

Waste Business Monitor

The only source of "real time" trend data analysing global waste plant developments

AcuComm

Waste > Renewables > Energy > Profit

ALL DATA CURRENT AT

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In this month's report...

The latest waste plant developments in April 2016

- Latest Monthly Projects by Facility Type and Feedstock
- Latest Monthly Capacity by Facility Type and Feedstock
- Latest Power Generation Projects Listed by Facility Type and Feedstock
- Latest Country Focus Top Ten Countries with number and value of projects listed
- Completion Date Focus

 **ISWA**
International Solid Waste Association

Essential for waste equipment manufacturers, operators and service companies

Welcome to Waste Business Monitor.

Welcome to your complimentary issue of AcuComm's Waste Business Monitor (WBM).

WBM provides an ongoing and comprehensive analysis of current projects in the global waste industry, enabling you to establish the level of activity in the different sectors of the waste industry around the world. The data in is taken from AcuComm's Business Database. This is a database of projects compiled and maintained by us on a daily basis. The information in it – and therefore in Waste Business Monitor – is not readily available from any other source.

WBM is organised in the following sections:

The first section examines new projects reported in the latest month. It looks at the overall number and value of these, and then divides them in two ways. Each project is allocated a principal facility type, such as anaerobic digestion, gasification plant or WtE incineration plant.

Secondly, each project is allocated a principal feedstock type, such as municipal solid waste, plant biomass or food for example. Then, the waste capacity and power generation capacity of each project is examined. After this, we look at which countries are most active, and when projects are reported as being likely to complete.

I hope Waste Business Monitor is useful to you. If you have any questions or queries, or if you have a project which you would like to see included in our Business Database – free of charge – then please do get in touch

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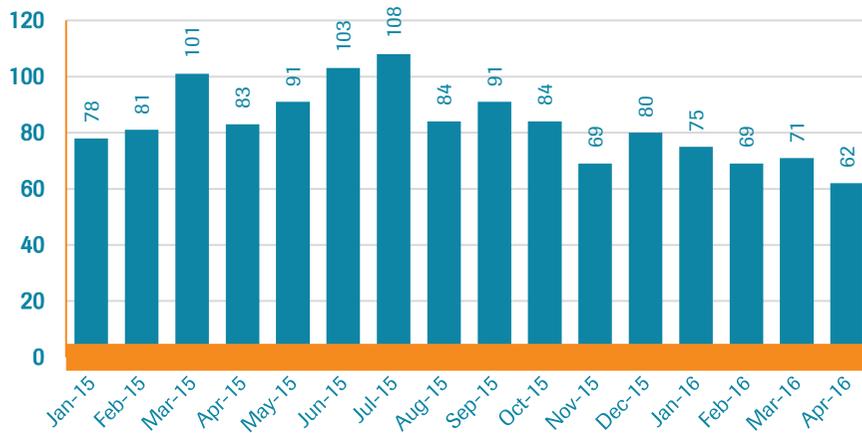
Projects This Month: April 2016

Overview

AcuComm reported on 62 new/updated waste projects in April 2016. This takes the annual number (since May 2015) to 987, and the total overall since January 2015 to 1,330. The database as a whole contains 4,026 active project investments.

Each new waste project represents on-going investment of an average of around US\$63 million.

Number of New Projects by Month



Estimated Total Value of New Projects (US\$m)



The total estimated value of these new projects is US\$3,570 million. This takes the total estimated value of projects reported since May 2015 to US\$54,898 million. The average estimated value of a waste project over this period is US\$56 million.



Recycling projects form the largest number in April 2016, accounting for 16 or 25.8% of the total. This was followed by incineration with energy recovery with 14 projects, or 22.6% of the total.



WtE incineration is the leading facility type by estimated value, at US\$1,443 million, or 40.4% of the total. This was followed by biofuel with US\$720 million, or 20.2% of the total.

