



Plastic Packaging PRN/PERN 2022 Update

Including:

- 2022 arisings and recycling tonnage data
- PRN/PERN spend reviews and trends
- 2022 PRN/PERN spend category analysis



Raw Data 2022

Material Type	Accreditation Type	Infrastructure and capacity	Funding collection	Reduction in price and	Costs of complying with	Retained for future	Developing communication	Total
Aluminium	Exporter	£4,710,860.53	£158,323.88	£1,496,278.04	£125,509.93	£829,360.50	£242,594.92	£7,562,927.80
Aluminium	Reprocessor	£1,297,782.50	£0.00	£159,007.00	£32,385.00	£1,916,194.00	£419,389.00	£3,824,757.50
Glass Re-melt	Reprocessor	£51,210,369.93	£37,021,461.28	£6,794,850.83	£663,353.65	£10,848,001.83	£90,052.00	£106,628,089.52
Glass Re-melt	Exporter	£6,118,686.26	£22,666,178.80	£1,035,835.76	£153,608.00	£3,011,207.48	£29,200.00	£33,014,716.30
*Glass Other	Rep & Exp	£15,592,705.69	£4,918,238.10	£1,133,068.73	£556,478.20	£7,155,500.59	£58,712.00	£29,414,703.31
Paper/board	Reprocessor	£6,283,626.36	£48,000.00	£0.00	£-76,451.00	£10,114,522.00	£0.00	£16,369,697.36
Paper/Board	Exporter	£4,053,399.76	£9,761,155.80	£24,591,477.69	£436,925.49	£1,468,138.67	£533,453.77	£40,844,551.18
Plastic	Reprocessor	£56,375,253.19	£29,906,559.86	£23,755,848.17	£2,227,938.04	£11,871,406.77	£1,165,761.84	£125,302,767.87
Plastic	Exporter	£18,054,560.35	£38,316,233.09	£38,262,534.22	£2,732,260.80	£4,331,306.01	£1,055,344.42	£102,752,238.89
Steel	Reprocessor	£3,267,431.50	£0.00	£2,200,012.00	£172,175.00	£24,923.50	£104,451.00	£5,768,993.00
Steel	Exporter	£3,602,456.23	£555,846.62	£4,373,477.85	£318,732.42	£906,774.08	£66,777.20	£9,824,064.40
*Wood	Rep & Exp	£4,633,230.25	£2,168,377.58	£841,665.43	£320,824.93	£500,463.09	£154,619.25	£8,619,180.53
Total		£175,200,362.55	£145,520,375.01	£104,644,055.72	£7,663,740.46	£52,977,798.52	£3,920,355.40	£489,926,687.66

Source: Environment Agency

Raw Data 2022

Material/ Process	Accreditation Type	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Total
Aluminium	Exporter	6,461	7,930	7,767	8,026	7,919	7,894	7,992	7,511	7,773	7,865	8,202	6,887	92,226
Aluminium	Reprocessor	4,240	3,491	5,493	3,482	5,033	4,583	4,998	4,827	4,715	3,191	4,343	3,094	51,491
Glass Other	Exp & Rep	37,893	39,736	40,719	30,165	33,192	36,294	41,060	41,202	40,929	49,674	54,911	46,305	492,079
Glass Re-melt	Exporter	20,652	23,338	21,291	22,348	24,185	19,597	38,975	24,210	46,540	33,189	24,143	36,337	334,805
Glass Re-melt	Reprocessor	80,422	79,366	84,174	87,905	94,644	92,457	93,562	98,857	85,082	89,001	89,219	70,209	1,044,898
Paper/board	Exporter	208,366	189,925	201,008	169,487	201,554	198,162	208,811	180,322	221,186	242,218	244,397	258,912	2,524,347
Paper/board	Reprocessor	99,541	83,743	101,475	117,143	96,894	86,537	113,915	101,756	84,507	96,982	103,223	85,183	1,170,897
Plastic	Exporter	36,441	39,307	44,508	44,124	46,825	40,910	42,634	39,792	44,816	52,563	54,193	48,681	534,795
Plastic	Reprocessor	47,460	48,471	51,430	47,773	55,462	56,510	53,411	52,971	52,479	54,589	54,424	43,770	618,750
Steel	Exporter	9,309	6,647	8,570	17,513	13,733	15,073	12,053	12,343	15,603	28,604	20,476	32,704	192,627
Steel	Reprocessor	20,990	9,986	12,759	18,062	24,666	21,147	17,862	10,248	9,361	10,814	10,644	6,445	172,983
Wood	Exp & Rep	44,963	50,400	55,646	51,876	54,574	49,203	48,320	50,697	57,545	58,057	68,694	44,711	634,687

