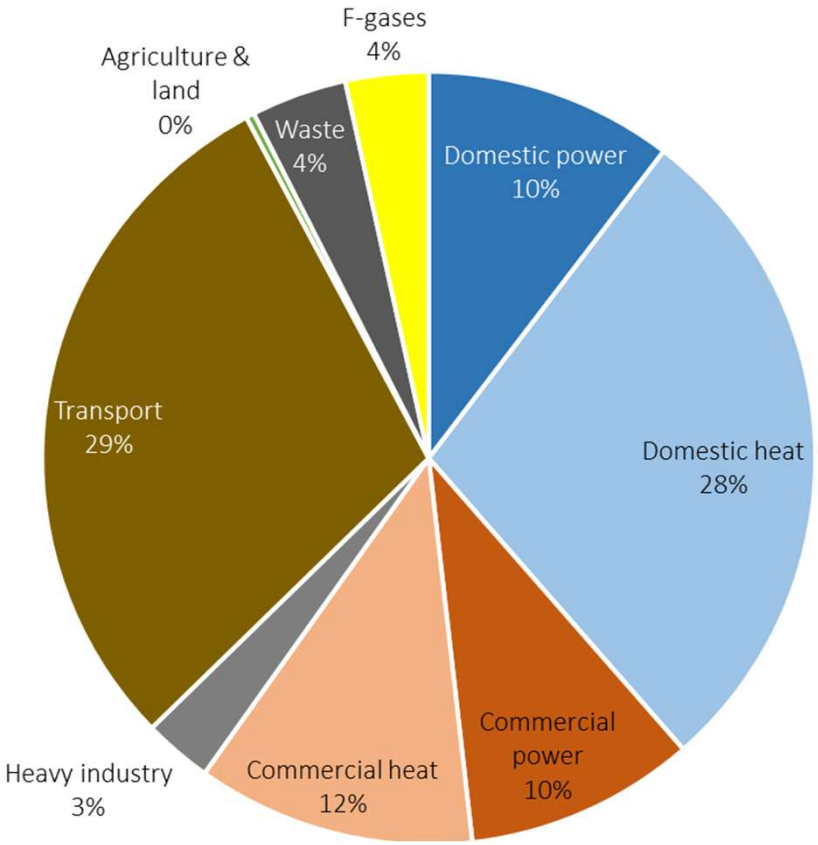
Torbay's greenhouse gas emissions - where we are and where we need to get to

Torbay climate strategy; nature based solutions

26th May 2022

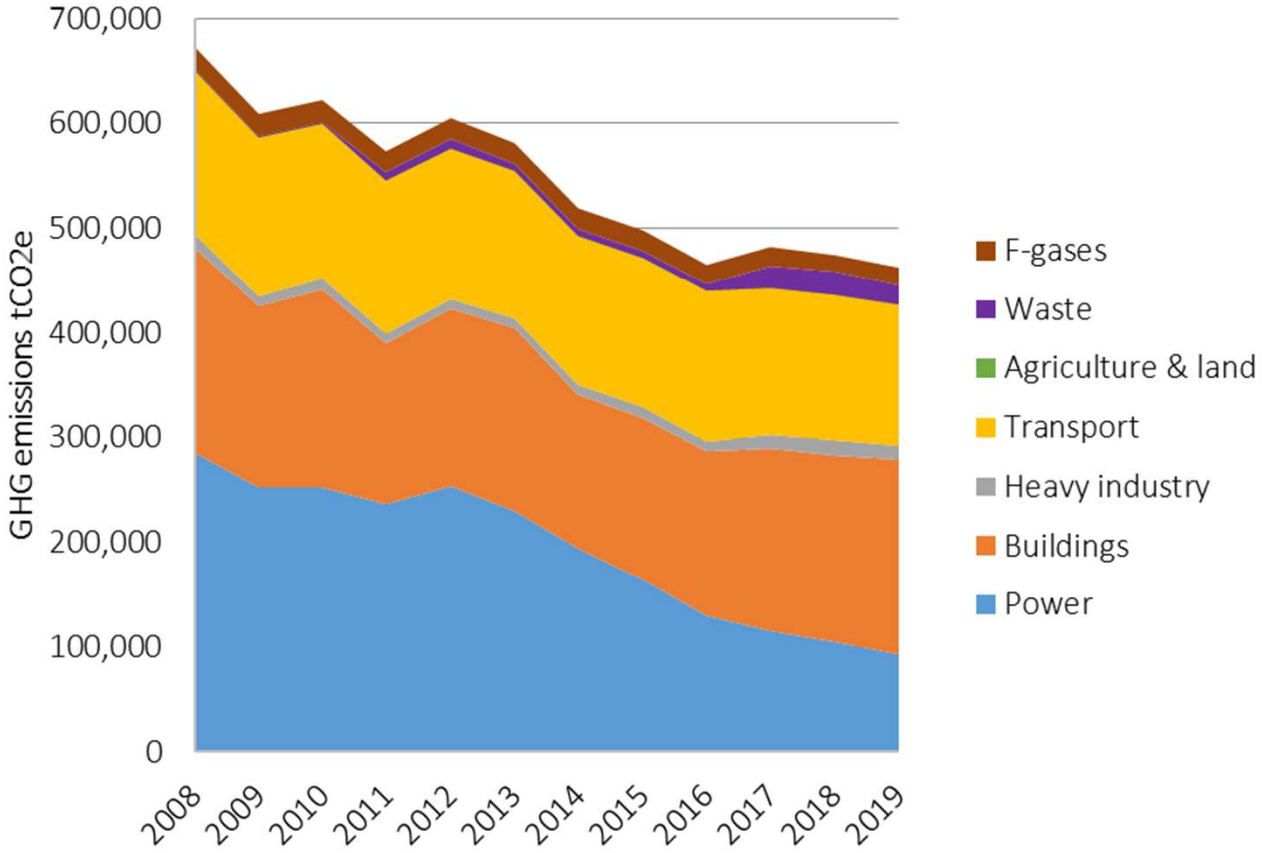
Tony Norton, Head of the Centre for Energy and the Environment

