



A DIVISION OF DAWN MEATS

Dunbia (UK) 2022 Annual Performance Report

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1.0 Introduction

Dunbia (UK) became a division of the Dawn Meats group in the latter half of 2017. Dunbia (UK) operates an animal slaughtering and meat processing business at its Llanybydder facility under a PPC Permit, No. BV9863IH issued by Natural Resources Wales. The facility at Llanybydder is comprised of slaughter and boning of carcasses into primal cuts for further processing / retail packing at other facilities.

Condition 4.2.2 of permit BV9863IH requires the operator to produce a report of the performance of the activities with a comparison over the previous year to include the following:

- (a) A review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;
- (b) The annual production/treatment data set out in schedule 4 table S4.2; and
- (c) The performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule.

2.0 Monitoring Results Comparison

This section reviews the monitoring results required to be submitted under permit BV9863IH and aims to explain any patterns or changes to the data submitted.

2.1 Production

Year	Slaughtering of Animals (Carcase Sales Tonnes)	Primal Cuts & Retail Packs (Boning Hall Sales Tonnes)	Total Production (Tonnes)
2007	Production data was not collected in this format prior to licence review in 2013.		
2008			
2009			
2010			
2011			
2012			
2013	3,992.404	23,971.66	27,964.064
2014	3,897.663	21,125.312	25,022.975
2015	2,696.765	19,442.125	22,138.890
2016	2,213.251	17,516.19	19,729.441
2017	3,176.316	18,983.913	22,160.23
2018	2,668.596	15,183.404	17,852.000
2019	2,430.390	13,613.667	16,044.057
2020	2,505.065	14,175.751	16,680.816
2021	2,047.167	19,814.29	21,861.457
2022	4,544.75	21,207.18	28,397.14

Explanation for change in 2022

Carcass sales tonnage increased in 2022 compared to 2021 as a result in the change in activities on site. The changes include the addition of a beef slaughter hall which saw circa 2,650 additional tonnes since coming live in June. Boning sales tonnage saw a decrease in 2022 compared to 2021 which in part was due to inflation & associated cost of living affecting people's ability to purchase meat, particularly the more expensive cuts and was also impacted by Brexit's effect on lamb export prices.

2.2 Water

Year	Mains Water (m ³)	Borehole Water (m ³)	Total Water (m ³)	Water Usage per Tonne of Production (m ³ /T)
2007	2,895	56,514	59,409	Production data was not collected in this format prior to licence review in 2013.
2008	2,752	56,868	59,620	
2009	6,954	48,083	55,037	
2010	8,738	35,785	44,523	
2011	7,378	54,147	61,525	
2012	4,625	52,759	57,384	
2013	5,390	58,575	63,965	2.287
2014	2,464	75,645	78,109	3.12
2015	2,294	90,522	92,816	4.19
2016	3,068	91,762	94,830	4.806
2017	2,465	99,365	101,830	4.595
2018	2,502	101,256	103,758	5.812
2019	2,061	104,520	106,581	6.643
2020	1,448	81,939	83,387	4.999
2021	1,091	87,909	89,000	4.071
2022	2,219	64,163	66,382	2.578

Explanation for change in 2022

Total water usage has decreased in 2022 compared to 2021. The water use per tonne produced has also decreased. This was due to improved efficiencies achieved following the completion of water reduction projects including the upgrade of the pump systems on site as well as the addition of the beef line which has increased the production capacity of the site and completion of steriliser project started in 2021 has had further impact throughout the 2022 calendar year.

