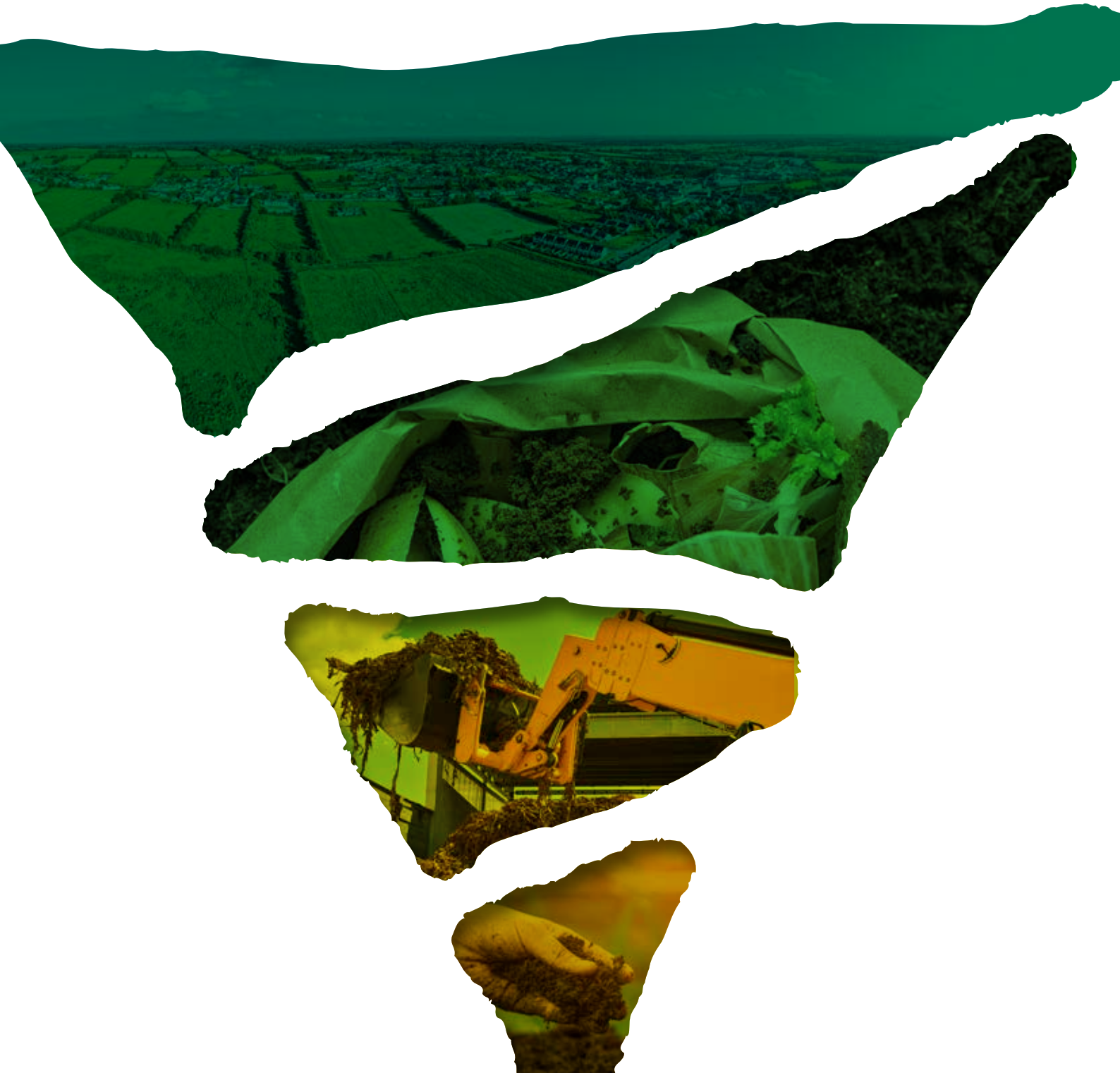
cré
Composting & Anaerobic Digestion
Association *of* Ireland

Quantity of Feedstocks Processed in Composting and Anaerobic Digestion Plants on the Island of Ireland in 2020



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Composting & Anaerobic Digestion Association *of* Ireland

Cré was established in 2001 and was formally registered as a CLG in the Republic of Ireland in 2003. Initially set up to represent the fledging composting sector and in later years developed to include anaerobic digestion in the Republic of Ireland.

We represent Irish and non-Irish members supporting their business in the Republic of Ireland under the following objectives:

- **To promote composting and anaerobic digestion in Ireland;**
- **To promote the use of quality assured compost/digestate products;**
- **To infuse best practices into the development of the industry;**
- **Promote proper management of organic waste in the business community;**
- **Promote home and on-site composting;**
- **Promote research in relevant sectors;**
- **Promote proper management of organic waste to reduce the amount of greenhouse gases generated; and**
- **Inform members on new emerging technologies.**

Limitations

Please further note that some data from the National Waste Collection Permit Office (NWCPO) was used for some plants. This data has not yet been validated by the relevant Local Authority and whilst every effort is made to ensure the accuracy of the information of this Annual Return data, it is not possible to guarantee that it is accurate in all cases. Information compiled by third parties is not necessarily correct and is provided as submitted by or on behalf of the permit holder. The fact that NWPCO have provided this data to Cré does not mean that the NWCPO accepts or agrees with it. Electronic data may also be modified or corrupted. It was not possible to source 2020 data for a small number of composting sites, in these situations 2019 data was used.

