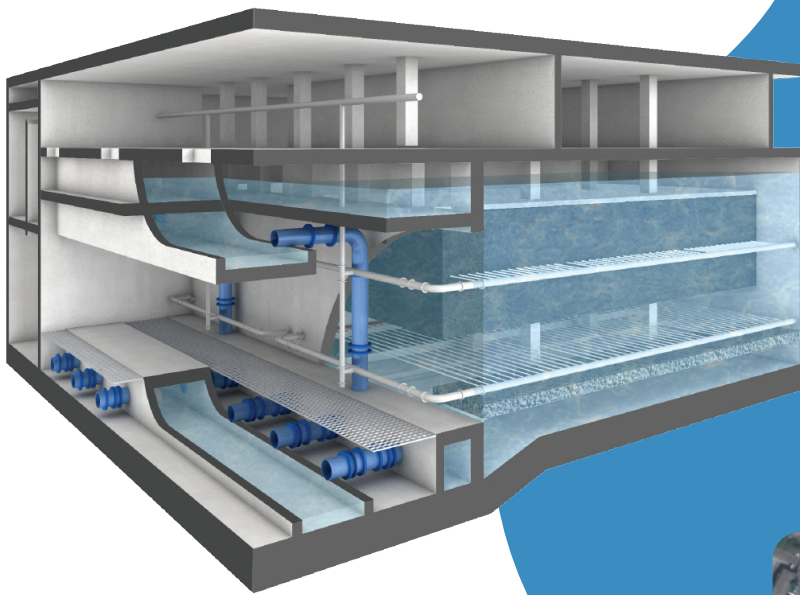




PROTEUS Primary Filtration

PROTEUS is a high-rate filtration system. Using proprietary floating media, it effectively removes suspended solids through physical filtration. As a replacement for primary clarifiers, **PROTEUS** Primary can shrink existing process footprints and unlock hidden capacity while increasing carbon capture and digester gas production.



Unlock Space Inside Your Facility

PROTEUS shrinks traditional process footprints, making room for new facilities, upgraded treatment, and more.

REFERENCE: Jungnang WRRF | Seoul, Korea
250,000 m³/d process train (66 MGD)

PROTEUS Primary Filtration reclaimed 80% of primary clarifier footprint.

PROTEUS+ BNR Biofilter trains added total nitrogen treatment while recovering 50% of aeration basin footprints at the same time.

Less Aeration, More Biogas!

CARBON DIVERSION THROUGH PRIMARY TSS CAPTURE

Grab more solids upstream of aeration basins & send them to digestors for maximum energy efficiency.