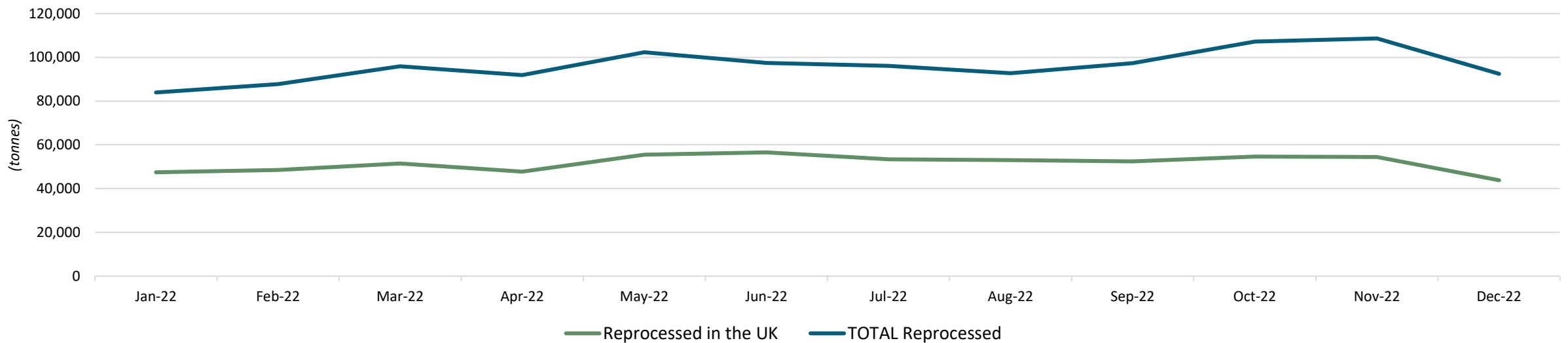
** Data for glass other and wood has not been split by accreditation type as release of this data will breach EIR Regulation 12(5)(e) - the confidentiality of commercial or industrial information where such confidentiality is provided by law to protect a legitimate economic interest.*

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Source: Environment Agency

2022 UK Plastic Packaging Recycling Data

	2022				
	Q1	Q2	Q3	Q4	2022 Total
Total Tonnes	267,619	291,603	286,103	308,219	1,153,545
UK Tonnes	147,362	159,745	158,861	152,782	618,750
UK as %	55%	55%	56%	50%	54%



2022 UK Plastic Packaging Recycling Rates

51%

UK Plastic Packaging
Recycling Rate

1,154kt

Plastic Recycled

2,264kt

Plastic Placed on the
Market

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Recycled (kt)	640	710	842	891	1015	1044	1034	1141	1175	1112	1154
Placed on the Market (kt)	2550	2260	2220	2260	2260	2260	2260	2290	2092	2174	2264
Recycling Rate	25.1%	31.4%	37.9%	39.4%	44.9%	46.2%	45.8%	49.8%	56.2%	51.1%	51.0%

*Sources: Valpak Packflow Covid-19 Phase 2 report (Figure 103), RECOUP
UK Household Plastic Packaging Survey 2022 and Environment Agency*

2022 PRN/PERN Revenue Data (all materials)

Total 2022 PRN/PERN Revenue: Total 2022 Plastic PRN/PERN Revenue:

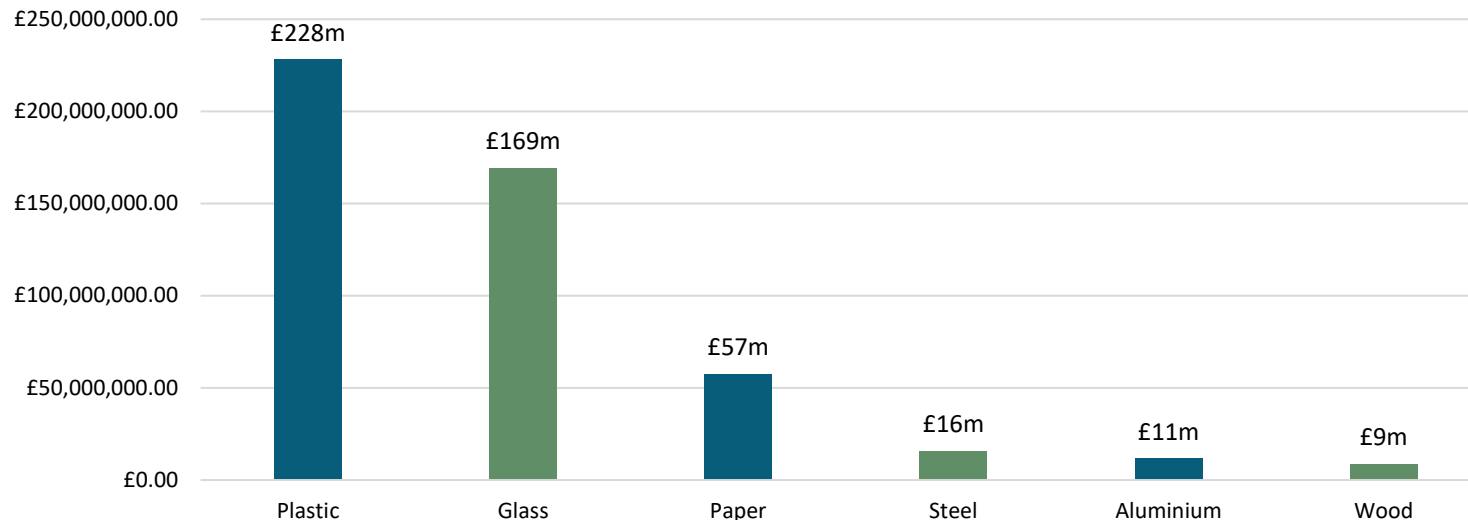
£490m

£228m

£103m from UK recycled plastic packaging (PRN)

£125m from exported plastic packaging (PERN)