Acknowledgments

Special thank are due to National Waste Collection Permit Office, the Department of Agriculture, Environment and Rural Affairs, the Department of Agriculture, Food and Marine, Environmental Protection Agency and various plant managers for their assistance in providing data.

Contents

Definitions

Anaerobic Digestion (AD): process of controlled decomposition of biodegradable materials under managed conditions where free oxygen is absent, at temperatures suitable for naturally occurring mesophilic or thermophilic anaerobic and facultative bacteria species, that convert the inputs to biogas and whole digestate. Biogas is a methane-rich gas that can be used as a fuel while digestate is a source of nutrients that can be used as a fertiliser.

Biowaste: (brown bin) is defined as biodegradable garden and park waste, food and kitchen waste from households, restaurants, caterers and retail premises, and comparable waste from food processing plants.

Composting: process of controlled biological decomposition of biodegradable materials under managed conditions that are predominantly aerobic and that allow the development of thermophilic temperatures as a result of biologically produced heat that convert the inputs to compost and/or mulch. Composts and mulches can confer benefits to the soils and media to which they are applied and the plants those soils or media support.

Controlled Wastes: include household, industrial and commercial organic waste but does not include agricultural wastes, such as animal manures.

Garden Waste: biodegradable waste from gardens & parks.

Organic Fines: the organic residue from mechanical separation from municipal solid waste.

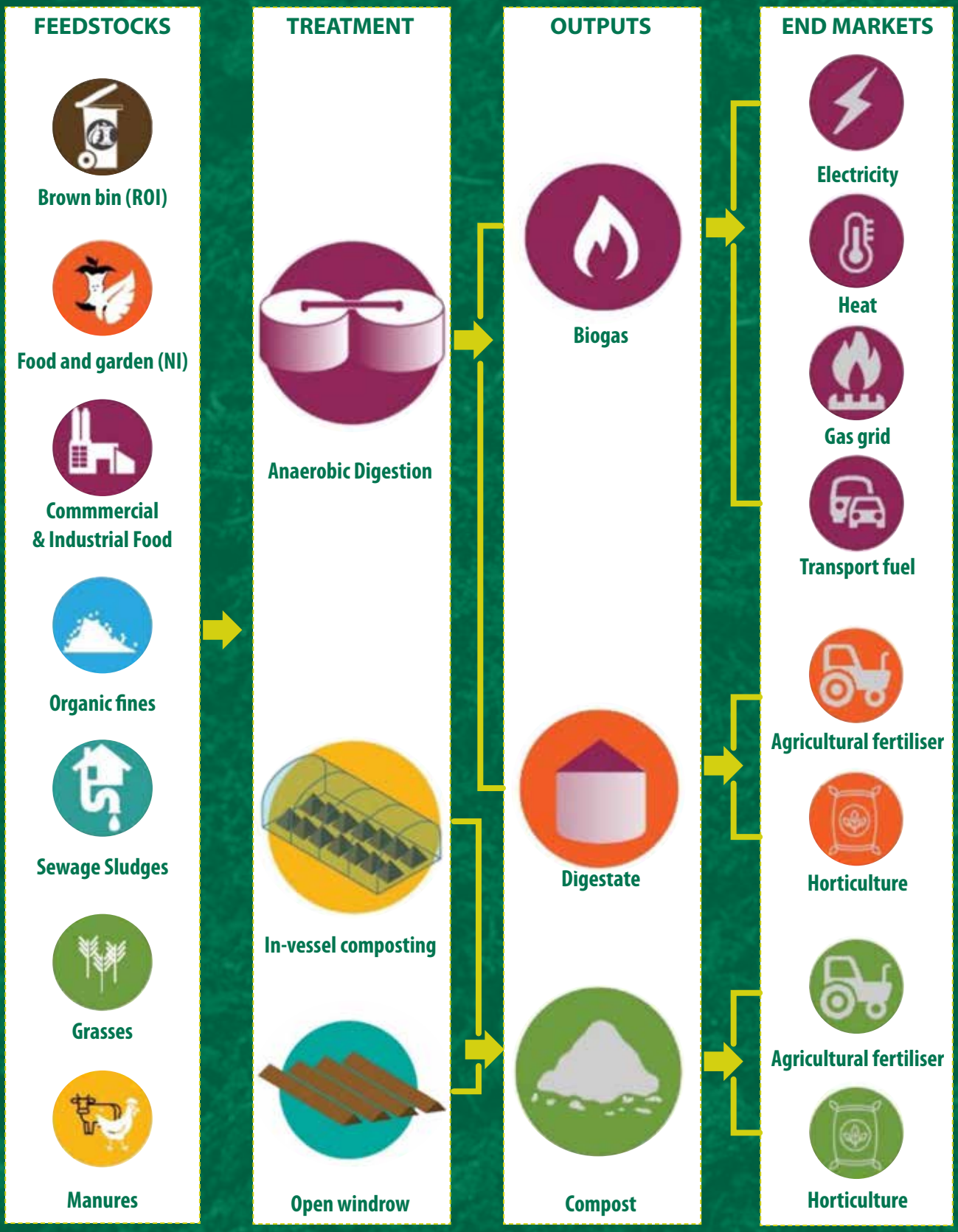
(OW) Open Windrow: composting method where windrows (piles) are formed and composted outdoors and mechanically turned.

(IVC) In Vessel Composting: a term adopted to cover a wide range of composting systems in which the material being composted is contained and enclosed.

