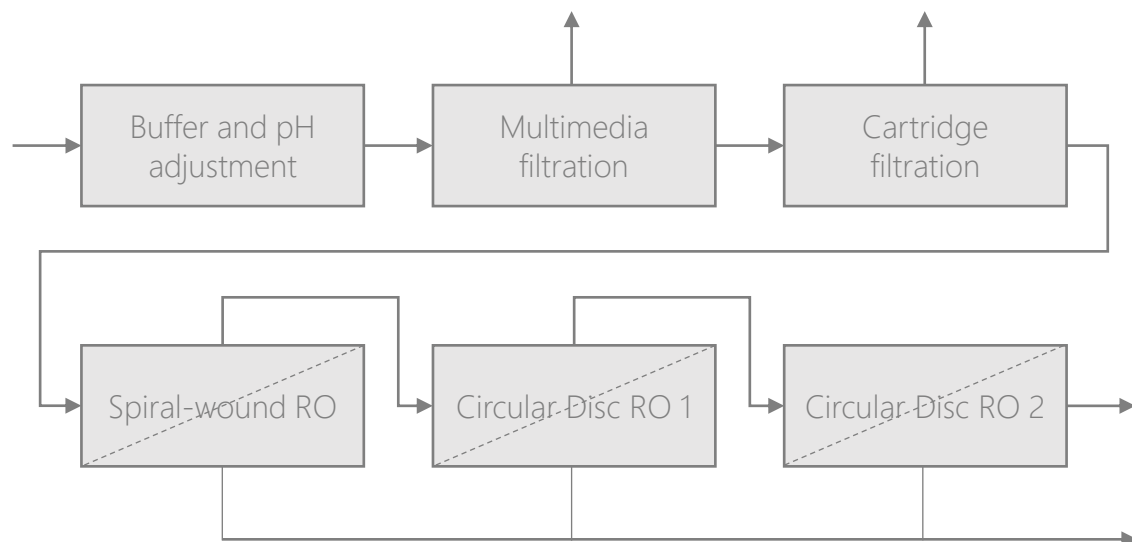


Location Romania
Capacity 156 m³/d
Start-up Q4 2017

Problem Landfill leachate is characterized by high contents of organics, ammonia (which may inhibit biological processes), TDS and heavy metals

Solution To treat the leachate from a municipal solid waste landfill, the following treatment layout has been installed at the Client's site:



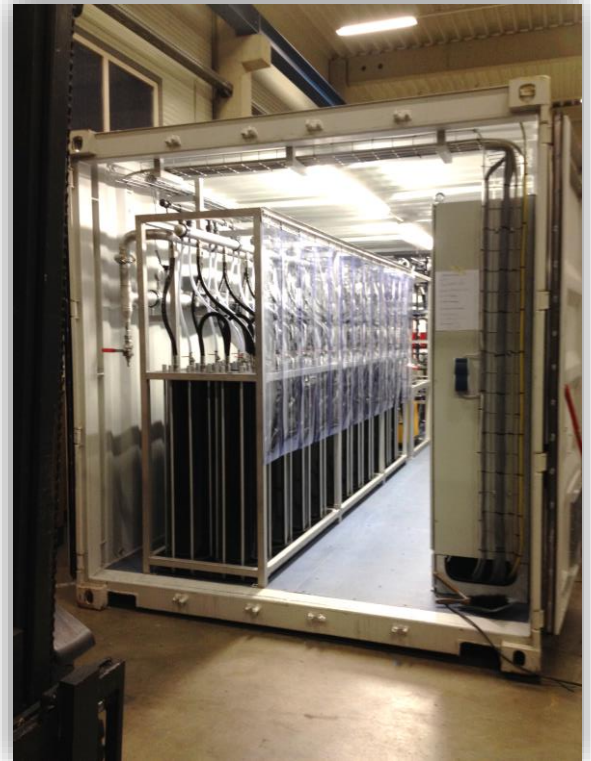
The resulting concentrate is either disposed of as special waste or recirculated back to the landfill

Key point Landfill leachate treatment plants may be equipped with our CD-RO modules to be able to cope with the high organics contents



Thanks to the innovative design of our CD-RO modules (up to 72% less pumping power is required when compared to other plate-and-frame RO solutions), OpEx is minimized.

Within the following table, the main operating data of the CD-RO units are briefly summarized:



Parameter	Unit	CD-RO 1	CD-RO 2
Feed flow	m ³ /d	34.3	17.2
Feed conductivity	mS/cm	38.0	76.0
Permeate conductivity	mS/cm	2.5	5.0
Flux at operating temperature	LMH	5.7	4.0
Recovery rate	%	50	40