Total PRN/PERN Revenue Generated by Packaging Material 2022

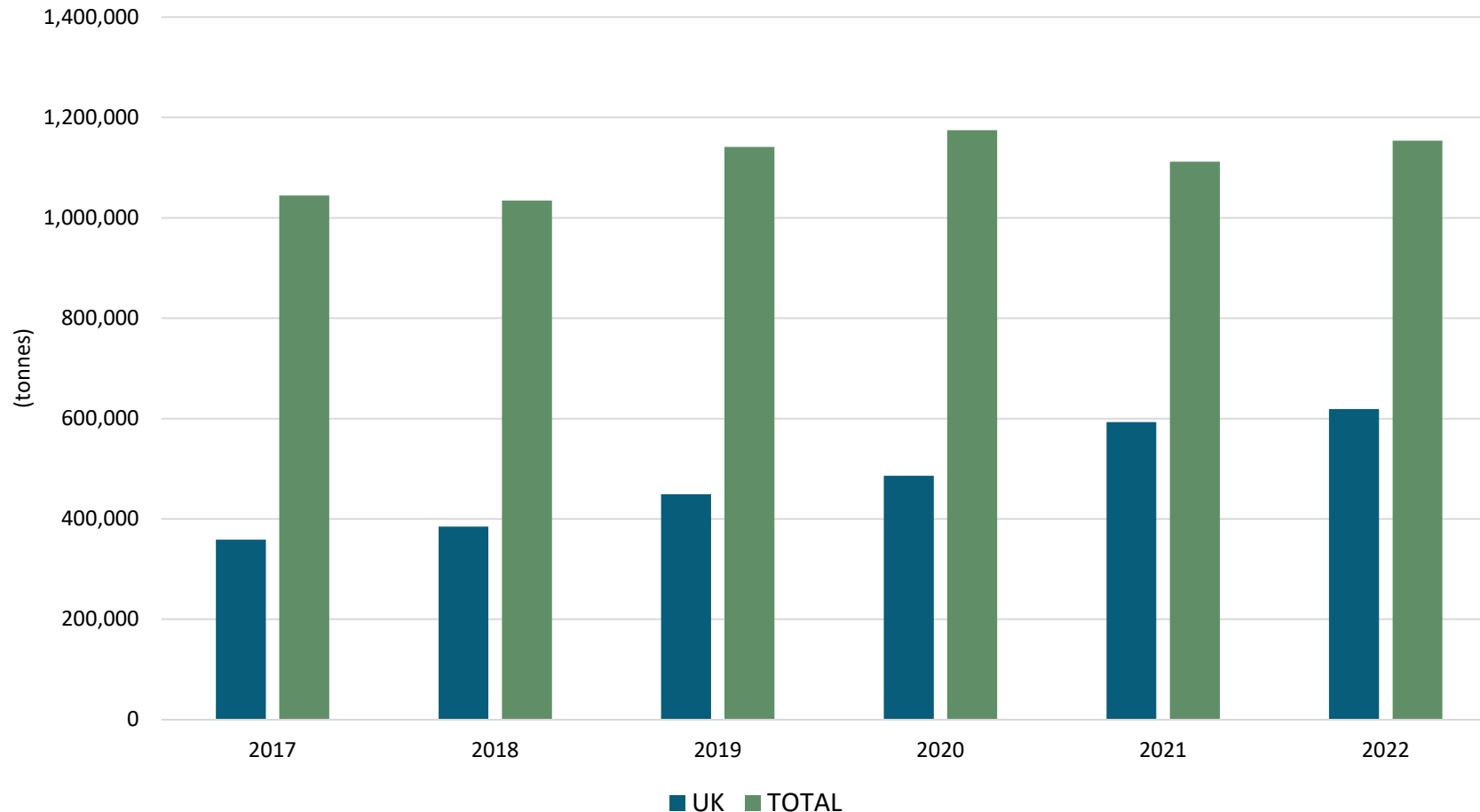


Material / Process	Tonnes	Total PRN/PERN Value
Aluminium - Export	92,226	£7,562,927.80
Aluminium - UK	51,491	£3,824,757.50
Glass Other - Export & UK	492,079	£106,628,089.52
Glass Re-melt - Export	334,805	£33,014,716.30
Glass Re-melt - UK	1,044,898	£29,414,703.31
Paper/board - Export	2,524,347	£16,369,697.36
Paper/board - UK	1,170,897	£40,844,551.18
Plastic - Export	534,795	£125,302,767.87
Plastic - UK	618,750	£102,752,238.89
Steel - Export	192,627	£5,768,993.00
Steel - UK	172,983	£9,824,064.40
Wood - Export & UK	634,687	£8,619,180.53

	TOTAL	
Aluminium	£11,387,685.30	2.32%
Glass	£169,057,509.13	34.51%
Paper	£57,214,248.54	11.68%
Plastic	£228,055,006.76	46.55%
Steel	£15,593,057.40	3.18%
Wood	£8,619,180.53	1.76%