(IVB) In Vessel Biostablisation: a term adopted to cover a wide range of composting systems in which the organic fines/ residual waste is biostabilised in an enclosed tunnel.

Ireland: Republic of Ireland, this is distinct from the island of Ireland which encompasses both the Republic of Ireland and Northern Ireland.

Overview of the Sector



1. Summary

This report examines the tonnes of 'controlled' wastes processed in composting and anaerobic digestion (AD) plants on the island of Ireland.

The focus of this report is on the amount of biowaste, garden waste and organic fines processed at licensed plants.

Number of Licensed Plants Processing Controlled Waste

Waste Type	Ireland	Northern Ireland
Biowaste	8	5
Garden waste	14	5
Organic fines / MSW	8	1 [1]
Others wastes	33	36

Tonnes of Organic Waste (not including manures) Processed in Ireland and Northern Ireland in 2020[2]

Waste Type	Ireland	Northern Ireland
Biowaste	140,686	280,496
Garden waste	48,801	53,360
Organic fines	197,127	6,504
Other wastes	214,868	393,521
Total	601,482	733,881

[1] Organic fines processed in 2020, an assumption is made that this was done in one plant

[2] Calendar year

[3] NWPP-Food-Waste-Report.pdf (epa.ie) (accessed 14 March 2022)

The total quantity of waste accepted for treatment at composting and anaerobic digestion plants in Ireland in 2020 was approx. 601,482 tonnes.

The total quantity of waste accepted for treatment at composting and anaerobic digestion plants in Northern Ireland in 2020 was approx. 733,881 tonnes. This excludes non licenced on-farm AD plants.

The predominant flow between the two jurisdictions is from Ireland to Northern Ireland, with 121,289 tonnes of organic waste exported from Ireland in 2020, compared with 28,109 tonnes imported into Ireland. Most exports from Ireland to Northern Ireland consist of separately collected food waste and brown bin material, whilst most imports are manures.

For context, the Environmental Protection Agency (EPA)[3] report estimated that Ireland generated ~1 million tonnes of food waste. Of this 553,000 tonnes was household/commercial food waste and 500,000 tonnes in the food processing and manufacturing sector.

2. Infrastructure for the Processing of Controlled Organic Waste in 2020

In 2020, there were 63 regulated plants for the processing of controlled organic waste in Ireland. These consisted of 15 In-vessel composting (IVC)[4] , 7 in-vessel biostabilisation (IVB), 14 open windrow (OW), 10 anaerobic digestion (AD) plants located on sewage treatment plants, 6 AD plants at food processing plants, 13 AD plants treating controlled waste and 1 AD plant treating manures only.

In Northern Ireland there was 47 plants sites regulated by Department of Agriculture, Environment and Rural Affairs (DAERA) (i.e. those that treat controlled wastes). Of these 38 are AD plants, 4 in-vessel composting and 5 open windrow plants. In addition, we reviewed the Office of Gas and Electricity Markets (OFGEM) online database for 2020. The data shows that there was approximately an additional 40 on-farm AD plants which were probably treating manures and energy crops.

Cré is aware that there has been significant growth in the number of AD plants that are treating agricultural feedstocks and energy crops, such as grass silage. There is no definitive source identifying the quantity of feedstock (manure/energy crops) treated in Northern Ireland AD plants, but it would be in the region of several hundred thousand tonnes.

A full list of plants in Ireland is given in chapter 7, a list of Northern Ireland plants in chapter 8 and other OFGEM reported plants in chapter 9.

2.1 Animal By Product Regulation-On-Farm AD Plants

The current policy of DAERA in Northern Ireland is that farm-based biogas plants using silage and slurry manure as feedstock do not require Animal By Product approval as these materials can be directly spread to land in their raw states. The vast majority of AD plants currently operating in Northern Ireland do not have ABP approval and fall under the remit of the Northern Ireland Environment Agency (NIEA). This position is different to the Department of Agriculture, Food and Marine (DAFM) in Ireland who require on-farm biogas plants treating manure and silage to have ABP approval. The EU ABP Regulations 1069 of 2009 state in Article 24 (g) 'Approval of establishment of plant' is needed if (g) transformation of animal by-products and/or derived products into biogas or compost. Plants processing manures/silage in Ireland operating in compliance with EU ABP Regulations should be in a strong position to take advantage of new EU Fertiliser Regulations which requires digestate processed to the EU standard, to be placed on the market as an EU Fertiliser Product.

[4] There is one small IVC plant located on a fish processing plant that composts fish waste.

3. Processed in Ireland

There is no single, comprehensive source of data on the capacity and throughput of the organic waste treatment infrastructure in Ireland. Consequently, we have reviewed annual environmental reports for plants, waste collector waste permit returns data and personal communication with plant managers to quantify the total tonnage, in particular the quantity of biowaste, garden waste and organic fines/mixed municipal waste, processed in 2020.

Tonnage Processed
The tonnage processed at the 63 plants was 601,482 tonnes in 2020. This is an increase of 14% compared to amount (528,000t[5]) processed in 2019.

