

# A3-USA MBR Applications



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**Water and  
Wastewater  
Membranes**

# A3-USA MBR Applications

## MBR Applications and Clients

- Decentralized commercial & residential MBR plants
- Compact containerized MBR package plants
- Larger scale MBR plants
- Water reuse and recycling facilities
- Military camps - mobile MBR package units
- Commercial users
  - Hotels and casinos
  - Supermarket
  - Marine industry
  - Laundromats
- Industrial users
  - Food processing
  - Textile industry
  - Slaughterhouse
  - Fish farms
  - Beverage industry
  - Breweries
  - Paper industry
- Pharmaceutical industry
- Real estate developers
- Small municipal communities
- Areas that have enacted stringent wastewater effluent regulations
- Sludge dewatering (up to 3%)
- Industries that are forced to update their current treatment facilities
- Emphasis on areas with declining water resources
- Biological landfill leachate treatment

## Case Studies

### *A3 MaxFlow™ MBR Containerized Package Plants*

A3 MaxFlow™ membrane modules are used in containerized package plants to meet the needs of a wide range of applications. At one end of the spectrum are self-contained plants for small decentralized developments, communities and resorts. At the other end of the spectrum, containerized package plants are available for modular configuration to treat virtually any size and type of waste stream.



20-foot MBR plant consisting of one double-deck container to treat the wastewater of German Armed Forces in Kunduz, Afghanistan

### *A3 MaxFlow™ Sludge Dewatering*

A3 offers sludge dewatering for small wastewater treatment plants having no onsite dewatering equipment (belt filter presses, decanters, etc.). A3's unique membrane dewatering process achieves a significant reduction (up to 80%) of excess sludge volume.



■ Excess Sludge @ 0.5%  
■ Excess Sludge @ 3%