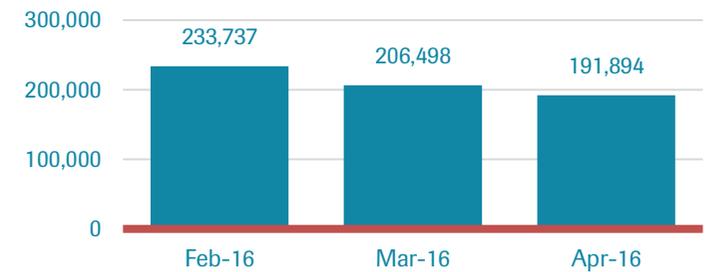
Quarterly Project Data Comparison

Key Indicators for February 2016 to April 2016

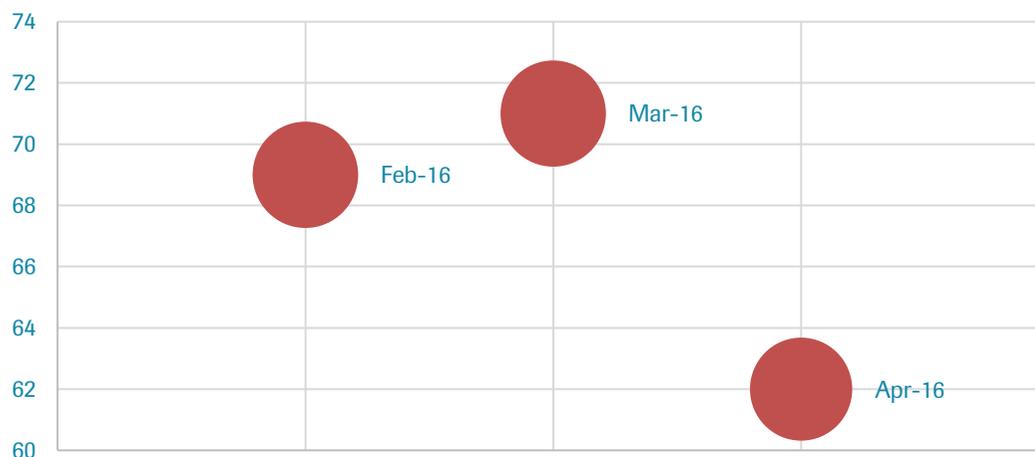
	Feb-16	Mar-16	Apr-16	Quarterly Total
Number of new projects	69	71	62	202
Total estimated value (US\$ millions)	5,038	3,537	3,570	12,146
Average value (US\$ millions)	73	50	58	60
Estimated waste capacity (tonnes)	16,127,860	14,661,340	11,897,438	42,686,638
Average annual capacity per project (tonnes)	233,737	206,498	191,894	211,320
Estimated power generation (MW)	973	999	821	2,792
Average MW per project	14	14	13	14

This page compares data on projects reported in the current month, compared with the previous two months. This provides a comparison of the most recent data, and also a quarterly total. The size of the circles in the bottom left graph represents the total estimated project values, as reported in the table on this page.

Average annual capacity per project (tonnes)



Projects by Number and Estimated US\$ Value



Average MW per project



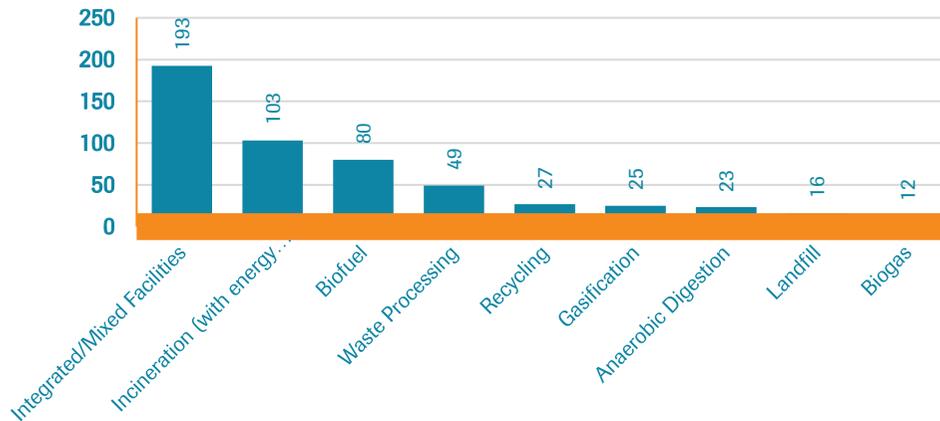
Latest Monthly Projects by Facility Type (April 2016)

	Projects	With Value (US\$m)	Reported Value (US\$m)	Total Estimated Value (US\$m)	Average value (US\$m)
Anaerobic Digestion	8	3	24	186	23
Biofuel	9	2	30	720	80
Biogas	3	2	23	36	12
Gasification	1	1	25	25	25
Incineration (energy recovery)	14	6	394	1,443	103
Incineration (no energy recovery)	0	0	0	0	-
Integrated Facilities (IWMF)	2	2	385	385	193
Landfill	3	3	47	47	16
MBT	0	0	0	0	-
Recycling	16	5	112	429	27
Waste Processing	4	0	0	197	49
Others	2	0	0	102	51
Total	62	24	1,040	3,570	58

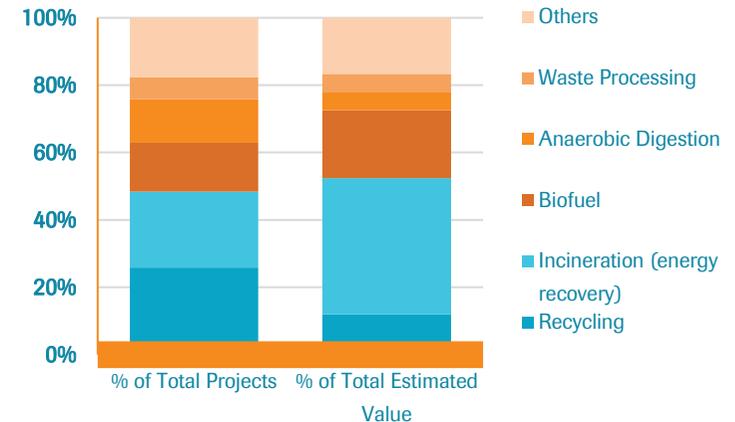
Latest Monthly Projects by Facility Type % of Total (April 2016)

	% of Total Projects	% of Total Estimated Value
Anaerobic Digestion	12.9	5.2
Biofuel	14.5	20.2
Biogas	4.8	1.0
Gasification	1.6	0.7
Incineration (energy recovery)	22.6	40.4
Incineration (no energy recovery)	0.0	0.0
Integrated Facilities (IWMF)	3.2	10.8
Landfill	4.8	1.3
MBT	0.0	0.0
Recycling	25.8	12.0
Waste Processing	6.5	5.5
Others	3.2	2.9
Total	100.0	100.0

Average Value of Projects, Apr 2016 (US\$m)



Projects By Facility Type, Apr 2016



In terms of waste feedstock type, MSW was the leading category in April 2016. MSW accounted for 16 projects (25.8% of the total) with an estimated value of US\$1,244 million (34.8% of the total).