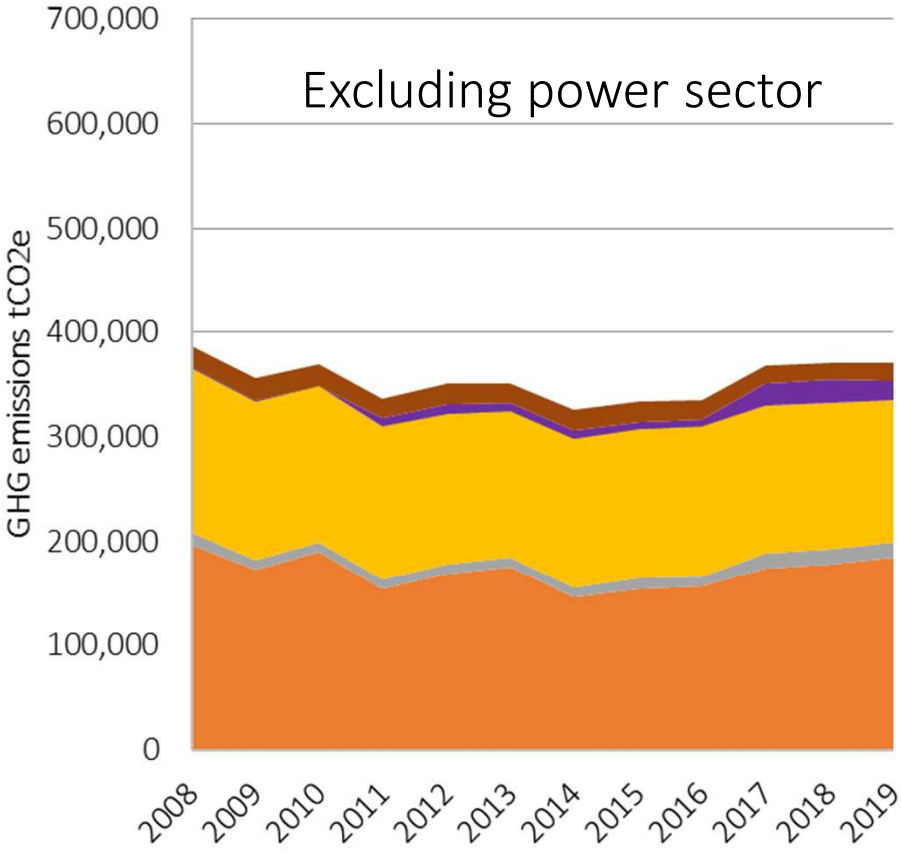
Torbay's 2019 greenhouse gas (GHG) emissions