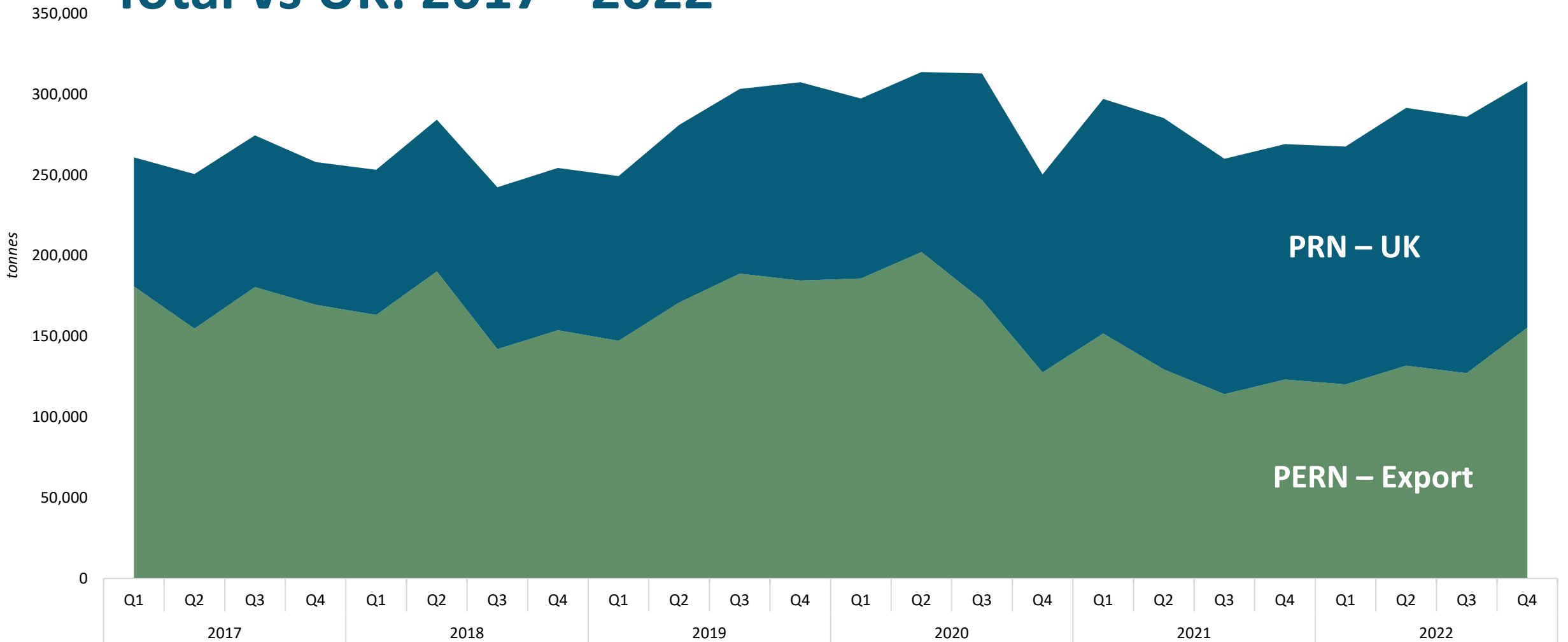
Source: Environment Agency

Annual Plastic PRN/PERN Generation Total vs UK: 2017-2022



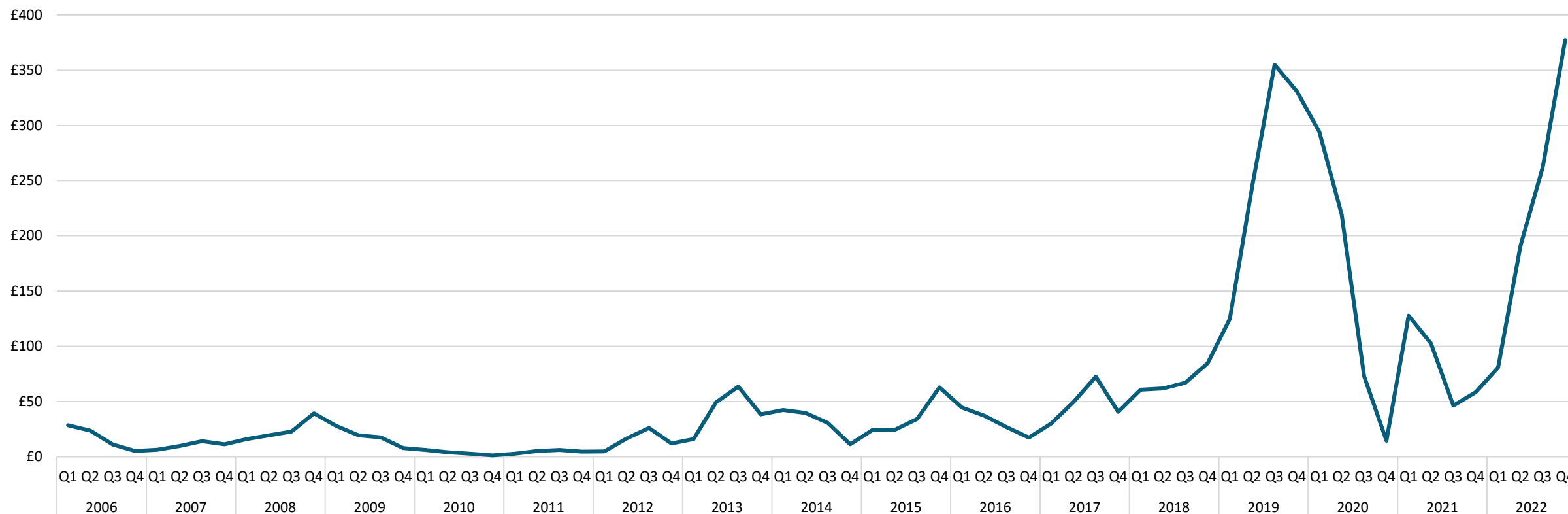
	UK	Year-on-Year Increase
2007	153	-
2008	160	7 ↑
2009	164	4 ↑
2010	174	10 ↑
2011	183	9 ↑
2012	227	44 ↑
2013	284	57 ↑
2014	328	44 ↑
2015	328	0
2016	331	3 ↑
2017	358	27 ↑
2018	385	27 ↑
2019	449	64 ↑
2020	486	37 ↑
2021	593	107 ↑
2022	619	26 ↑