The figure of 601,482 does not include (i) home composting estimates, (ii) facilities which only treated their own waste, (iii) sewage sludge generated at wastewater treatment plants which is treated in on site biogas plants (IV) composting plants composting straw & manures to produce a mushroom growing substrate. Therefore, if mushroom growing substrate was to be considered in the overall tonnage processed, an additional 173,000 tonnes could be added to the overall figure. The quantity of feedstock used in the two mushroom composting plants in 2018 is estimated to be 173,000 tonnes. This consists of the following materials:

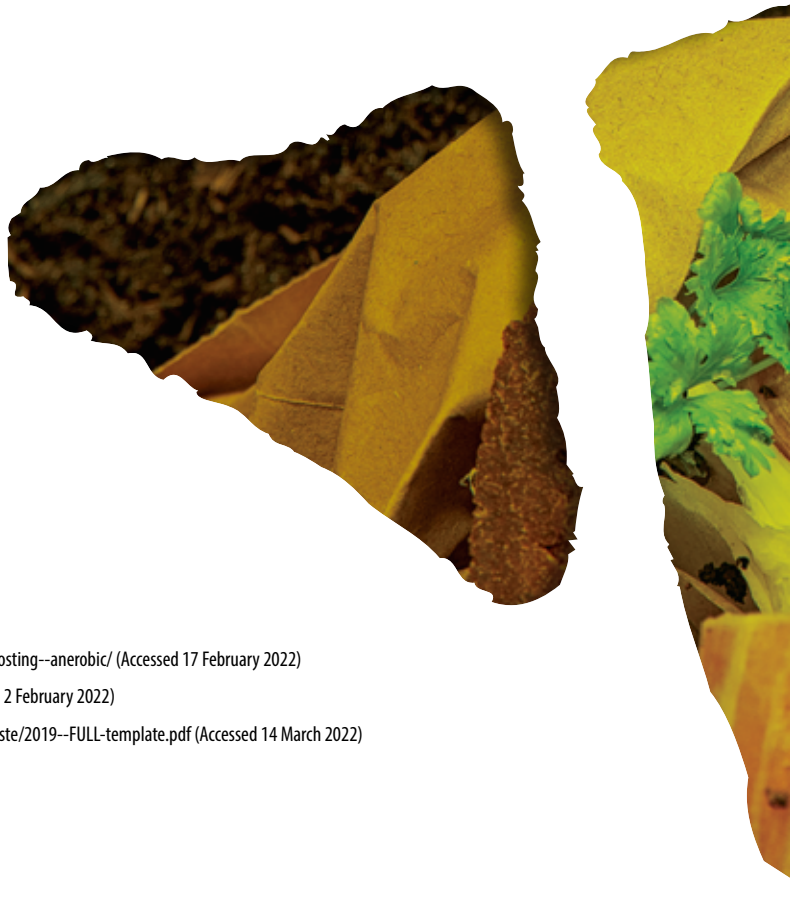
- 177,000 bales of wheaten straw. Assuming the size of the bales were 8x3x3 the estimated weight per bale was 450kg[6], in total this is approximately 80,000 tonnes of straw.
- 66,000 tonnes of chicken manure.
- 27,000 tonnes of horse manure.

Garden Waste
The total amount of garden waste (EWC[7] 200201) processed was 48,801 tonnes.

Brown Bin
The total amount of brown bin (EWC 200108) processed was 140,686 tonnes including contamination. It should be noted that according to the EPA, in 2018 household brown bins contained on average an additional 13-16% non-compostable contamination (plastics, glass, metals).

Organic Fines & Mixed Municipal Waste
The total amount of organic fines (EWC 191212) and mixed municipal waste (EWC 200301) processed was 197,127 tonnes.

Capacity
According to the data accessible to Cré, there are no sites in Ireland which currently have formal plans seeking to increase existing or build new capacity for brown bin feedstocks. This mirrors Cré Irish brown bin processor member feedback which increasingly includes concerns over a lack of available, suitable (non-contaminated) feedstocks as an on-going threat to business sustainability.



[5] https://www.epa.ie/our-services/monitoring--assessment/waste/national-waste-statistics/composting--anerobic/ (Accessed 17 February 2022)

[6] https://www.teagasc.ie/media/website/publications/2010/868_StrawForEnergy-1.pdf (Accessed 2 February 2022)

[7] European Waste Code (EWC) as per https://www.epa.ie/publications/monitoring--assessment/waste/2019--FULL-template.pdf (Accessed 14 March 2022)

4. Processed in Northern Ireland

Data on the 'controlled wastes' processed at 47 compost and anaerobic digestion plants in Northern Ireland was provided by DAERA.

In addition, we reviewed the OFGEM online database for 2020. The review of the data identifies there are approximately an additional 40 on-farm AD plants which are probably treating manures and energy crops. These plants are not licenced by DAERA and thus no data is available on the tonnage of manures and energy crops processed by these plants. But it would be estimated in the region of several hundred thousand tonnes.

The data presented below includes imported feedstocks from Ireland.

Tonnage Processed
The tonnage processed at the 47 plants was 733,881 tonnes in 2020. This is an increase of 43% compared to amount (511,679t) processed in 2019.

Of the 733,881 tonnes, specific tonnage in the following three waste streams were:

Garden Waste
The total amount of garden waste (EWC 200201) processed was 53,360 tonnes.

Brown Bin
The total amount of brown bin (EWC 200108) processed was 280,496 tonnes.

Organic Fines
The total amount of organic fines (EWC 191212) processed was 6,504 tonnes.

5. Feedstocks Movement Between Ireland and Northern Ireland

The movement of organic waste feedstocks across the border is allowed under Transfrontier Shipment (TFS) Regulations. These Regulations create a single treatment market across the island of Ireland. As of February 2020, category 3 catering waste is no longer subject to the waste shipment regulations[8]. Manures are not classed as a waste and thus are not controlled by the TFS Regulations.