Wood and other plant biomass were the other principal feedstocks in April 2016. These accounted for 15 projects in total, worth an estimated US\$1,144 million.



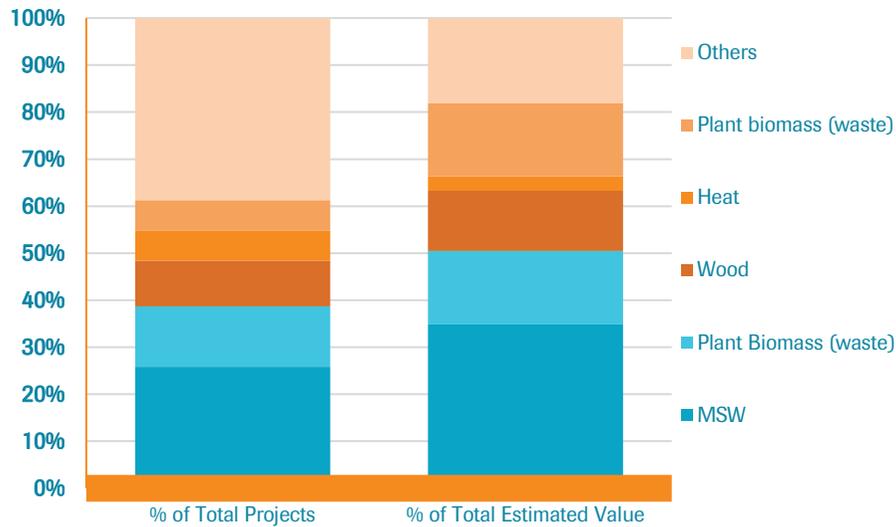
Latest Monthly Projects by Feedstock Type (April 2016)

	Projects	With Value (US\$m)	Reported Value (US\$m)	Total Estimated Value (US\$m)	Average value (US\$m)
Animal	3	3	12	12	4
Clinical	0	0	0	-	-
Construction/Demolition	0	0	0	-	-
e-Waste	0	0	0	-	-
Food	3	0	0	51	17
Gas	2	0	0	186	93
Glass	1	0	0	14	14
Hazardous	1	1	39	39	39
Heat	4	0	0	109	27
Industrial	2	1	15	97	48
Metals	0	0	0	-	-
MSW	16	7	395	1,244	78
Oil	2	1	11	42	21
Organic (general/unspecified)	4	1	7	192	48
Paper	1	0	0	91	91
Plant Biomass (non-waste)	1	0	0	128	128
Plant Biomass (waste)	8	4	148	558	70
Plastics	2	1	100	117	59
Radioactive	0	0	0	-	-
Rubber	0	0	0	-	-
Sewage/wastewater	4	0	0	174	43
Wood	6	4	303	457	76
Other	2	1	10	60	30
Total	62	24	1,040	3,570	58

Latest Monthly Projects by Feedstock Type (% of Total)

	% of Total Projects	% of Total Estimated Value
Animal	4.8	0.3
Clinical	-	-
Construction/Demolition	-	-
e-Waste	-	-
Food	4.8	1.4
Gas	3.2	5.2
Glass	1.6	0.4
Hazardous	1.6	1.1
Heat	6.5	3.0
Industrial	3.2	2.7
Metals	-	-
MSW	25.8	34.8
Oil	3.2	1.2
Organic (general/unspecified)	6.5	5.4
Paper	1.6	2.5
Plant Biomass (non-waste)	1.6	3.6
Plant Biomass (waste)	12.9	15.6
Plastics	3.2	3.3
Radioactive	-	-
Rubber	-	-
Sewage/wastewater	6.5	4.9
Wood	9.7	12.8
Other	3.2	1.7
Total	100.0	100.0

Projects By Feedstock Type, April 2016



General municipal waste accounts for a significant part of waste throughput, although it is by no means the only feedstock.



Latest Monthly Capacity

For the 62 projects listed in April 2016, AcuComm estimates total waste capacity to be 11.9 million tonnes. This is equal to an average of 195,040 tonnes per project, and an average of 609 tonnes per day per project.

WtE incineration was the largest facility type in terms of capacity, amounting to 4.3 million tonnes, or 36.0% of the total. This was followed by biofuel with 2.7 million tonnes (23.1%).



Incineration with energy recovery represented 36.0% of estimated new capacity in April 2016.

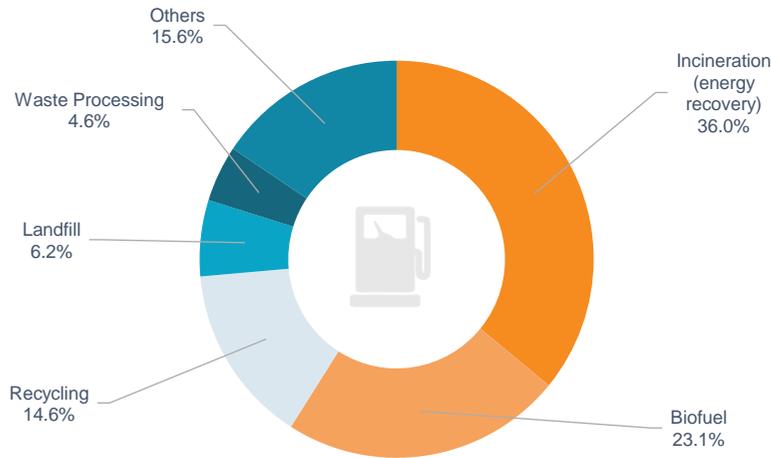
Estimated Waste Capacity of Projects Listed by Facility Type (April 2016)