Quarterly plastic PRN/PERN Generation Total vs UK: 2017 - 2022

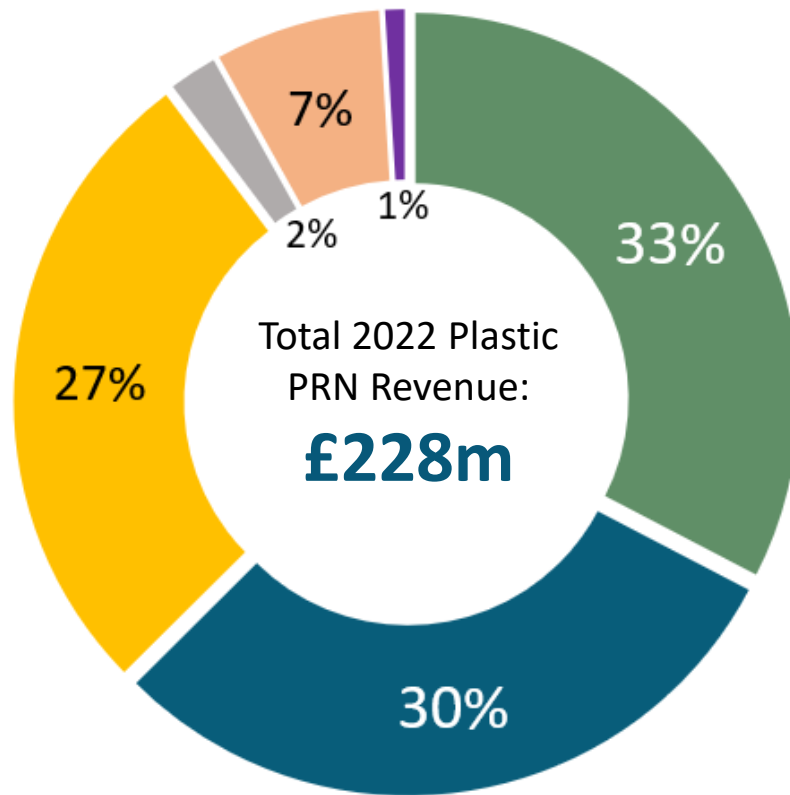


Average PRN Prices 2022

	2015	2016	2017	2018	2019	2020	2021	2022
Average PRN Price (per tonne)	£36	£31	£48	£68	£264	£150	£84	£228
TOTAL	£30m	£21m	£47m	£59m	£254m	£149m	£65m	£228m