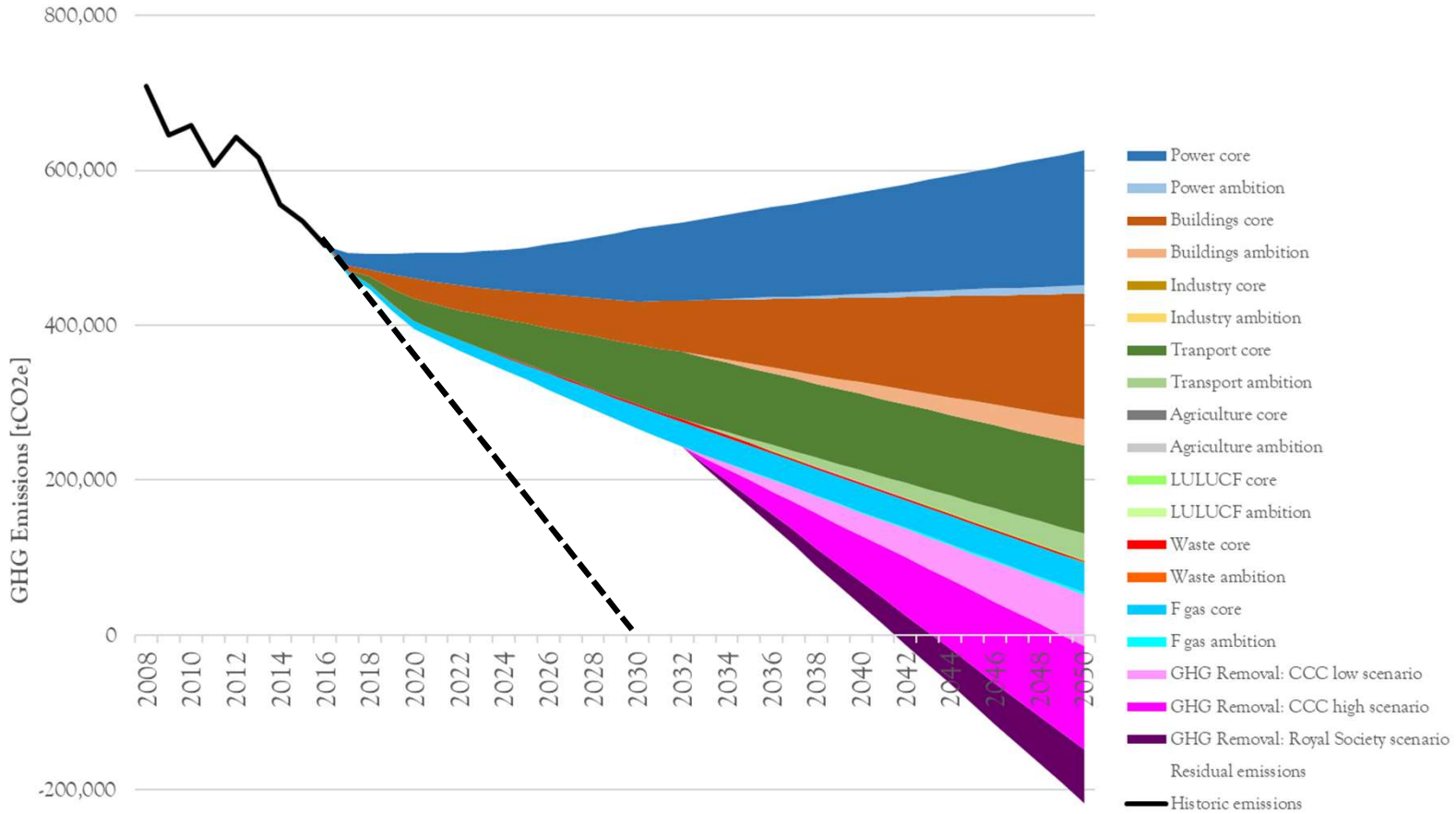
Total GHG in 2019 462 kt carbon dioxide equivalent (CO_2e)