	Projects	Estimated Annual Capacity (tonnes)	Average Annual Capacity (tonnes)	Average Tonnes Per Day
Anaerobic Digestion	8	485,579	60,697	190
Biofuel	9	2,743,542	304,838	953
Biogas	3	135,800	45,267	141
Gasification	1	21,900	21,900	68
Incineration (energy recovery)	14	4,277,780	305,556	955
Incineration (no energy recovery)	0	0	-	-
Integrated Facilities (IWMF)	2	177,025	88,513	277
Landfill	3	737,901	245,967	769
MBT	0	0	-	-
Recycling	16	1,736,800	108,550	339
Waste Processing	4	545,731	136,433	426
Others	2	1,035,380	1,035,380	3,236
Total	62	11,897,438	195,040	609

Estimated Capacity by Facility Type, % of Total (April 2016)

	% of Total Reported Capacity
Anaerobic Digestion	4.1
Biofuel	23.1
Biogas	1.1
Gasification	0.2
Incineration (energy recovery)	36.0
Incineration (no energy recovery)	-
Integrated Facilities (IWMF)	1.5
Landfill	6.2
MBT	-
Recycling	14.6
Waste Processing	4.6
Others	8.7
Total	100.0

% Capacity by Facility Type, April 2016



In April, Mitsubishi (MHIEC) announced contracts for two new WtE plants in China, with equipment to be supplied by Martin GmbH.

Click map for full details of each



MSW accounted for just over 3.7 million tonnes of capacity in April 2016, equal to 31.5% of the total, and an average of 731 tonnes per day. The other major feedstock categories were organic materials, plant biomass, sewage/wastewater and wood.



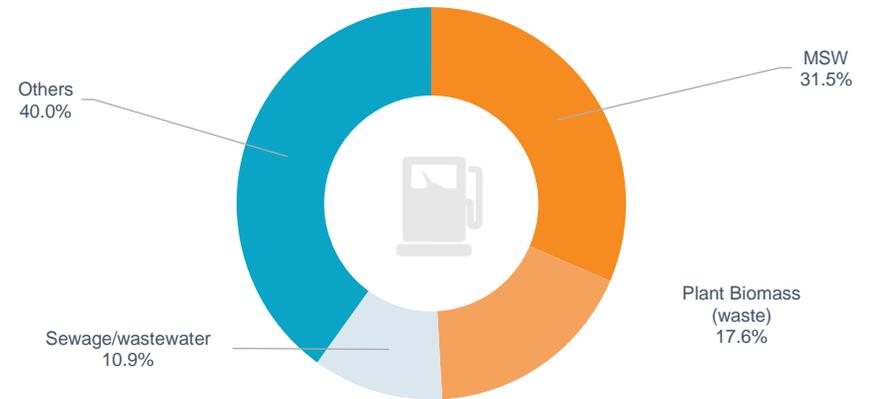
Latest Monthly Projects by Feedstock Type (April 2016)

	Projects	Annual Capacity (tonnes)	Average Annual Capacity (tonnes)	Average Tonnes Per Day
Animal	3	73,809	24,603	77
Clinical	0	0	-	-
Construction/Demolition	0	0	-	-
e-Waste	0	0	-	-
Food	3	162,754	54,251	170
Gas	2	349,147	349,147	1,091
Glass	1	124,518	124,518	389
Hazardous	1	20,000	20,000	63
Heat	4	560,624	140,156	438
Industrial	2	260,427	130,213	407
Metals	0	0	-	-
MSW	16	3,743,932	233,996	731
Oil	2	81,652	40,826	128
Organic (general/unspecified)	4	1,146,893	286,723	896
Paper	1	24,000	24,000	75
Plant Biomass (non-waste)	1	748,324	748,324	2,339
Plant Biomass (waste)	8	2,098,313	262,289	820
Plastics	2	129,504	64,752	202
Radioactive	0	0	-	-
Rubber	0	0	-	-
Sewage/wastewater	4	1,291,712	322,928	1,009
Wood	6	892,484	148,747	465
Other	2	189,344	94,672	296
Total	62	11,897,438	195,040	609

Reported Capacity by Feedstock, % of Total (April 2016)

	Capacity as % of Total
Animal	0.6
Clinical	-
Construction/Demolition	-
e-Waste	-
Food	1.4
Gas	2.9
Glass	1.0
Hazardous	0.2
Heat	4.7
Industrial	2.2
Metals	-
MSW	31.5
Oil	0.7
Organic (general/unspecified)	9.6
Paper	0.2
Plant Biomass (non-waste)	6.3
Plant Biomass (waste)	17.6
Plastics	1.1
Radioactive	-
Rubber	-
Sewage/wastewater	10.9
Wood	7.5
Other	1.6
Total	100.0

% Capacity by Feedstock, April 2016



Municipal Solid Waste accounted for 31.5% of waste capacity in projects covered in the Business Finder database in April 2016.



Latest Power Generation

In April 2016, estimated annual power generation amounted to 821 MW in total. 56.9% of this was from WtE incineration with most of the remainder coming from biofuel, worth 28.8% of the total.

Incineration amounted to 14 projects with total estimated generation of 467 MW, equal to 33 MW per plant. Biofuels amounted to nine projects, with total estimated output of 237 MW, or 39 MW per plant.