The predominant flow is from Ireland to Northern Ireland, with 121,289 tonnes (Table 1) of organic waste exported from Ireland in 2020, compared with 28,109 tonnes (Table 2) imported to Ireland. Most exports from Ireland to Northern Ireland consisted of separately collected food waste and brown bin material, whilst most imports are manures.

Table 2: Feedstocks Exported from Northern Ireland to Ireland

EWC Code	Description	Tonnes	Data Source
191212	MSW screened organics	4,897	TFS
200201	Grass cuttings/ prunings	1,639	TFS
	Manures	21,573	TRACES
	Total	**28,109**	

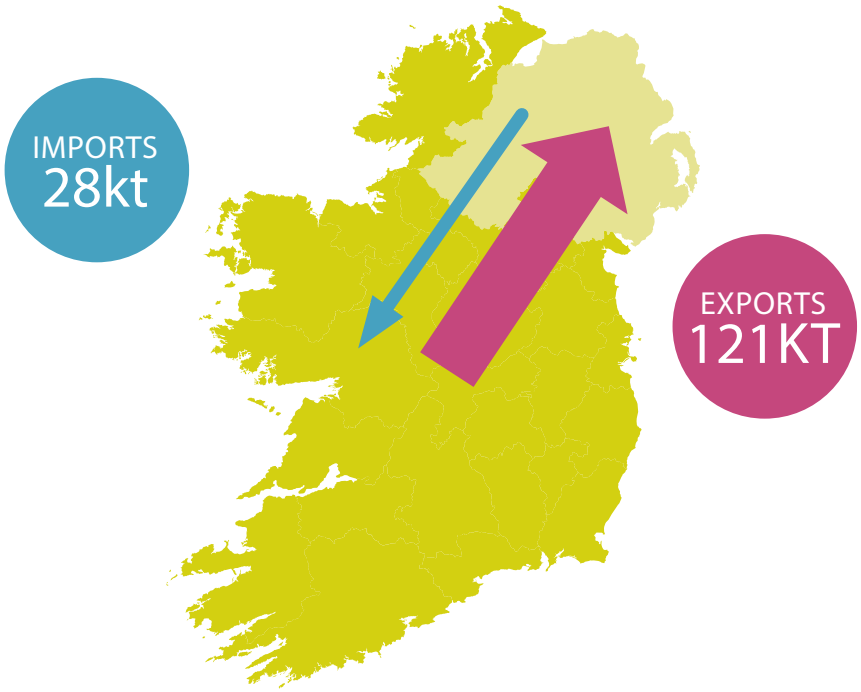
DAFM extracted data from the EU Trade Control and Expert System (TRACES) on the amount of manure imported from Northern Ireland to composting and anaerobic digestion plants. There were 21,573 tonnes imported and there was no export of manures from Ireland to Northern Ireland.

Table 1: Feedstocks Exported from Ireland to Northern Ireland (Source: DAERA)

EWC Code	Description	Tonnes
020202	Animal-tissue waste	1,672
020304	Fruit/vegetable- materials unsuitable for consumption or processing	19,072
200108	Biodegradable kitchen and canteen waste	77,273
191212	Organic fines	1,497
200201	Garden and park waste	362
020704	Wastewater/ pot ale	163
020101	Sludges from washing and cleaning	2,555
020502	Dairy- sludges from on-site effluent treatment	10,865
020799	Wastes from the production of alcoholic and non-alcoholic beverages not otherwise specified	707
020204	Wastes from the preparation and processing of meat, fish and other foods of animal origin -sludges from on-site effluent treatment	7,123
	Total	**121,289**

[8] Circular WP02/20

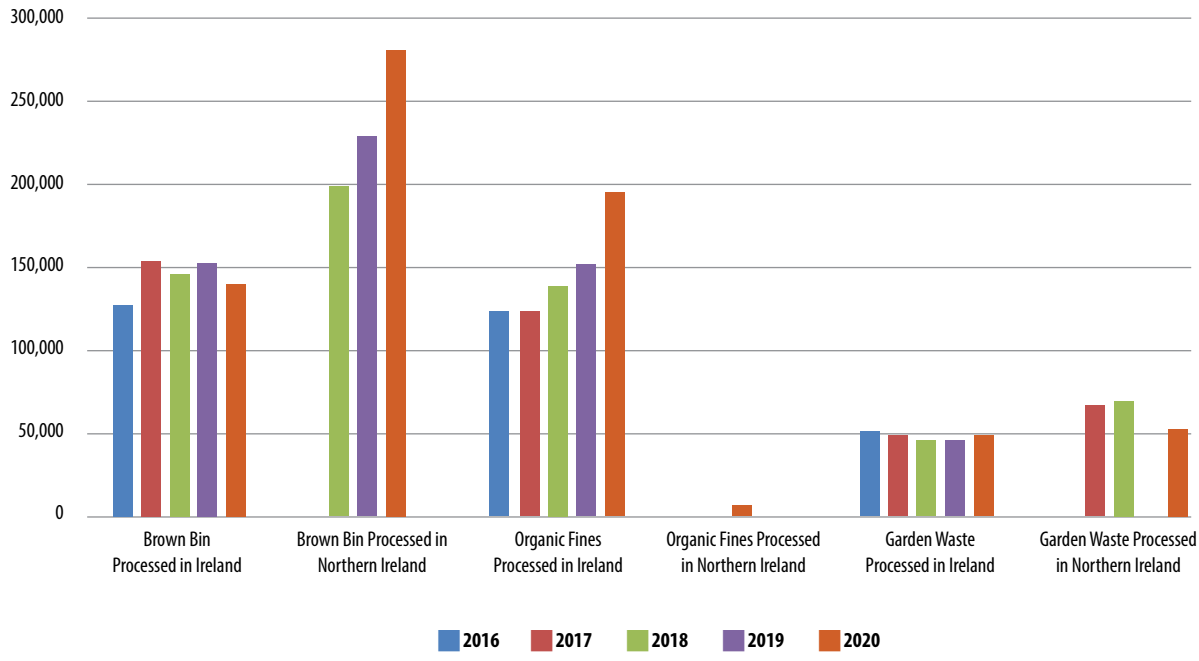
Figure 1: Feedstocks Movement Between Ireland and Northern Ireland