2.3 Effluent

Year	Discharged to Sewer via S1(m ³)	Discharged to River via W1 (m ³)	Total Effluent (m ³)	Effluent Generation per Tonne of Production (m ³ /T)	Imported Effluent (m ³)
2007	63,667	0	63,667	Production data was not collected in this format prior to licence review in 2013.	0
2008	63,176	0	63,176		0
2009	47,902	0	47,902		0
2010	30,103	16,504	46,607		0
2011	0	50,293	50,293		0
2012	0	66,220	66,220		0
2013	0	71,451	71,451		2.555
2014	0	94,862	94,862	3.791	0
2015	0	89,987	89,987	4.065	0
2016	0	86,933	86,933	4.406	0
2017	0	104,866	104,866	4.732	0
2018	0	105,871	105,871	5.930	0
2019	0	110,052	110,052	6.859	0
2020	0	84,335	84,335	5.056	0
2021	0	70,624	70,624	3.231	0
2022	0	60,787	60,787	2.36	0

Explanation for change in 2022

Total effluent discharged from Dunbia (Llanybydder) decreased in 2022 compared to 2021. This is in line with the reduction in water use as mentioned in 2.2 above.

2.4 Energy

Year	Total Electric (mWh)	Total Gas Oil (mWh)	Total Energy (mWh)	Total Energy per Tonne of Production (mWh/T)
2007	4,370.42	3,631.41	8,001.83	Production data was not collected in this format prior to licence review in 2013.
2008	4,756.03	3,146.87	7,902.9	
2009	4,825.281	3,034.91	7,860.19	
2010	4,900.073	3,788.12	8,688.19	
2011	4,949.416	3,437.347	8,386.76	
2012	4,597.886	3,593.08	8,190.97	
2013	5,454.174	4,688.136	10,142.31	0.363
2014	5,537.363	4,632.90	10,170.26	0.406
2015	5,144.454	5,340.09	10,484.54	0.474
2016	5,409.877	4,945.46	10,355.34	0.525
2017	5,773.418	4,872.81	10,646.23	0.480
2018	5,919.908	6,162.41	12,082.31	0.677
2019	5,745.143	5,426.60	11,171.74	0.696
2020	4,984.611	5,096.36	10,080.97	0.604
2021	4,633.35	4,221.85	8,855.20	0.405
2022	5,168.83	3,719.169	8,888	0.345

Explanation for change in 2022

There has been a decrease in overall total energy consumption and a reduction in energy consumption per tonne of production in 2022 compared to 2021. This reduction in energy consumption is due to increased efforts around KPIs and energy usage reduction projects and improved shutdown practices facilitated by ISO50001.

2.5 Waste

Year	Average BOD (mg/L)	Hazardous Recovery (Tonnes)	Hazardous Disposal (Tonnes)	Non Hazardous Recovery (Tonnes)	Non-Hazardous Disposal (Tonnes)	Total Waste per Tonne Production (T/T)
2007	1,590.44	2.81	0	14,522	231	Production data was not collected in this format prior to licence review in 2013.
2008	1,477.35	2.59	0	15,301.22	213.15	
2009	136.9	35.76	0	12,248.54	230	
2010	182.51	65.07	0	11,548.99	225	
2011	2.39	61.46	0	13,712.96	219.3	
2012	2.16	74.85	0	12,522.28	136.44	
2013	2.03	10.68	0	13,555.59	254.92	0.494
2014	2.12	11.92	0	4,378.48	0	0.175
2015	1.34	38.31	0	6,137.47	0	0.279
2016	1.21	27.10	0	3,723.87	0	0.190
2017	1.95	33.38	0	3,336.71	0	0.152
2018	1.55	21.035	0	4,218.65	0	0.238
2019	2.0	2.35	0	4,170.29	0	0.2589
2020	1.96	6.343	0	4,902.72	0	0.2943
2021	1.73	35.172	0	2,007.606	0	0.0934
2022	2.52	23.582	0	2,803.190	0	0.1098

Explanation for change in 2022

The average BOD of the effluent discharge has increased slightly in 2022 compared to 2021 which is a negligible increase.

There is an increase in tonnage of non-hazardous wastes removed from Dunbia (Llanybydder) in 2022 compared to 2021. The increase in non-hazardous waste was due to the requirement for liquid sludge to be tankered from the ETP while upgrade works were underway as well as bellygrass arising from the beef process.

There is a decrease in tonnage of hazardous wastes removed from Dunbia (Llanybydder) in 2022 compared to 2021. This was due to planned deep clean of the blood tank and bund that took place in 2021.

All waste was diverted from landfill in 2022.