2022 Plastic PRN/PERN spend categories

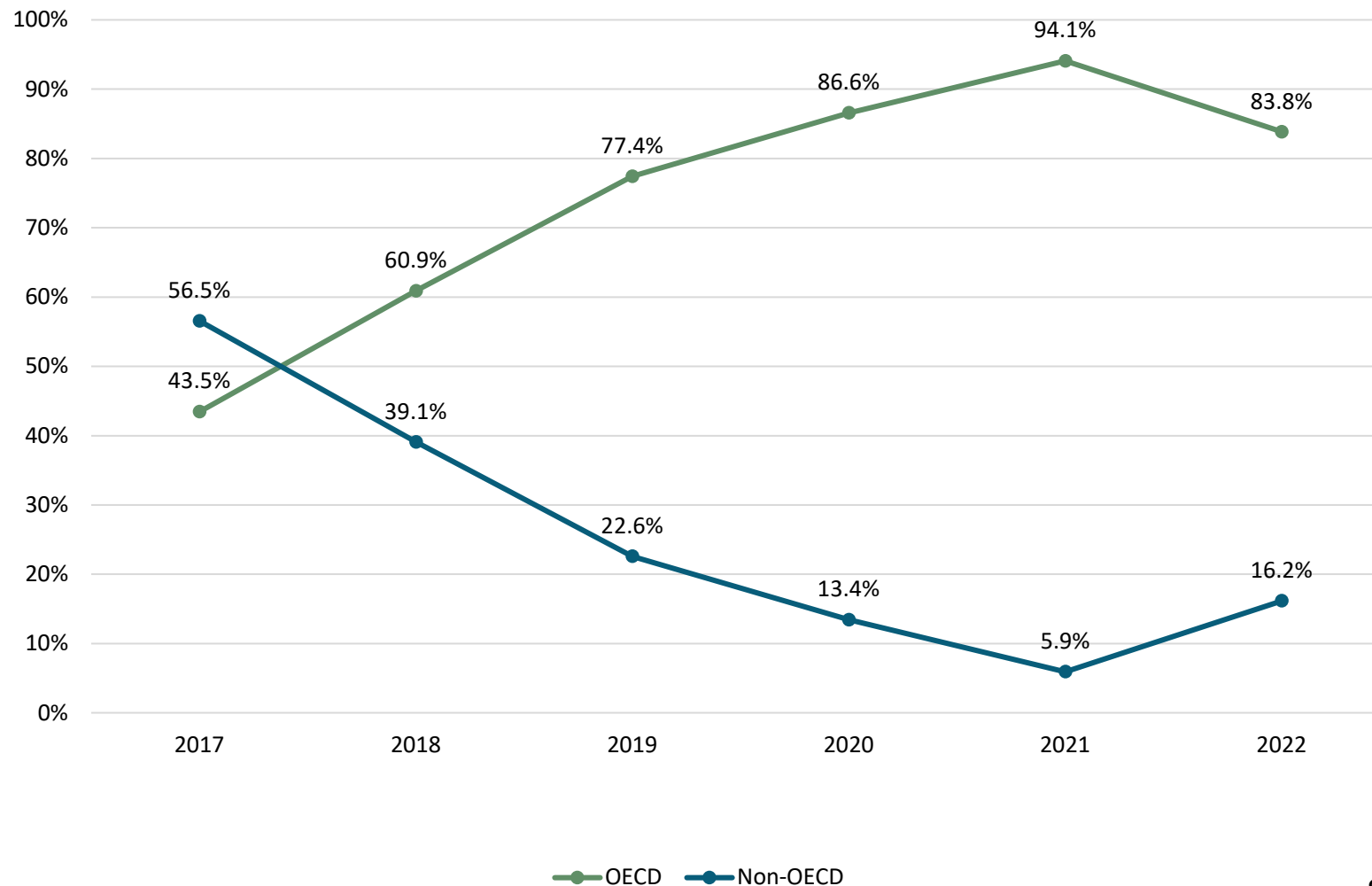


- Infrastructure and capacity
- Funding collection
- Reduction in price and developing new markets
- Costs of complying with the regulations
- Retained for future investment
- Developing communication strategies

2022	Total
Infrastructure and capacity	£74.5m
Funding collection	£68m
Reduction in price and developing new markets	£62m
Costs of complying with the regulations	£5m
Retained for future investment	£16m
Developing communication strategies	£2m
TOTAL	£228m

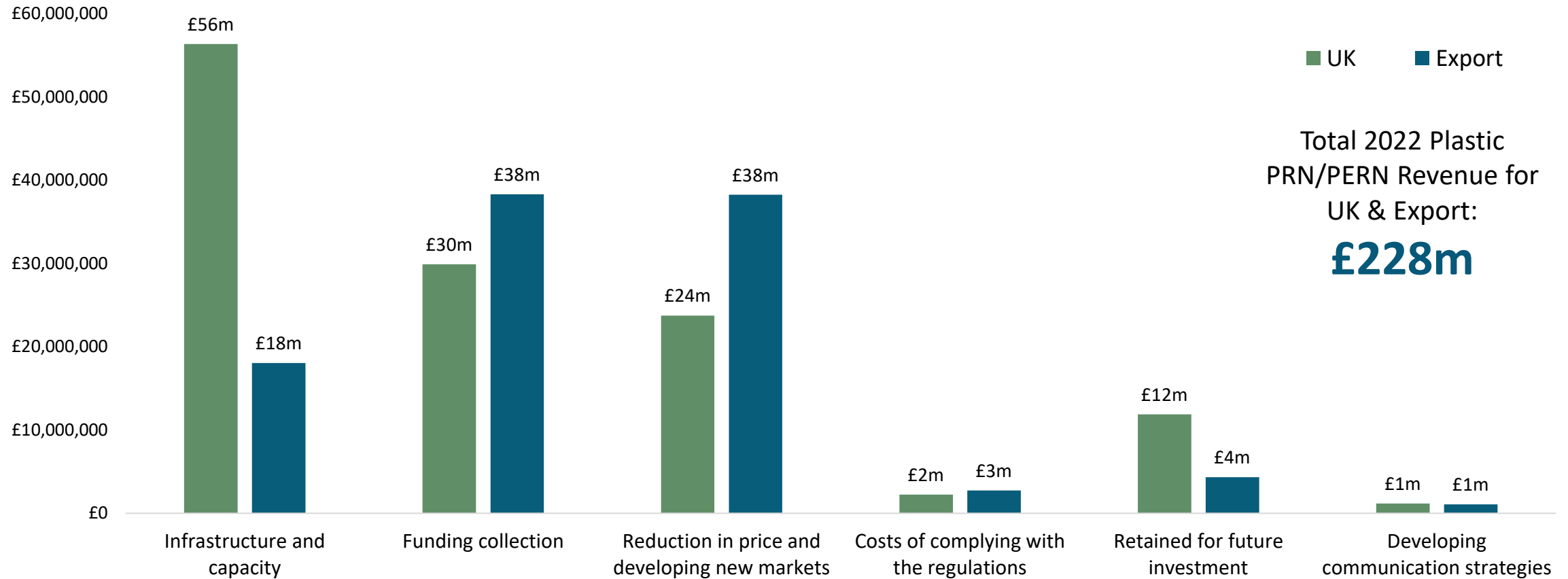
Source: Environment Agency

Plastic Packaging Exports 2017 - 2022 (England)