6. Processing Trends from 2016 to 2020

Figure 2 below shows that brown bin processing in Ireland is decreasing, while it is growing in Northern Ireland. Organic fines processing in Ireland is significant, while there is very little processing of fines in Northern Ireland. Garden waste composting is slightly larger in Northern Ireland than in Ireland.

Figure 2: Processing Trends in Ireland and Northern Ireland for Certain Waste Types[9]



[9] The 2020 organic fines figure for Ireland includes organic fines and mixed municipal waste

7. List of 63 Plants in Ireland in 2020

Plant Name	Location	Technology
Thorntons Recycling	Kilmainhamwood, Meath	IVC
Barna Waste	Carrowbrowne, Galway	IVC
Ormonde Organics	Portlaw, Waterford	IVC
Kilowen Biogas	Portlaw, Waterford	AD
Waddock Composting	Castledermot, Kildare	IVC
EnviroGrind	Pettigo Co.Doengal F94 YR13	IVC & OW
Johnstown Recycling	Johnstown Slanemore Mullingar Co Westmeath N91 X0NW	IVC
Athchursail Arann	Aran Island	IVC
GreenGas AD Plant	Dunmoylan Shanagolden Co. Limerick V94 VE0H	AD
Green Generation	Nurney, Kildare	AD
Rockbrook AD	The Rock Ballyroan Co. Laois R32 C4H3	AD
Enrich Environmental	Windtown, Meath	IVB & OW
Huntstown, Energia	Finglas, Dublin	AD
Littleton Composting	Littleton, Tipperary	IVC
Miltown Composting Systems	Fethard, Tipperary	IVB
OD Agri Ltd	Ballyboe Ballypatrick Clonmel Co.Tipperary	IVB
McGill Environmental Systems	Glenville, Cork	IVB
O'Toole Composting	Ballintrane, Carlow	IVB
Bord na Mona	Drehid, Carbury, Kildare	IVB
Enrich Environmental	LarchHill, Kilcock, Meath	IVB & OW
Bord na Mona	Kilberry, Athy, Kildare	OW
Mayo County Council	Rathroeen Landfill, Mayo	OW
GreenKing Composting	Coolbeg, Wicklow	OW
Barrockstown Farms Limited	Barrockstown Maynooth Co. Meath W23 A5Y0	OW
CTO Environmental Solutions	Rostellan Midleton Co. Cork P25 DC85	OW
Cleary Compost & Shredding Ltd	Larch Hill House, Larch Hill, Monasterevin Co. Kildare	OW
Limerick City and County Council	Mungret, Limerick	OW
Louth County Council Dundalk Landfill (V&W Recycling)	Dundalk, Louth	OW
Clare County Council	Inagh, Clare	OW
Sligo County Council	Ballisodare, Sligo	OW
Garden Waste Recycling Ltd	Kealstown Maynooth Co Kildare W23 FT91	OW
M&T Plant Hire Limited	Ballyeden The Leap Enniscorthy Co Wexford Y21 PA07	IVC
Eras Eco	Youghal, Co. Cork	AD
BioCore Environmental AD1 Ltd	Boppark, Ballinphuill, Tibohine Castlerea Co. Roscommon F45 EH97	AD
Derryville Environmental Solutions Ltd	Derryville Moyne Thurles Co. Tipperary E41 X4P9	AD
McGill Molaisin	Cappoquin, Co. Waterford.	IVC
Cremin's Farm Compost	Coolaleen Broadford Co Limerick P56 FP80	IVC
McBreen Environmental Drain Services Ltd	Lismagratty, Cavan, H12 FP44	IVC
Ballyshannon Recycling Ltd	Ballyshannon Adamstown Enniscorthy Co. Wexford	AD
BEOFS Ltd	Camphill Community Ballytobin Callan Co Kilkenny R95 X0KK	AD
Glenmore Generation	Ballybofey, Donegal	AD
Recycled Products Ltd	Cavanaweary Castlefinn Co. Donegal	AD
Timoleague Agri Gen Ltd	Barrys Hill, Timoleague, Cork	AD
Ashleigh Farms (Waterford) Limited	Ballynameelagh, Cappagh, County Waterford.	AD
Custom Compost	Gorey, Wexford	IVC
Monaghan Mushrooms	Carbury, Kildare	IVC
De Brun Iasc	Dingle, Kerry	IVC
Kerry Foods	Charleville	AD
Arrabawn Dairies	Galway	AD
Bulmers	Clonmel, Tipperary	AD
Carbery Milk Products	Mitchelstown, Cork	AD
Dairygold, Mitchelstown		AD
Slane Irish Whiskey	Slane, Co. Meath	AD
Ringsend	Dublin	AD
Dundalk	Dundalk, Louth	AD
Drogheda	Drogheda, Louth	AD
Sligo	Sligo	AD
Tullamore	Tullamore, Offaly	AD
Tralee	Tralee, Kerry	AD
Letterkenny	Letterkenny, Donegal	AD
Osberstown	Osberstown, Kildare	AD
Mutton Island	Mutton Island, Galway	AD
Waterford City	Waterford	AD

