Company News

NEW MEMBRANE, GIGA-MODULE TO BE PILOTED

Clean Membranes, a US-based membrane company founded to commercialize technology developed at MIT, told WDR that it will pilot its Neophil UF membrane at the town of Amherst, Massachusetts. The test will be conducted in cooperation with the department of civil and environmental engineering at the University of Massachusetts, Amherst.

According to Michael Grossman, Clean Membrane’s sales engineering manager, the Neophil membrane is a fouling-resistant, PVDF hollow fiber membrane that operates in an outside-in, dead-end filtration mode. Developed jointly with Polymem and Arkema, the fibers are arranged in bundles (elements) and potted for mounting within a Gigamem module. A 24-inch (61cm) diameter Gigamem module contains 52 individual elements, while a 14-inch (36cm) diameter element contains 18 elements.

With recent water restrictions due to severe drought conditions across the state, Amherst is interested in investigating UF as a means for recovering municipal wastewater for beneficial reuse purposes, with a particular focus on the irrigation of town’s recreation fields. The pilot system will filter secondary effluent from the Amherst Wastewater Treatment Plant to demonstrate its ability to generate Class A reuse quality water.