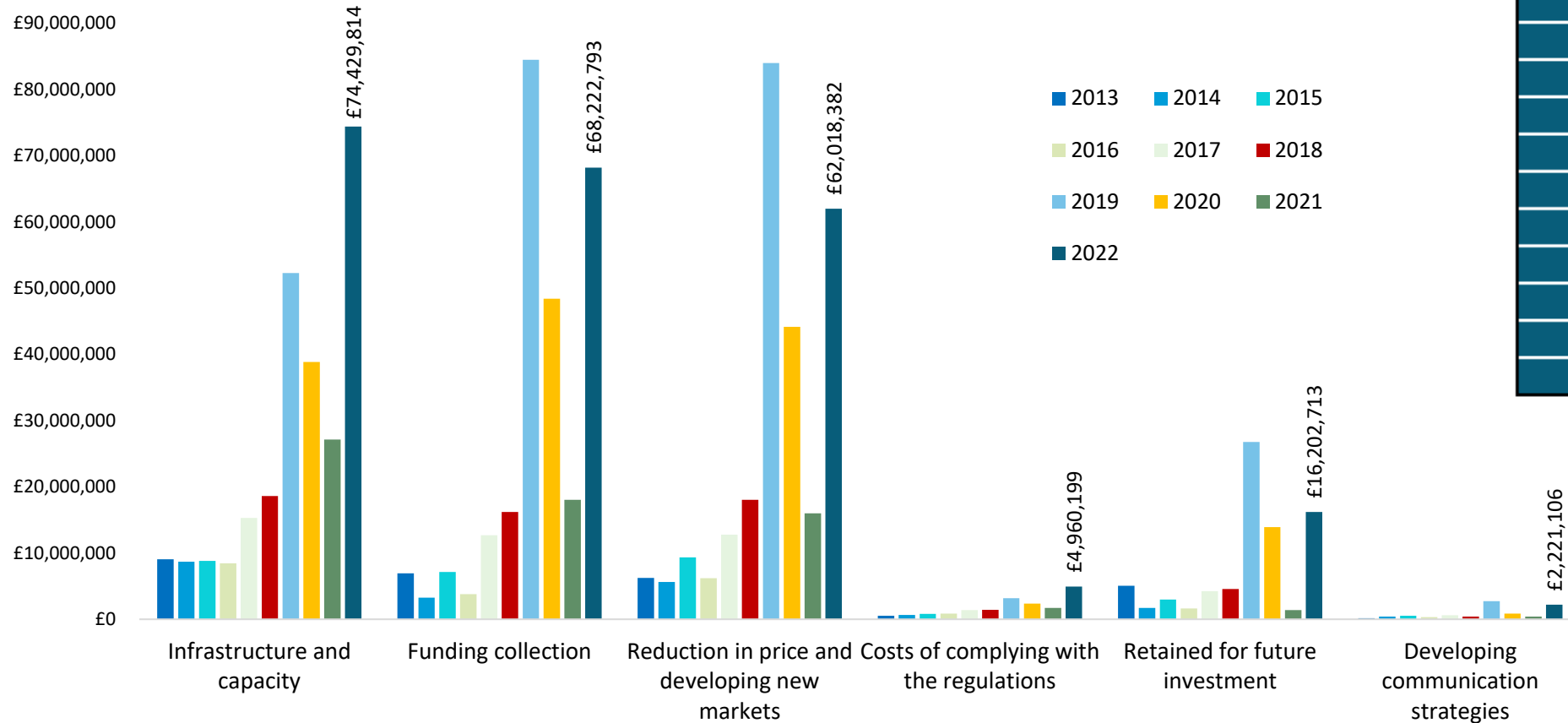


Country	Region	OECD	Export Percentage from England
TURKEY	Europe	Yes	23.9%
GERMANY	EU	Yes	13.6%
NETHERLANDS	EU	Yes	8.9%
BELGIUM	EU	Yes	6.4%
IRELAND	EU	Yes	5.6%
SPAIN	EU	Yes	4.8%
VIETNAM	Asia	No	4.6%
FRANCE	EU	Yes	4.3%
POLAND	EU	Yes	3.8%
ITALY	EU	Yes	3.2%
MALAYSIA	Asia	No	3.1%
BULGARIA	EU	No	2.1%
PORTUGAL	EU	Yes	2.0%
KOSOVO	Europe	No	1.8%
TAIWAN	Asia	No	1.7%
GREECE	EU	Yes	1.7%
LATVIA	EU	Yes	1.7%
INDONESIA	Asia	No	1.4%
ROMANIA	EU	No	1.2%
LITHUANIA	EU	Yes	1.2%
HUNGARY	EU	Yes	1.2%
EGYPT	Asia	No	0.6%
AUSTRIA	EU	Yes	0.4%
CZECH REPUBLIC	EU	Yes	0.2%
SOUTH KOREA	Asia	Yes	0.1%
SLOVENIA	EU	Yes	0.1%
SLOVAKIA	EU	Yes	0.1%
HONG KONG	Asia	No	0.1%
DENMARK	EU	Yes	<0.1%
ISRAEL	Asia	Yes	<0.1%
THAILAND	Asia	No	<0.1%
FINLAND	EU	Yes	<0.1%

2022 Plastic PRN/PERN income spend declaration UK vs Export



Plastic PRN/PERN income spend declaration 2013 – 2021 comparison



	Total
2013	£28.0m
2014	£20.4m
2015	£29.7m
2016	£21.3m
2017	£47.1m
2018	£59.3m
2019	£253.5m
2020	£148.6m
2021	£64.7m
2022	£228.1m
TOTAL	£900.6m