	MW Electricity listed in PSO Levy SI for 2019	MW Biomethane	ABP Approval Number	EPA Licence / Local Authority Waste Permit
			COMP-6	W01 95-02
			COMP-40	106-2
			COMP-86	W0287-01
	0.99		BIOG 98	W0287-01
			COMP-16	P1009-01
			COMP-7	WFP-DL-17-004-05
			COMP-36	WFP-WM-2015-001
			COMP-19	
	0.99		BIOG (Comp) 55	WFP/L/2017/50/R4/T1
	1.06	unknown	BIOG51	P0420-03
	0.49		BIOG81	WFP-LS-16-0005-01
			Comp 119	WFP/MH/17/0001/01
	4		BIOG 108	P0993-02
			COMP-45	W0249-01
			COMP-15	W0270-02
			COMP-74	WFP-TS-10-0002-05
			COMP-31	180-1
			COMP-24	W0284-01
			COMP-63	W0201
			COMP-58	P1013-01
				198-1
				W0067-02
				218-1
				WFP-MH-14-0007-02
				WFP-CK-09-0018-04
				WFP-KE-10-0064-01
				R02188
				W0034
				W0109-02
				R1474
				WFP-KE-19-0095-01
				WFP-WX-17-0129-02
	0.49		BIOG106	W0211-02
	0.99			WFP-RN-11-0002-02
	Unknown			WFP-T-12-0003-03
				W0245
				WFP/L/2018/23A/R9
				WFP-CN-16-0001-01(1)
	0.1		BIOG 64	WFP-WX-20-0175-01
	0.18		BIOG 8	WFP-KK-19-0002-03
		unknown	BIOG 100	P1004-02
		unknown	BIOG 100	P1004-02
	0.439		BIOG 116	
	0.5		BIOG 92	P0986-01
	Unknown		BIOG 103	P0447-01
			COMP-114	
			COMP-78	
			COMP-57	
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8. List of 47 Plants Regulated by DAERA for 'controlled waste' in Northern Ireland in 2020

NB Of the 47 authorisations listed, 2 relate to the same site (National Trust / McCulla).
NB Granville Ecopark & McCulla upgrade biomethane