Historic GHG emissions in Torbay

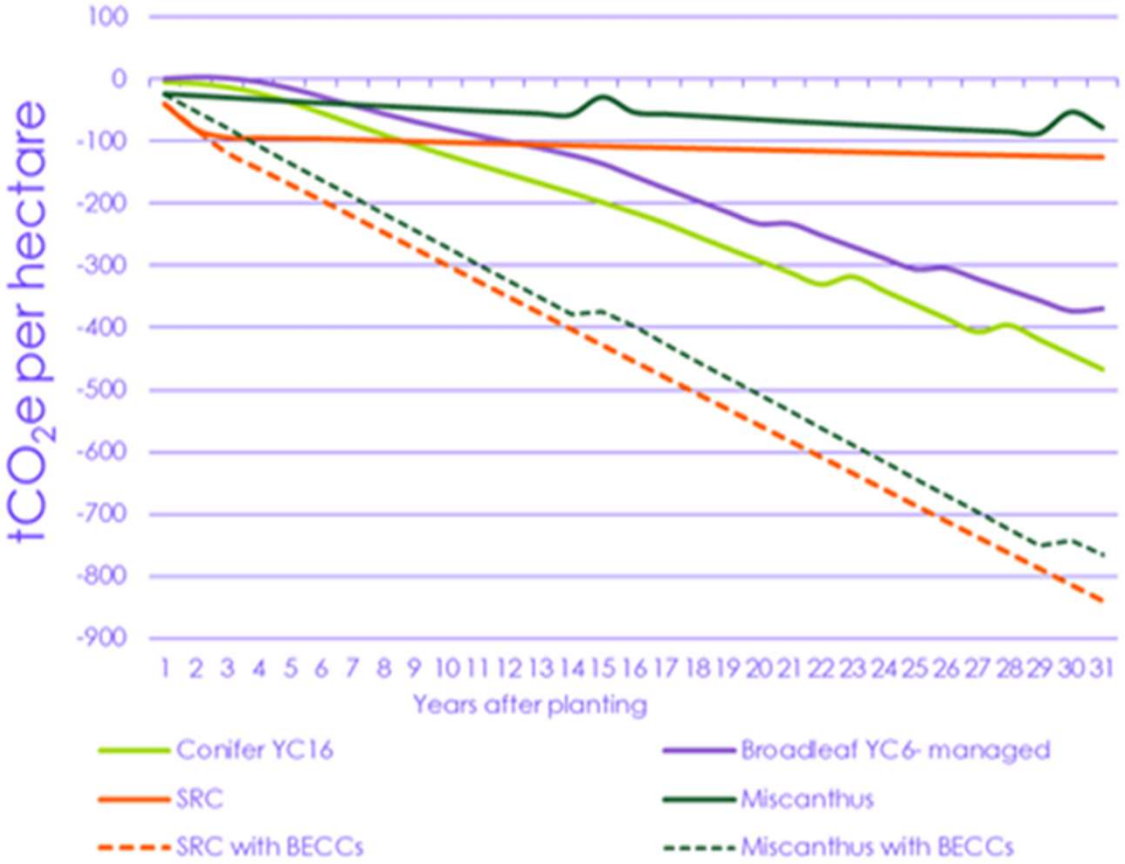




Net Zero 2050 GHG emissions in Torbay



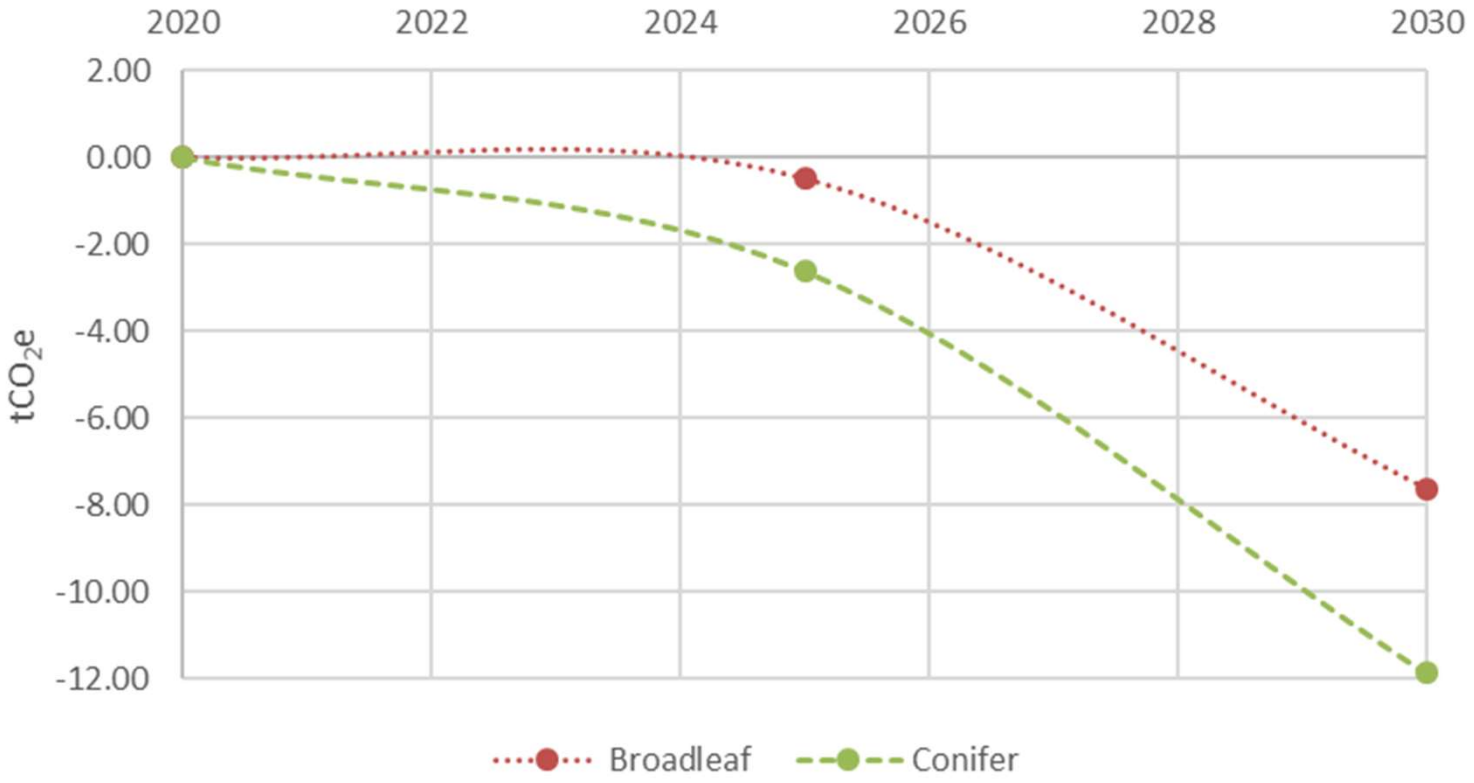
Land use change - afforestation



Source: CCC

Emissions reduction from planting one hectare

assume even planting over 9 years commencing 2022



Torbay's green space

Ward	Hectare	Ppn.	Space [illegible] (sqm)	Space [illegible] People (sqm)	Parks & Ga[illegible]ns	Country-side (sqm)	Amenity Green Space (sqm)	[illegible]	Outdoor [illegible] (sqm)	[illegible]
St. Marychurch	559	11,351	8,229	37,789	29,921	1,490,864	144,120	17,933	6,564	0
Ellacombe	96	7,358	4,105	1,276	12,901	61,075	8,656	0	1,412	0
Clifton with Maidenway	143	7,043	980	0	0	8,821	14,001	0	0	1,567
Preston	319	10,281	1,183	0	36,098	1,015,535	53,414	0	0	16,928
Cockington with Chelston	742	11,116	2,140	136	202,217	1,895,024	140,195	49,200	2,013	62,525
Shiphay with the Willows	415	8,252	5,154	0	7,256	267,352	25,253	0	0	0
Tormohun	302	10,934	1,065	3,023	114,198	110,414	63,825	22,168	50,377	0
Wellswood	406	7,621		0	12,898	889,472	70,467	0	0	3,209
Watcombe	196	7,359	5,951	0	0	121,890	51,114	7,842	0	0
Berry Head with Furzeham	339	10,157	2,411	0	33,056	466,773	42,567	23,776	10,411	2,800
