel	2006	China
40	Tianjin 2	Rice husk, Raw cotton(Leaf, Stalk)	Gasified fuel	2006	China
41	Meidensya Corporation (Noto Forestry Cooperative)	Wood chips	NEDO trial	2006	Ishikawa
42	JA Fuyo	Rice husk	Soil conditioner	2006	Korea
43	Centrair (Central Japan International Airport)	Garbage	Fuel	2006	Aichi
44	Minami-Awaji City (Jindaisyake)	Onion residue	Soil improvement	2007	Hyogo
45	Minami-Awaji City (Kitaamaigano)	Onion residue	Soil improvement	2007	Hyogo
46	Miyako Island Bio-Eco System	Bagasse	Research	2007	Okinawa
47	Tokyo University	Bio-mass	Research	2007	Tokyo
48	JA Ishikawa kahoku	Rice husk	Soil improvement	2007	Ishikawa
49	A certain place	Wood etc.	Research	2007	Japan
50	Institute of Industrial Science, the University of Tokyo	Biomass	Research	2007	Nagano
51	Godo Purification Center	sewage sludge	Soil improvement	2008	Gifu
52	Hida City	Wood etc.	Materials	2008	Oita
53	Tsugaru National Land Preservation Co., LTD.	Wood etc.	Materials	2008	Aomori
54	Hirosaki University	Wood etc.	Research	2008	Aomori
55	Kyo maron	Prune residue	Materials	2008	Ibaraki
56	A certain maker	Wood chips	Electrical generation	2009	Japan
57	NORA Bio-mas Eco Fuel Noto	Wood chips	Make pellets	2009	Ishikawa
58	Jisyoen Social Welfare Co.	Wood chips	Supplying hot water	2010	Ishikawa
59	Ryukyu University	Wood chips, fruits seed	Research	2010	Okinawa
60	A certain maker	Wood chips	Electrical generation	2010	Japan
61	A certain factory	Kanaf	Industrial material	2010	Shanxi, China
62	Sanko Kogyo Co., Ltd.	Trimming tree	Waste volume reduction	2010	Okayama
63	Anshan Minghe Environmental Protection Technology Co., Ltd.	Sunflower seed	Waste volume reduction	2011	China
64	Minkan Inasaku Kenkyujo	Rice husk	Research	2011	Tochigi
65	Niigata University	Wood chip	Collection of bio-oil	2011	Niigata
66	Fukue Einou Limited private company	Momigalite (solid fuel made of rice husk)	Selling	2012	Gifu
67	Vietnam National University and HoChiMinh City University of Technology	Biomass	Research	2012	Vietnam
68	CSIC ENVIRONMENTAL CONSTRUCTION, INC.	Sludge residue	Waste volume reduction	2012	China
69	A certain maker	Rice husk	Waste volume reduction	2012	Fukui
70	Tosanshou Co., Ltd.	Wood chips	Bio-oil	2012	Akita

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71	A certain maker	Wood chips	Gasification power generation	2012	Yamagata
72	Federation of forestry cooperatives (Ishikawa)	Pellet	Heating	2012	Ishikawa
73	Nihonkaigas Co.,Ltd.	Food waste	Fermentation (for research)	2012	Ishikawa
74	Tokyo University	Soil	Decontamination	2013	Fukushima
75	Kanazawa University	Sludge	Fermentation (for research)	2013	Ishikawa
76	Nakanoto	Sludge	Fermentation (for research)	2013	Ishikawa
77	China	Livestock	Waste treatment	2013	China
78	Neonite Corporation	Wood chips	Power generation	2014	Fukushima
79	Chicken farm	Chicken manure	Fertilizer	2014	Tochigi
80	Tanakakensetu Co., Ltd.	Oyster shell	Calcined lime for construction material	2014	Ishikawa
81	Petrol China	Oil-containing sludge	Oil collection	2015	China
82	Tonookousan Corporation	Wood chips	Bio-oil collection	2015	Fukushima
83	Hytem Co., Ltd	Chicken manure	Power generation	2015	Ishikawa
84	BiogasLABO	Sludge	Fermentation (for analysis)	2015	Ishikawa
85	Japan wood energy Co., Ltd.	Woody material	Power generation	2015	Yamanashi
86	A certain company	Wood chips & fish residue	Waste treatment	2015	Norway
87	Wood processing company	Biomass boiler	Firewood drying	2015	Ishikawa
88	Tokyo University	Wood chip	Power generation (for research)	2015	Chiba
89	Tokyo Institute of Technology	Wood chip	Power generation (for research)	2016	Kanagawa
90	Kyushu University	Sludge	Fermentation & carbonization (for research)	2016	Vietnam
91	Anshan Minghe Environmental Protection Technology Co., Ltd.	Rice husk	Heat insulating material	2016	China
92	A certain maker	Certain biomass	Regeneration of activated carbon	2016	Kagoshima
93	Shiramine Firewood Association	Firewood	Forestry (product: ECO200)	2017	Ishikawa
94	A certain Indian company	Waterweed, woody biomass	Agriculture (product: ECO5000)	2017	India
95	A certain Indian company	Rice husk	Agriculture (product: MES50)	2017	India
96	JICA	Sewage sludge, vegetable waste, etc.,	Feasibility study on carbonization of various materials (product: ECO200)	2017	Kenya
97	A certain Japanese company	Certain biomass	Feasibility study on carbonization of various materials (product: ECO1000)	2018	Vietnam
98	A certain Japanese agricultural corporation	A certain herbaceous plant	Industrial consumable production (product: ECO200)	2018	Fukushima
99	Vermin processing center	Vermin (wildboar) processing residues	Agriculture (product: ECO200)	2018	Ishikawa
100	A certain confectionary company	Dewatered sludge	Agriculture (product: MES-20MC)	2018	Shizuoka
101	A certain confectionary company	Sweet product residue	Agriculture (product: MES-50BT)	2018	Shizuoka
102	JA Kitamirai	Onion skins	Renewable fuel (product: MES-50BT)	2018	Hokkaido