WtE incineration, whether standalone or as part of an integrated facility, continued to dominate the reported power generation of projects in April 2016.

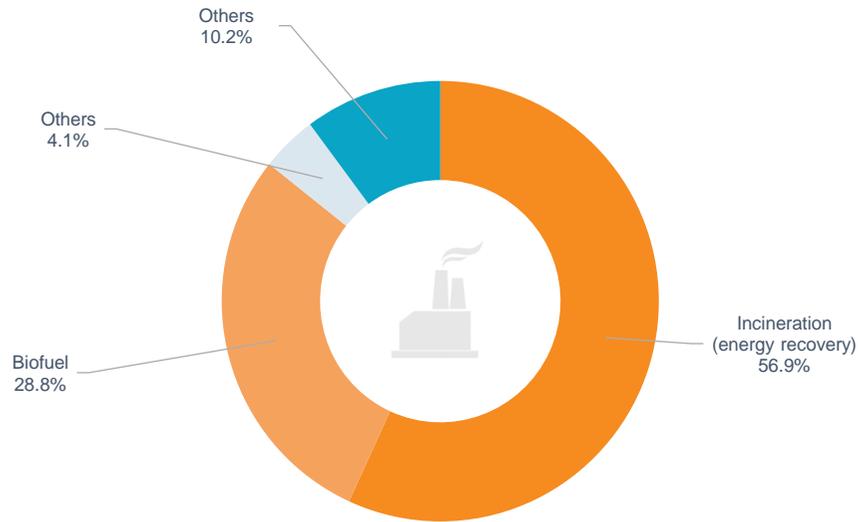
Estimated Power Generation of Projects Listed by Facility Type (April 2016)

	Projects	With Reported MW Generation	Estimated Annual MW Generation	Average MW Generation
Anaerobic Digestion	8	8	23	3
Biofuel	9	6	237	39
Biogas	3	3	12	4
Gasification	1	1	12	12
Incineration (energy recovery)	14	14	467	33
Incineration (no energy recovery)	0	0	0	-
Integrated Facilities (IWMF)	2	2	37	18
Landfill	3	0	0	-
MBT	0	0	0	-
Recycling	16	2	0	0
Waste Processing	4	0	0	-
Others	2	1	34	34
Total	62	37	821	22

Latest Estimated Power Generation by Facility Type, % of Total (April 2016)

	% of Total Projects
Anaerobic Digestion	2.7
Biofuel	28.8
Biogas	1.4
Gasification	1.5
Incineration (energy recovery)	56.9
Incineration (no energy recovery)	-
Integrated Facilities (IWMF)	4.5
Landfill	-
MBT	-
Recycling	0.0
Waste Processing	-
Others	4.1
Total	100.0

% MW Generation by Facility Type, Apr 2016



In April 2016, 56.9% of proposed power generation was through incineration, principally using wood, plant biomass, other organic materials and MSW as feedstocks.



Latest Estimated Power Generation of Projects Listed by Feedstock Type (April 2016)

	Projects	With Reported MW Generation	Estimated MW Generation	Average MW Generation
Animal	3	3	5	2
Clinical	0	0	0	-
Construction/Demolition	0	0	0	-
e-Waste	0	0	0	-
Food	3	1	2	2
Gas	2	1	34	34
Glass	1	0	0	-
Hazardous	1	0	0	-
Heat	4	2	0	0
Industrial	2	1	25	25
Metals	0	0	0	-
MSW	16	7	131	19
Oil	2	1	16	16
Organic (general/unspecified)	4	4	126	31
Paper	1	0	0	-
Plant Biomass (non-waste)	1	1	33	33
Plant Biomass (waste)	8	8	254	32
Plastics	2	0	0	-
Radioactive	0	0	0	-
Rubber	0	0	0	-
Sewage/wastewater	4	2	4	2
Wood	6	6	192	32
Other	2	0	0	-
Total	62	37	821	22

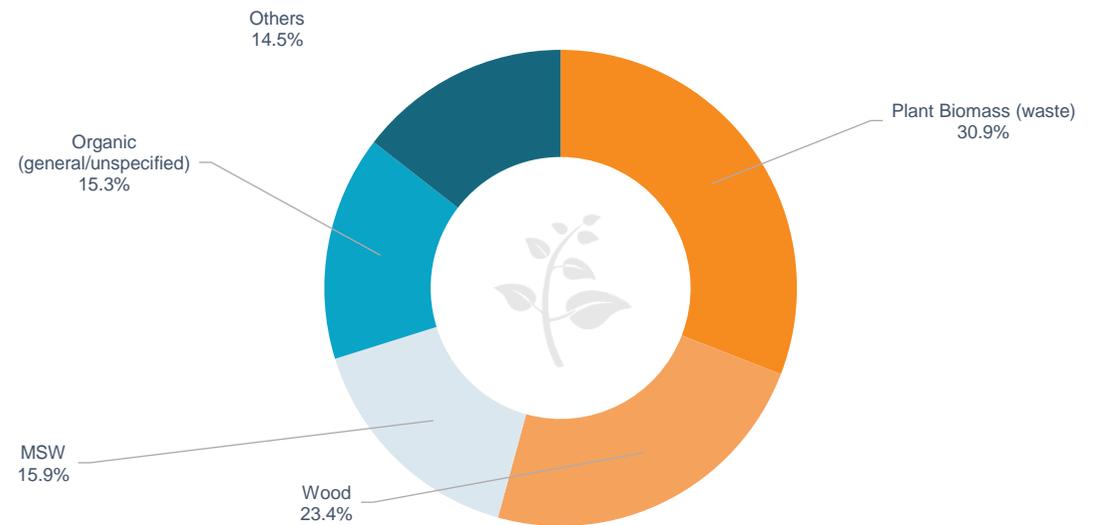
Latest Estimated Power Generation by Feedstock Type, % of Total (April 2016)

