



Doncaster, Great Britain

WWTP Data

Type of WWTP	Municipal
Capacity	20.000 PE
Biological stage	6 pockets
	1 anoxic pocket (275 m ³)
	5 aerobic pockets (1.387 m ³)
Operation	aerob
Treatment	Nitrification
	Partial Denitrification
Cleartec® Modules	20



Why did they upgrade WWTP?

Armthorpe STW was already on the limit of meeting the ammonia consent, when effluent values should be tightened. Therefore, the appropriate method to meet the future consent was to enhance the treatment performance of the ASP plant by upgrading it to an IFAS.

Why IFAS?

Instead of doing a conventional enlargement resulting in building new tanks (AT and FST), installation of a new pump station and of course purchasing additional land, the decision was made to install a textile fixed bed IFAS system. 20 liftable Cleartec® Modules were installed into the 5 aerobic pockets.

Which results are reached by IFAS?

The possibility of a performance increase even with existing tank volumes results in high operational stability, typically low ammonia effluent values (<1 mg/l) and, compared to a conventional enlargement, a saving of Carbon Footprint of about more than 50 %.

	Conventional	Cleartec	Saving
Notional embedded carbon footprint	760 t CO ₂	360 t CO ₂	53 %
Notional operational carbon footprint	910 t CO ₂ /a	400 t CO ₂ /a	57 %



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