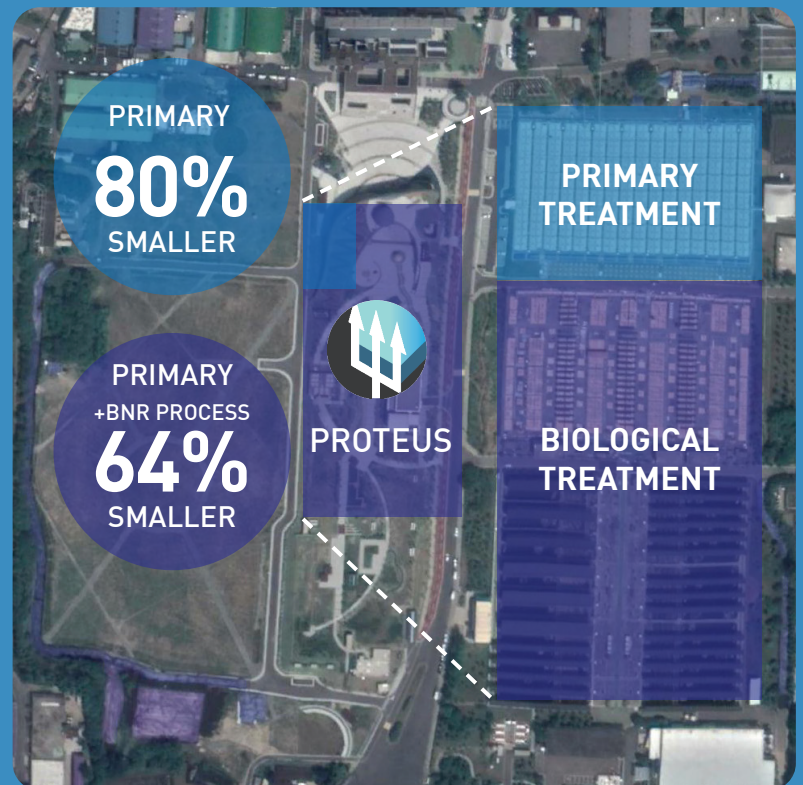
20-30% **INCREASE** in gas production



10-25% **INCREASE** in secondary treatment capacity



10-25% **REDUCTION** in aeration energy

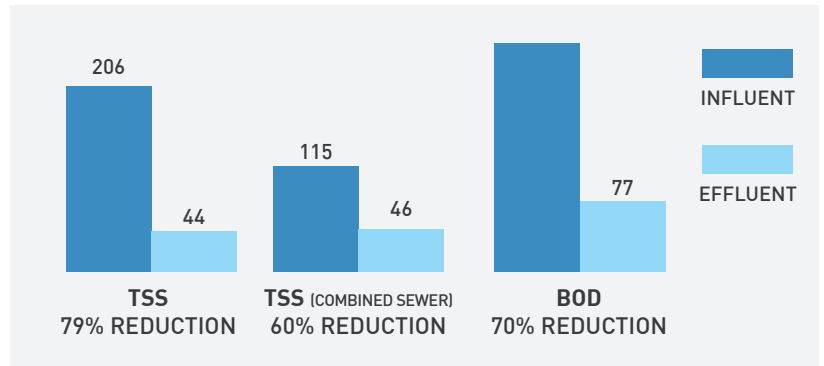
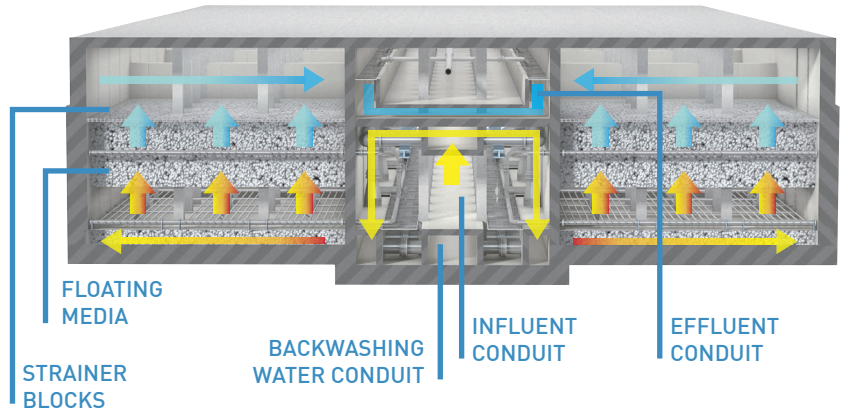




PROTEUS

Primary Filtration

- Smallest Footprint: Save 50-80%
- Less Aeration, More Biogas
- Over or Underground Installation - Easy Odor Control
- No Clarifiers: No Washout or Bulking
- Treats & Backwashes by Gravity Alone: No Pumping Necessary
- Maximum Peaking Factor for Wet Weather Flows



PROTEUS Primary versus primary clarifier for a 100,000 m³/day (26.4 MGD) treatment plant

	PROTEUS Primary	Conventional Primary Clarifier
Capital Cost (USD)	\$10M	\$10M-12M
Per Volume (USD)	\$100/m ³ (\$0.38/gal)	\$100-120/m ³ (\$0.38-0.46/gal)
Detention Time	10 min	120 min
Overflow Rate (m ³ /m ² /d)	120	40
Footprint (m ² /m ³ d)	0.009 (35%)	0.025 (100%)

The information provided in this brochure contains merely general descriptions or characteristics of performance which in actual case of use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract.

If you'd like to learn more, please contact info@tomorrowwater.com

www.tomorrowwater.com

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