waste water technologies

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Onewater vs Conventional

Technical Benchmarking

	Onewater®	Biological	Phisical Chemical	Evaporation	Membranes Osmosis
Treatability Spectrum	High	Low	Medium	Medium	High
Stability with Changes	High	Low	High	Medium	Medium
Scalable & Modular system	Yes	No	Partial	No	Partial
Wide Working Temperature Range	Yes	No	Partial	No	Partial
Adaptability to Flow Variations	High	Low	Medium	Medium	Low
Odorless	Yes	No	Yes	Yes	Yes
Relocatable	Yes	No	Partial	Yes	Yes
Different Quality Outputs	Yes	No	No	No	Partial
Start-up Time	Quick	Slow	Quick	Quick	Medium

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Treatment Results Benchmarking

	Onewater®	Biological	Phisical Chemical	Evaporation	Membranes Osmosis
Organic Matter Removal Efficiency	>95%	80-90%	40-60%	10-99%	>90%
Nutrients Removal Efficiency (N,P,K,S)	>95-99%	50-95%	>90%	>95%	>95%
Metals Removal Efficiency	>99%	0%	>95%	>99%	>90%
Salts Removal Efficiency	>90%	0%	<20%	>99%	>99%
Pesticide Removal Efficiency	>90%	0%	20-95%	>95%	>95%
Pathogens Removal Efficiency	>99%	<5%	<5%	<5%	10-80%
% In-process water loss	<5%	10-20%	10-20%	10-25%	30-50%
Sludge Quantity	<5%	10-30%	10-20%	5-20%	20-30%
Post-treatment water quality	Potable/pure	Irrigation	Industrial	Irrigation	Potable/pure

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Finantial Requirements Benchmarking

	Onewater ®	Biological	Phisical Chemical	Evaporation	Membranes Osmosis
Treatment Plant Low Investment	Yes	No	Medium	Medium	Medium
Low Operative Costs	Yes	No	Medium	Medium	Medium
Low Electrical Consumption	Yes*	No	Medium	No	Medium
Low (zero) Reactives Consumption	Yes	Medium	No	Medium	Medium
Easy setting-up	Yes	No	Medium	Yes	Yes
Low Civil Works Requisites	Yes	No	Yes	Yes	Yes
Low Workers Qualification Requir.	Yes	Medium	Medium	Medium	No
Generated Sludge Quality	Stabilized	Organic	Inorganic	Salines	Salines
Generated Sludge Post-treatment	Dehydration	Compost	Stabilize	Stabilize	Stabilize