	MW Generation as % of Total
Animal	0.6
Clinical	-
Construction/Demolition	-
e-Waste	-
Food	0.3
Gas	4.1
Glass	-
Hazardous	-
Heat	0.0
Industrial	3.0
Metals	-
MSW	15.9
Oil	1.9
Organic (general/unspecified)	15.3
Paper	-
Plant Biomass (non-waste)	4.0
Plant Biomass (waste)	30.9
Plastics	-
Radioactive	-
Rubber	-
Sewage/wastewater	0.5
Wood	23.4
Other	-
Total	100.0

Biomass and wood-based materials - whether waste products or grown specially - are increasingly being used as a fuel for providing domestic power for heat and light.



% MW Generation by Feedstock Type, April 2016



Latest Country Focus

The USA was the leading country in April 2016 in terms of new projects reported, with 12 in total. This was followed by the UK with six and China with five.

In terms of estimated value, Japan was the leader, with US\$743 million or 20.8% of the total. This was followed by the USA and China with US\$636 million and US\$454 million respectively.



Significant waste investments occur not only in developed markets, but across the developing world.

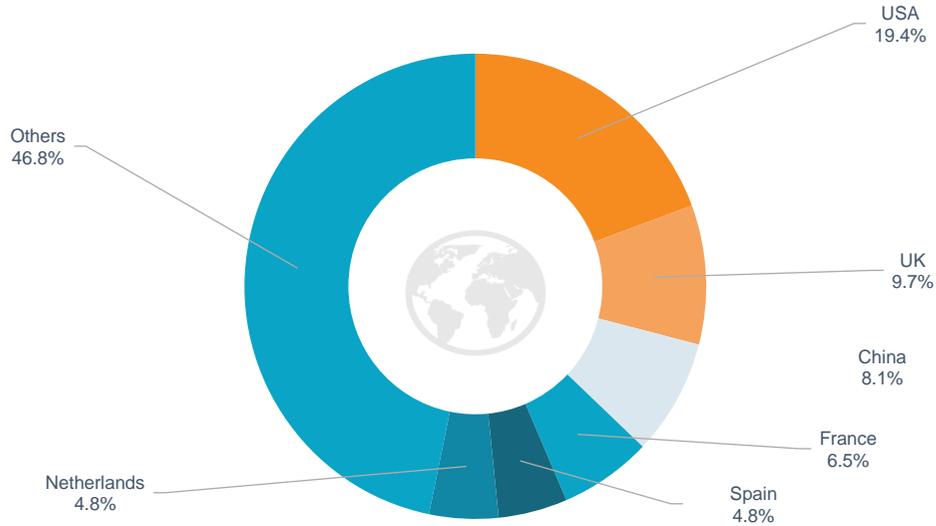
Top Ten Countries (number of projects listed), April 2016

	Projects	% of Total
USA	12	19.4
UK	6	9.7
China	5	8.1
France	4	6.5
Spain	3	4.8
Netherlands	3	4.8
Canada	3	4.8
Japan	3	4.8
Germany	3	4.8
India	3	4.8
Subtotal	45	72.6
Others	17	27.4
Total	62	100.0

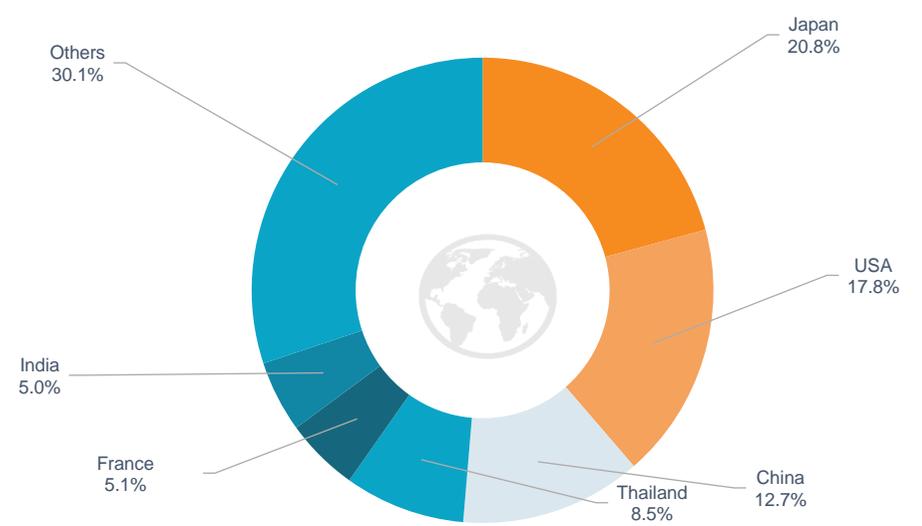
Top Ten Countries (estimated value of projects listed), April 2016

	US\$ millions	% of Total
Japan	743	20.8
USA	636	17.8
China	454	12.7
Thailand	302	8.5
France	184	5.1
India	177	5.0
Bolivia	138	3.9
Netherlands	133	3.7
Indonesia	132	3.7
Belgium	100	2.8
Subtotal	3,000	84.0
Others	571	16.0
Total	3,570	100.0

Leading Countries, Number of Projects, April 2016



Leading Countries, Value of Projects, April 2016



Operational Date Focus

Of the 62 projects reported on in April 2016, five are already in operation, valued at US\$265 million. A further 19 are estimated to become operational in 2016, worth a total of US\$760 million. For 2017, 12 projects are expected to become operational, worth US\$621 million.

