

PFBE Mass Balance for ETFE Manufacture at AGCCE

	Amount /t per year		
	2019	2020	2021
Used	84.4	63.0	84.7
Purchased (1)	n/a	n/a	84.3
Polymerised in to polymer (2)	89.8	70.1	89.6
Emitted to atmosphere (filling) (3)	0.45	0.36	0.45
Emitted to atmosphere (SLG) (4)	0.42	0.42	0.42
Emitted to river (5)	n/a	n/a	n/a
Emitted to landfill (6)	n/a	n/a	n/a

Notes:

- 1) Does not include PFBE used in PTFE manufacture (see separate PFBE mass balance for PFBE used in the PTFE polymerisation process).
- 2) AGCCE data is being refined as currently indicating more polymerised than used. We expect close to 100 % incorporation.
- 3) Residual amounts in drum after filling which evaporates over time.
- 4) Single trial and challenging analytical measurements. Have used same value for all years, further investigations on-going. Assumes 365 days rather than 330 days operation (if based on 330 days operation, value is 0.38 t).
- 5) Expectation that losses to river is low our evidence indicates the majority of PFBE is incorporated in to the polymer; further investigations are on-going to confirm this.
- 6) Expectation that losses to landfill is low our evidence indicates the majority of PFBE is incorporated in to the polymer; further investigations are on-going to confirm this. Waste ETFE is sent to landfill. Unpolymerised PFBE is not sent to landfill (except any potential residual in drums which is already counted in the emission to atmosphere).

