

Wastewater Treatment & High Quality Discharge for Small Communities



Newterra Value Proposition

- Pre-fabricated modular facilities
- Scalable
- Rapid deployment
- High quality effluent



Newterra Offers Scalable, Cost-Effective Solutions For Development Projects

Customer Need

Prospects are facing financial or logistical barriers to providing regulatory-compliant sewage treatment to serve a development project or to replace or supplement existing treatment infrastructure. Challenges can include:

- Lack of proximity to existing "big pipe" collection system
- Insufficient capacity at the serving treatment plant
- Immediate capacity requirements don't warrant the capital expenditures of full scale build out
- Limited space, an out-of-compliance treatment system
- High cost and potential delays of stick-build construction
- Need for permeate that's suitable quality for reuse or direct discharge

Newterra Solution

- Modular membrane bioreactor (MBR) sewage treatment system
- Scalable in phases as capacity requirements grows to preserve capital
- Easily transported and rapidly deployed
- Minimizes civil costs and on-site construction
- High quality permeate meets strict regulatory requirements
- Wide range of discharge options and reuse applications

Differentiation

Newterra systems:

- feature conservative engineering based on thorough understanding of influent quality and effluent requirements
- are designed from proven, standard modules but uniquely tailored to the individual customer's need
- are compact, self-contained, pre-built and pre-tested for fast deployment and startup
- feature a lower, phased installed cost for more reasonable capital deployment
- incorporate proven, reliable MBR technology to accommodate variations in flow and loading rates
- are built to very high standards for long-term performance and simplified maintenance.
- ship complete facility with all necessary climate controls for any geography
- feature newtN SCADA to simplifies data logging, remote monitoring and control



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Specifications – Flexible Building Block Designs

System Name	Enclosure	Tankage	Capacity GPD	Capacity m³/Day
N-MBR 7	8' x 20'	Incl: Internal	1,800	7
<i>N</i> -MBR 12	8' x 40'	Incl: Internal	3,200	12
<i>N</i> -MBR 50	16' x 40'	Incl: Internal	13,200	50
<i>N</i> -MBR 100	24' x 40'	Incl: Internal	26,400	100
<i>N</i> -MBR 125	8' x 120'	Incl: Internal	33,000	125
<i>N</i> -MBR 250	16' x 40'	Engineered	66,000	225
<i>N</i> -MBR 500	16' x 40'	Engineered	135,000	500
<i>N</i> -MBR 750	32' x 40'	Engineered	200,000	750
<i>N</i> -MBR 1600	Custom	Engineered	420,000	1600
N-MBR 3200	Custom	Engineered	850,000	3200
N-MBR - Cust	Custom	Engineered	>850,000	>3200

Engineered Tankage may be containerized, in-ground (concrete or fiberglass) or above ground bolted steel or other and is custom configured for the application

- Enclosure sizes do not include tankage if tankage is noted as Engineered
- Configuration may vary depending on:
 - Redundancy Requirements
 - Variability in flows or seasonality (turndown)
 - Influent strength
 - Outlet criteria, especially P and TN
 - Climate conditions
- Sludge treatment options available and can be built in to system
- Enclosures can be finished to match customer specification
- newtN SCADA system for data acquisition, offsite control, alarm monitoring and more

Optional Rubber Membrane Roofing Understand Roofing Systems can be custom cladded to suit environment

Exceptional Effluent Quality

Constituent	Typical Ef uent		
BOD ₅	<2.0 mg/L		
TSS	<1.0 mg/L		
NH ₃ -N	<0.5 mg/L		
TP	<0.05 mg/L		
TN	<3.0 mg/L		
Turbidity	<0.5 NTU		

Accommodates Wide Flow Variations



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