St. Marys with Summercombe	295	7,302	1,268	0	30,964	156,540	32,283	0	10,055	0
Churston With Galmpton	1005	6,793	3,961	0	0	1,075,834	19,932	21,387	496,461	0
Goodrington With Roselands	319	6,873	725	0	37,225	215,893	229,253	0	54,005	6,642
Blatchcombe	1103	10,165	7,132	0	0	207,128	30,452	0	3,166	0
Roundham with Hyde	155	7,096	1,540	1,984	126,078	0	8,306	23,778	8,671	0
Totals	**6394**	**129701**	**45844**	**44208**	**642812**	**7982615**	**933838**	**166084**	**643135**	**93671**

Source: Torbay greenspace strategy SPD, 2006

Emissions reduction from afforestation to 2030

Area	ha	t CO2e		% of 2019 emissions	
		Broadleaf	Conifer	Broadleaf	Conifer
Torbay	6,394	-48.7	-75.9	-10.5%	-16.4%

Summary

- Emissions decline to date is a result of renewable energy outside Torbay
- Action is needed in all sectors
- Land use change and afforestation has a role to play
- Afforestation can make and impact but it needs to be on a large scale

Torbay's greenhouse gas emissions - where we are and where we need to get to

Torbay climate strategy; nature based solutions

26th May 2022

Tony Norton, Head of the Centre for Energy and the Environment