Plant Name	Address	Post code	Technology	MW Electricity listed in OFGEM	ABP Approval Number	DAERA Licence/ Permit
National Trust	Mount Stewart Estate	BT22 2AD	OW			WMEX 29/78 para 13
National Trust	Mount Stewart Estate	BT22 2AD	OW			WMEX 29/89 para 13
Northway Mushrooms Ltd	11C Aghnagar Road	BT70 2HP	IVC		CMP/780/19	WML 37/16 LN/18/29
Natural World Products (NWP) Ltd	55 Cargaclougher Road	BT60 3RA	IVC & OW		CMP/581/08	WPPC 03/07 P0479/15A/V3
Natural World Products (NWP) Ltd	Glenside Road	BT17 0LH	IVC		CMP/651/10	WPPC 19/12 P0341/10A/V3
Greenacre Composting Enterprises Ltd	Greenacre Composting Facility	BT29 4HG	IVC		CMP/677/11	WPPC 28/02 P0505/15A
John Best & Patricia Best	Acton Farm	BT35 6TA	OW			WML 30/04 LN/17/04
Causeway Coast and Glens Borough Council	Old Landfill Site	BT51 4PP	OW			WML 10/26 LN/10/56
Greenville Energy Ltd	40 Greenville Road	BT78 4LU	AD	500		WML 33/09 LN/16/49
WH Energy Ltd	160m S of 38 Baronscourt Road	BT78 4EY	AD	519		WML 33/12 LN/18/17
ALG Biogas Ltd	2 Strahans Road	BT82 9SF	AD	500	BIO/784/19	WML 33/13 LN/18/03
Hillside Combined Renewable Systems Ltd	29 Erganagh Road	BT81 7JQ	AD	498		WML 33/17 LN/20/07
Tievenny Renewable Energy Ltd	33 Tievenny Road	BT82 9LW	AD	499		WML 33/18 LN/20/06
Evergreen Natural Energy Ltd	100 NW of 26 Deerpark Road	BT78 4LA	AD	520	BIO/718/15	WML 33/22 LN/18/07
Stephen Bothwell	80m N of 71 Creevehill Road	BT75 0SX	AD	500		WML 34/02 LN/16/09/M
Gavin Winters (Winters Renewables)	21 Shannaragh Road	BT78 3EJ	AD	500		WML 34/15 LN/14/26/T
Assured Energy LLP	121 Comber Road	BT26 6NA	AD	500		WML 35/03 LN/17/32
McCulla SPV1 Ltd	Unit 5 Blaris Industrial Estate	BT27 5QB	AD	499	BIO/786/19	WML 35/09 LN/19/12
Alternity Biogas Energy Ltd	Unit 5 Blaris Industrial Estate	BT27 5QB	AD			WML 35/09 LN/19/12/V2
Par Biogas Ltd	220m E of 14 Tullywiggan Road	BT80 8SD	AD	500		WML 37/01 LN/16/41/M
Caledon Estates Company	Annaghroe Road	BT68 4UJ	AD	500		WML 37/02 LN/17/17
Par Biogas Ltd	220m E of 14 Tullywiggan Road	BT80 8SD	AD	500		WML 37/01 LN/16/41/M
GTG Biogas (Ballymoyle) Ltd	185m E of 5 Ardagh Road	BT80 0AU	AD	350		WML 37/03 LN/17/18
Assured Energy LLP	9 Curragh Road	BT46 5ER	AD	500		WML 37/04 LN/19/11
Springwell Renewables Ltd	86 Drumflugh Road	BT71 7QF	AD	500		WML 37/14 LN/18/16
Lodge Renewables Ltd	1 Gortnaskey Road	BT45 7JX	AD	500		WML 37/15 LN/20/10
Anaerobic Advantage Ltd	Tully Biogas Plant	BT42 3HJ	AD	3000	BIO/765/18	WPPC 04/04 P0469/15A/V1
Granville Ecopark Ltd	Granville Industrial Estate	BT70 1NJ	AD	5060	BIO/695/13	WPPC 15/06 P0413/12A/V2
ALG Biogas Ltd	42 Deerpark Road	BT78 4LB	AD	500	BIO/737/16	WML 33/07 LN/16/22
Justfarmenergy Ltd	84 Carhill Road	BT51 5PQ	AD	330		WML 32/13 LN/20/20
Kilmoyle AD Ltd	7 Kilmoyle Road	BT53 6NR	AD	520		WML 32/09 LN/20/22
Hunniford Energy Ltd	76 Moy Road	BT62 1QW	AD	500		WML 30/34 LN/20/05
Assured Energy LLP	85 Drumnagoon Road	BT63 5RF	AD	500		WML 30/14 LN/17/53
Edenmore Biogas Ltd	36 Taughlumny Road	BT66 7NX	AD	500		WML 30/06 LN/17/14/V2
Thomas & William Gilpin (Gilfresh Produce)	56 Creenagh Road	BT61 8PZ	AD	500		WML 30/05 LN/17/07
Bridge Energy (NI) Ltd	40m W of 31 Reservoir Road	BT32 4LD	AD	500		WML 30/02 LN/16/28
Clandeboye Estate Company Ltd	Rear of the Dairy Unit	BT23 4EA	AD	250		WML 29/04 LN/17/22
Assured Energy LLP	21 Shannaragh Road	BT78 3EJ	AD	500		WML 25/39 LN/14/26
Assured Energy LLP	Narrow Water Castle	BT43 3LE	AD	500		WML 22/61 LN/19/09
GTG Biogas (Toomebridge) Ltd	20m W of 61 Creagh Road	BT45 8EY	AD	500		WML 20/34 LN/13/13
Agri Food and Biosciences Institute (AFBI)	Agri-Environment Branch	BT26 6DR	AD			WML 19/49 LN/12/35
Thomas Campbell (Piperhill BioEnergy)	74 Cornakinnegar Road	BT67 9JN	AD	500		WML 12/41 LN/18/32
Blakiston Houston Estates	28 Carrowreagh Road	BT16 1TS	AD	500		WML 09/26 LN/12/10
Assured Energy LLP	156 Ballygowan Road	BT32 3QS	AD	500	BIO/713/15	WML 06/27 LN/14/21
Progress Energy (NI) Ltd	33 Greenogue Road	BT25 1RG	AD	500		WML 06/26 LN/14/07
Alastair Taylor	21 Drumlee Road	BT53 7LE	AD	150		WML 05/18 LN/15/25
Assured Energy LLP	250m SE of Crossnenagh Road	BT60 3HW	AD	500		WML 03/42 LN/15/02
Assured Energy LLP	22 Gobrana Road	BT29 4LQ	AD	250		WML 01/40 LN/14/20

9. List of 40 Additional AD Plants on OFGEM Register in Northern Ireland in 2020

Plant Name	MW Electricity listed in OFGEM
Foyle Food Group	499
Aghalee AD	515
AHS 500	500
Ballydown Energy	250
Ballytyrone500	500
Berry Energy	499
Biogas51 Limited N. Ireland	500
Biogrid	500
BME	500
Hewitts Meats	500
Jambi	500
Newtownards	499
Lisleen Energy	250
ArdboeAgriAD	499
Bann Shore AD	500
Bingham Energy Ltd	250
Carrick Road 200 AD	200
Clogher Valley Farm Energy Ltd	500
CRE-Energy Ltd	500
D and A Taylor	150
Drenagh Estate	500
Drumreighland farms Ltd	500
Drumrusk	499
Dunleath Energy	200
Fyfin AD	500
Glenagri Bioelectric CHP	595
Glendona Bioenergy	500
Gorthill AD	520
Grange CHP	250
Green Circle	500
Greenan Generation	500
Holly Park Farm Energy Ltd	500
IB Energy Ltd	500
Laragh Green	519
Milfordbiogas	235
MK Energy	150
Oakdene Biogas Ltd	500
Thornyhill AD Energy Ltd	500
Tonnagh Pig Unit - Replacement	1000
Willsborough AD	500

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