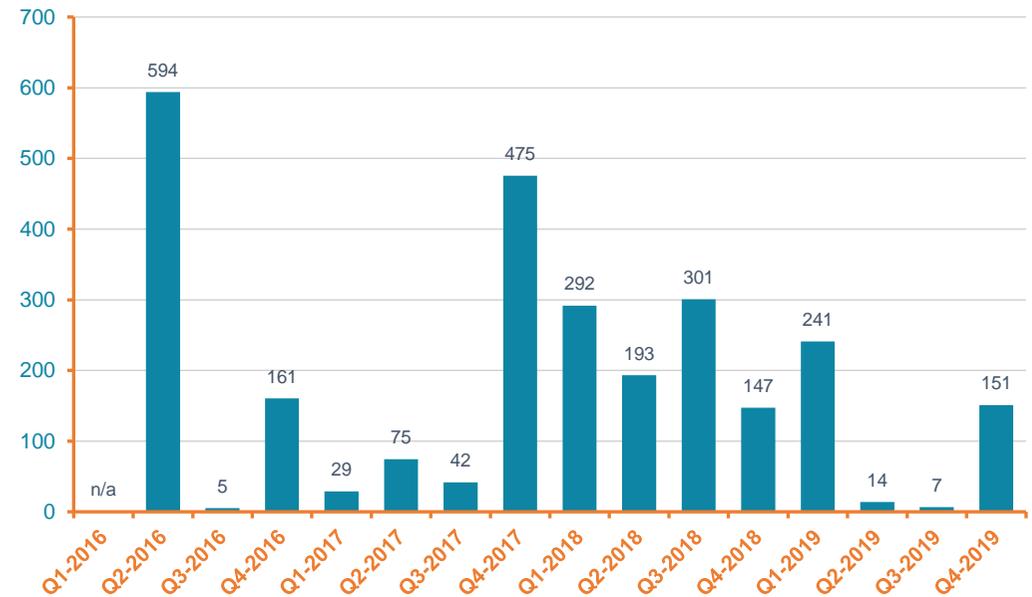


Once work starts, the average project takes around 18 months to become operational. Most, however have on-going operational requirements for much longer.

Projects by Estimated Operational Date (April 2016)

	Number of Projects	Value (US\$ millions)
Already operational	5	265
Q4-2015	0	n/a
Q1-2016	0	n/a
Q2-2016	12	594
Q3-2016	1	5
Q4-2016	6	161
Q1-2017	2	29
Q2-2017	2	75
Q3-2017	2	42
Q4-2017	6	475
Q1-2018	5	292
Q2-2018	6	193
Q3-2018	4	301
Q4-2018	2	147
2019+	9	412

Estimated Value of Investments by Operational Date, 2016-2019 (US\$ millions)



Latest Monthly Project Listings, April 2016

Country	Summary	Link
Australia	Construction of a waste-to-energy facility.	http://www.acucomm.net/business-finder/4122
Austria	Construction of a biomass heating plant.	http://www.acucomm.net/business-finder/4119
Belgium	Construction of a 100,000 tpa plastics recycling facility.	http://www.acucomm.net/business-finder/4128
Bolivia	Construction of two biomass plants.	http://www.acucomm.net/business-finder/4149
Bulgaria	Construction of a biomass plant.	http://www.acucomm.net/business-finder/4110
Canada	Proposed development of a materials recovery facility.	http://www.acucomm.net/business-finder/4098
Canada	Development of a lipid-to-hydrocarbon biofuel facility.	http://www.acucomm.net/business-finder/4115
Canada	Development of a waste fluid facility.	http://www.acucomm.net/business-finder/4135
China	Construction of a 30 MW biomass plant.	http://www.acucomm.net/business-finder/4097
China	Construction of a 30 MW biomass plant.	http://www.acucomm.net/business-finder/4099
China	Development of a hazardous waste landfill.	http://www.acucomm.net/business-finder/4121
China	Construction of a 50 MW WtE plant.	http://www.acucomm.net/business-finder/4139
China	Construction of a 25 MW WtE plant.	http://www.acucomm.net/business-finder/4141
Denmark	Expansion of two biogas plants.	http://www.acucomm.net/business-finder/4151
Finland	Construction of a waste gas-to-sulphuric acid plant.	http://www.acucomm.net/business-finder/4094
France	Construction of a C&I waste-to-SRF plant.	http://www.acucomm.net/business-finder/4095
France	Development of AD plants.	http://www.acucomm.net/business-finder/4106
France	Construction of a 63 MW biomass plant.	http://www.acucomm.net/business-finder/4126
France	Construction of a gas-to-grid AD plant	http://www.acucomm.net/business-finder/4148
Germany	Installation of a generator at a biogas facility.	http://www.acucomm.net/business-finder/4101
Germany	Upgrading of a wastewater treatment plant with anaerobic digestion unit.	http://www.acucomm.net/business-finder/4109
Germany	PET recycling facility starts operations.	http://www.acucomm.net/business-finder/4153
India	Construction of a solid waste management plant.	http://www.acucomm.net/business-finder/4102
India	Construction of an MSW management plant.	http://www.acucomm.net/business-finder/4127
India	Inauguration of demonstration 2G ethanol plant.	http://www.acucomm.net/business-finder/4145
Indonesia	Construction of a biodiesel plant.	http://www.acucomm.net/business-finder/4118
Italy	Supply of two Power+ Generators for biomass plant.	http://www.acucomm.net/business-finder/4142

Latest Monthly Project Listings, April 2016 (cont.)