Source: Environment Agency

£261,725,462

£269,218,053

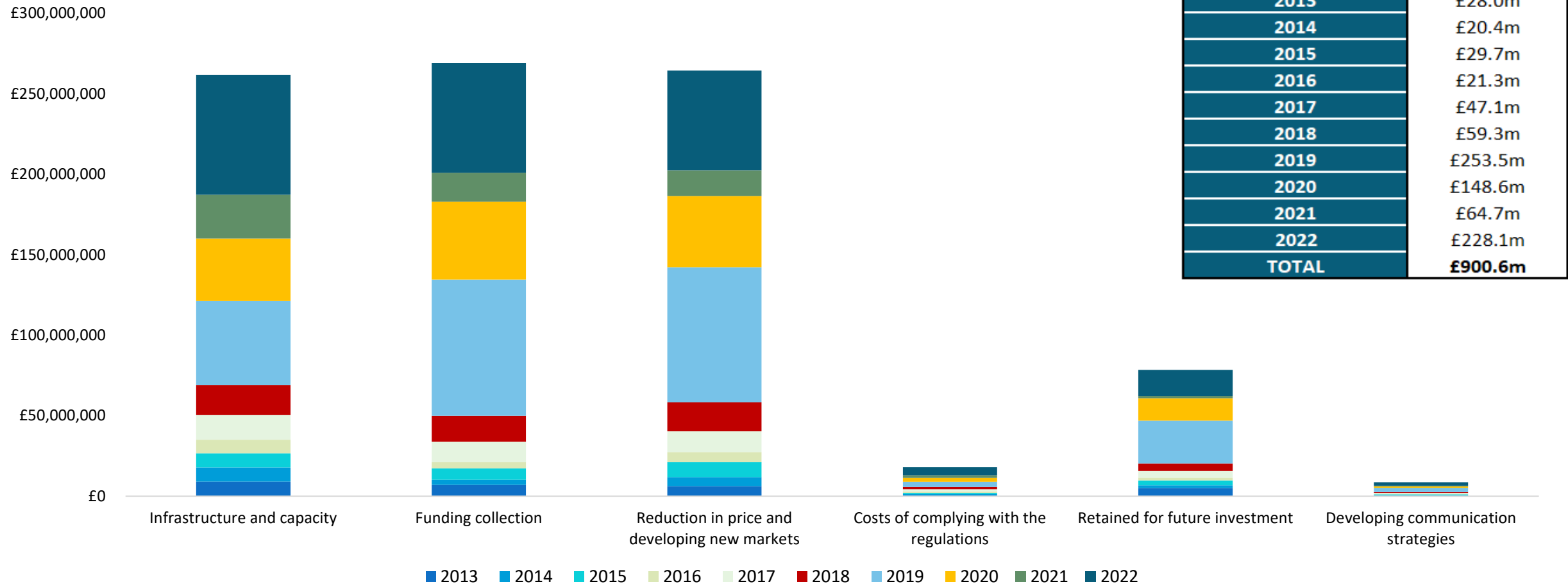
£264,488,437

£17,946,706

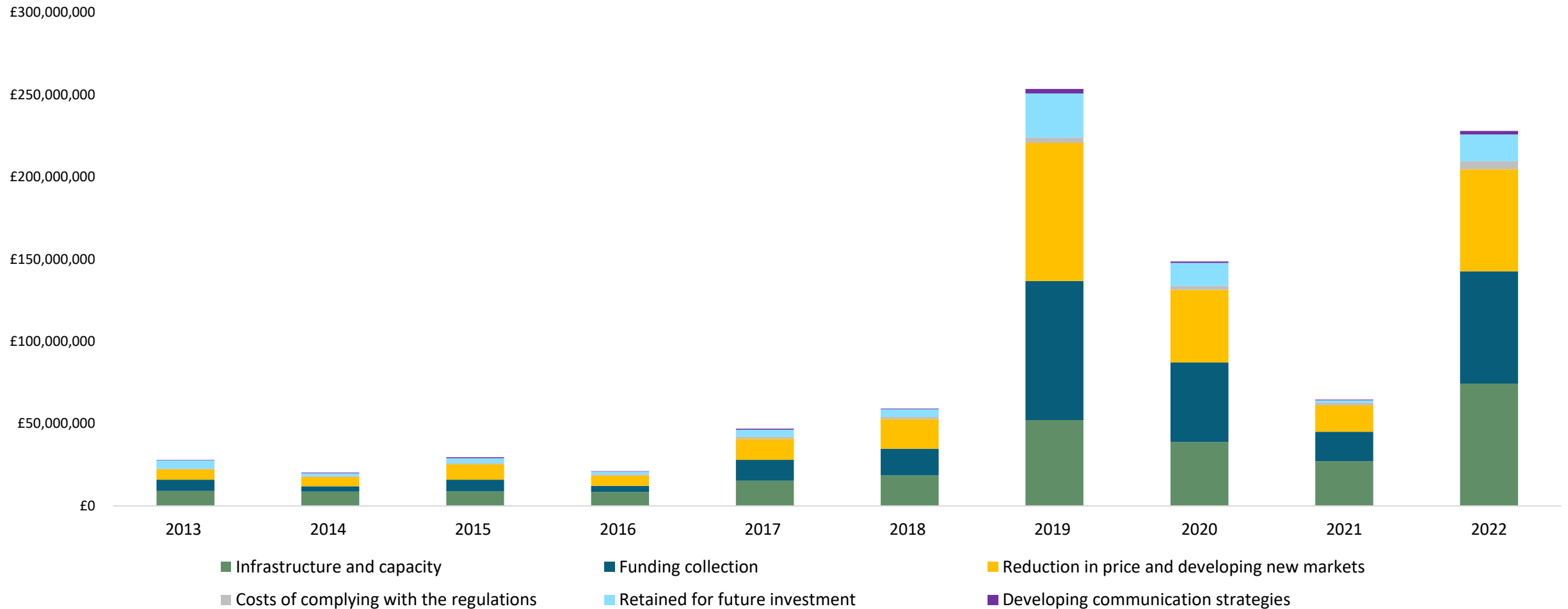
£78,505,722

£8,714,087

Plastic PRN/PERN income spend declaration 2013 – 2022 comparison



Plastic PRN/PERN income spend declaration 2013 – 2022 comparison



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