

Overview

Normal treatment of landfill leachate is hard to meet the standard set by the Chinese government. It makes membrane system become essential.

In Xuzhou, China, a municipal solid waste landfill, based on the local condition, reformed the BIO process to external TMBR system. This present process sharply reduced the content of organics, ammonia nitrogen, total nitrogen and etc. Less water use, less membrane demand, less project cost.

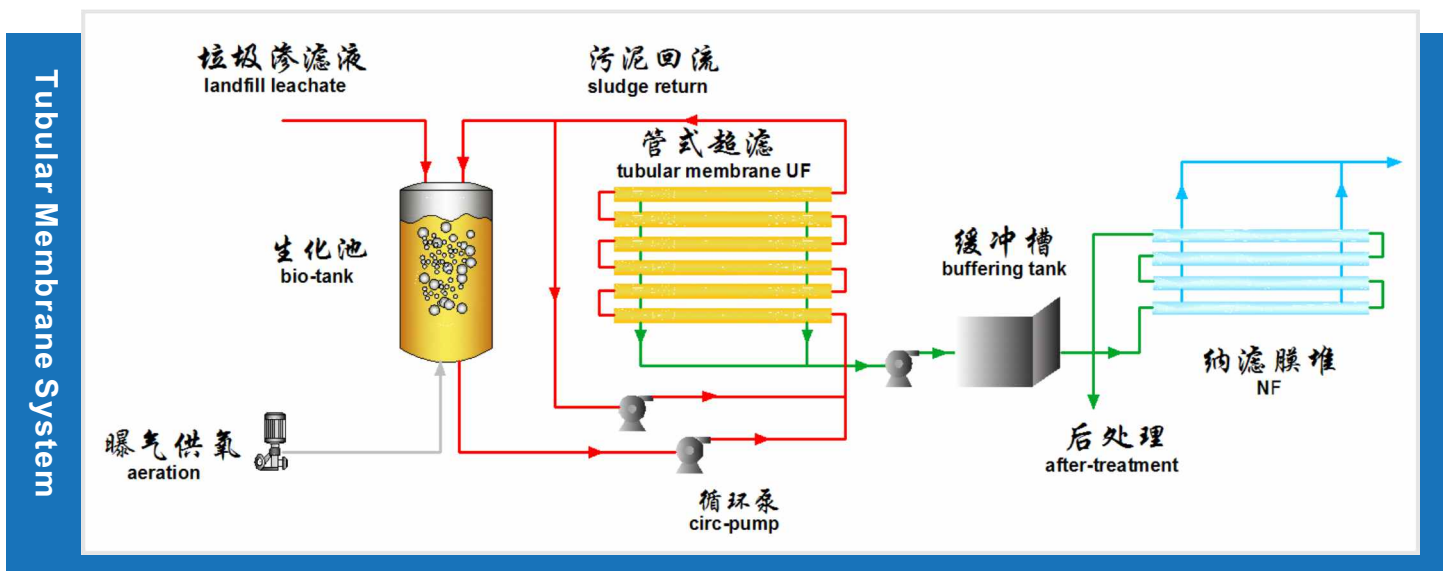
Nowadays, MBR+NF/RO process has become a typical process for landfill leachate treatment.

Project Brief

Project Location	Xuzhou, China
Treatment Capacity	200m ³ /D
Started at	June of 2012
Membrane Model	KMTB-M-FU-0803M
Specification	8mm PVDF F200N TM

Item	Unit	Inlet Water	Outlet Water
COD _{cr}	mg/L	12000	≤ 100
BOD ₅	mg/L	5500	≤ 30
NH ₃ -N	mg/L	1800	≤ 25
TN	mg/L	2000	≤ 40
SS	mg/L	1000	≤ 30
pH		6 - 9	≤ 6 - 9

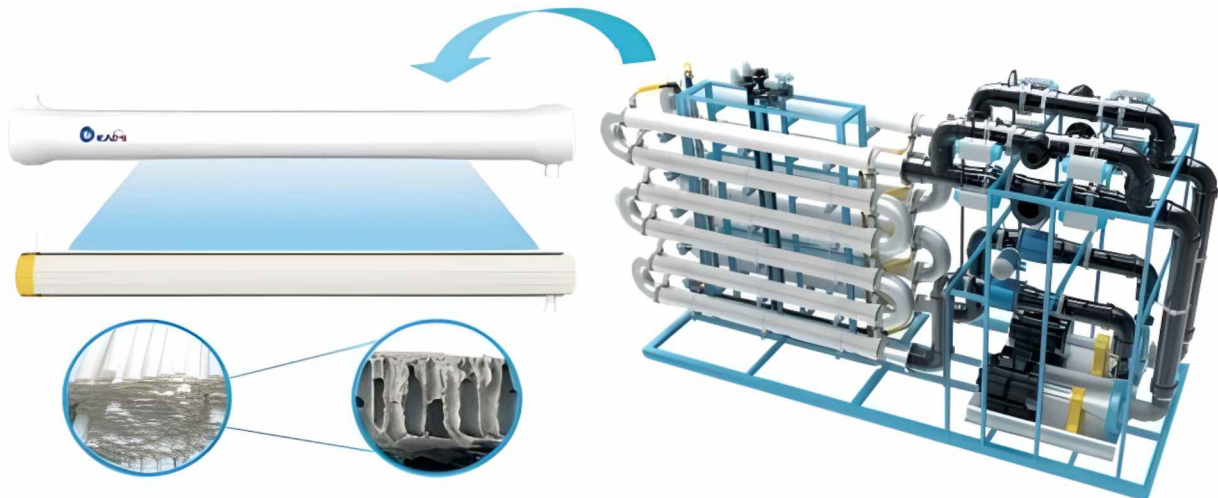
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Process Advantages

- Membrane with strong anti-fouling property and high regeneration performance.
- High flux, is 6 to 10 times more than common submerged MBR.
- Equipment highly integrated, small footprint, strong resistance to impact.
- Independent running, high degree of automation, low cost of labor.
- Membrane is unbreakable, not easy to clog and has long service life; single membrane can be replaced separately.
- Reliable operation, service life can be up to 6 years.

Membrane Module & System



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