Country	Summary	Link
Japan	Construction of a 75,000 kW pa biomass plant.	http://www.acucomm.net/business-finder/4113
Japan	Construction of a WtE, recycling, waste sorting and storage facility.	http://www.acucomm.net/business-finder/4129
Japan	Refurbishment of a waste-to-energy facility.	http://www.acucomm.net/business-finder/4138
Luxembourg	Conversion of a cogeneration plant to use biomass.	http://www.acucomm.net/business-finder/4136
Luxembourg	Construction of a biomass cogeneration plant.	http://www.acucomm.net/business-finder/4137
Netherlands	Opening of a waste heat plant.	http://www.acucomm.net/business-finder/4093
Netherlands	Construction of a waste coffee grounds-to-biofuel facility.	http://www.acucomm.net/business-finder/4117
Netherlands	Opening of a drinks carton recycling plant.	http://www.acucomm.net/business-finder/4152
Serbia	Development of a transfer station and waste recycling centre.	http://www.acucomm.net/business-finder/4112
Serbia	Construction of a recycling facility.	http://www.acucomm.net/business-finder/4143
Spain	Expansion of a landfill.	http://www.acucomm.net/business-finder/4092
Spain	Development of a poultry waste-fuelled biomass plant.	http://www.acucomm.net/business-finder/4146
Spain	Development of a waste-to-fuel recycling plant.	http://www.acucomm.net/business-finder/4154
Sweden	Construction of cotton clothes recycling plant.	http://www.acucomm.net/business-finder/4140
Sweden	Development of a lignin-based biofuel plant.	http://www.acucomm.net/business-finder/4150
Thailand	Development of a waste incineration plant.	http://www.acucomm.net/business-finder/4133
Thailand	Development of an MSW-fuelled waste-to-energy plant.	http://www.acucomm.net/business-finder/4134
UK	Development of a 45,000 tpd gas-to-grid AD plant.	http://www.acucomm.net/business-finder/4105
UK	Construction of a gas-to-grid AD plant.	http://www.acucomm.net/business-finder/4108
UK	Expansion of a coffee grounds-to-biofuel facility.	http://www.acucomm.net/business-finder/4114
UK	Equipping of a materials recycling facility.	http://www.acucomm.net/business-finder/4116
UK	Construction of a 0.5 MW AD plant.	http://www.acucomm.net/business-finder/4120
UK	Construction of a biogas-to-grid facility.	http://www.acucomm.net/business-finder/4124
USA	Development of a waste heat recovery system.	http://www.acucomm.net/business-finder/4096
USA	Construction of an oil recycling plant.	http://www.acucomm.net/business-finder/4100
USA	Upgrading of biosolids processing at a wastewater facility.	http://www.acucomm.net/business-finder/4103
USA	Upgrading of glass recycling facility.	http://www.acucomm.net/business-finder/4104

Latest Monthly Project Listings, April 2016 (cont.)

Country	Summary	Link
USA	Installation of a single-stream recycling facility.	http://www.acucomm.net/business-finder/4111
USA	Development of an anaerobic digestion system.	http://www.acucomm.net/business-finder/4123
USA	Expansion of a landfill liner.	http://www.acucomm.net/business-finder/4125
USA	Development of a sludge dewatering and loadout facility.	http://www.acucomm.net/business-finder/4130
USA	Provision of a biosolids drying system.	http://www.acucomm.net/business-finder/4131
USA	Development of an isobutanol pilot plant.	http://www.acucomm.net/business-finder/4132
USA	Installation of cellulosic ethanol technology.	http://www.acucomm.net/business-finder/4144
USA	Development of a pilot facility for making synthetic gasoline from biomass.	http://www.acucomm.net/business-finder/4147

Top Five Projects in April 2016, by Estimated Value (US\$ millions)

1	Japan	379	Construction of a WtE, recycling, waste sorting and storage facility.
2	Japan	213	Construction of a 75,000 kW pa biomass plant.
3	Thailand	151	Development of an MSW-fuelled waste-to-energy plant.
4	Thailand	151	Development of a waste incineration plant.
5	Japan	151	Refurbishment of a waste-to-energy facility.



Top Five Projects in April 2016, by Reported Waste Capacity (tonnes)

1	China	821,250	Construction of a 50 MW WtE plant.
2	China	441,650	Construction of a 25 MW WtE plant.
3	China	324,500	Construction of a 30 MW biomass plant.
4	China	265,800	Construction of a 30 MW biomass plant.
5	Japan	140,525	Construction of a WtE, recycling, waste sorting and storage facility.



Top Five Projects in April 2016, by Reported Power Generation (MW)

1	France	63	Construction of a 63 MW biomass plant.
2	China	50	Construction of a 50 MW WtE plant.
3	Luxembourg	40	Construction of a biomass cogeneration plant.
4	China	30	Construction of a 30 MW biomass plant.
5	China	30	Construction of a 30 MW biomass plant.



Click the flag for more information on each project

