

# Press release

Plainfield, IL – November 1<sup>st</sup>, 2016

## Veolia Water Technologies' HPD<sup>®</sup> evaporation technology and Multiflo<sup>™</sup> softening process chosen for Dow Pittsburg facility in California

**The Dow Chemical Company has awarded Veolia Water Technologies a contract for a total overhaul of the process water treatment plant at Dow's Pittsburg Operations facility in California. The technologies chosen were Veolia's proprietary Multiflo<sup>™</sup> for softening and HPD<sup>®</sup> MVR Evaporators.**

Dow has been investigating the replacement of an existing process water treatment system at its Pittsburg facility as the current system has come to the end of its life cycle.

The first stage of this new Veolia system is the [Multiflo<sup>™</sup>](#) process. This is a high rate chemical softening technology which features a modular multi-stage softening design that reduces installation costs. It is also more resistant to process upsets than a conventional reactor or clarifier system.

The feed to the process water treatment system exhibits seasonal variations in flow and composition. The plant has existing tankage to provide buffer capacity to moderate variations in softener feed flow. In order to accommodate the specified flow variation, two [HPD<sup>®</sup> Evaporators](#) were proposed, each with the capacity to accommodate 50% of the maximum design flow rate. These two evaporators used after the softening process use a Mechanical Vapor Recompression (MVR) configuration.

These HPD<sup>®</sup> MVR Evaporators enable a high quality recovered water stream to be produced and utilized as makeup water for the upstream processing facility on site. This is especially important to Dow due to the location of the plant. Veolia Water Technologies, Inc. CEO, Klaus Andersen, explained: *"California's water scarcity means water restrictions are quite common for many industrial operations. The solution that Veolia put forth will reduce the overall amount of water used by the facility and thus reduce its environmental impact. Long term, it will also be more economical for Dow."*

### About Dow

Dow (NYSE: DOW) combines the power of science and technology to passionately innovate what is essential to human progress. The Company is driving innovations that extract value from material, polymer, chemical and biological science to help address many of the world's most challenging problems such as the need for clean water, clean energy generation and conservation, and increasing agricultural productivity. Dow's integrated, market-driven, industry-leading portfolio of specialty chemical, advanced materials, agrosiences and plastics businesses delivers a

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broad range of technology-based products and solutions to customers in approximately 180 countries and in high-growth sectors such as packaging, electronics, water, coatings and agriculture. In 2015, Dow had annual sales of nearly \$49 billion and employed approximately 49,500 people worldwide. The Company's more than 6,000 product families are manufactured at 179 sites in 35 countries across the globe. On June 1, 2016, Dow became the 100 percent owner of Dow Corning Corporation's silicones business, a global company with sales of greater than \$4.5 billion in 2015, 25 manufacturing sites in 9 countries and approximately 10,000 employees worldwide. References to "Dow" or the "Company" mean The Dow Chemical Company and its consolidated subsidiaries unless otherwise expressly noted. More information about Dow can be found at [www.dow.com](http://www.dow.com).

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**Veolia** group is the global leader in optimized resource management. With over 174 000 employees worldwide, the Group designs and provides water, waste and energy management solutions that contribute to the sustainable development of communities and industries. Through its three complementary business activities, Veolia helps to develop access to resources, preserve available resources, and to replenish them.

In 2015, the Veolia group supplied 100 million people with drinking water and 63 million people with wastewater service, produced 63 million megawatt hours of energy and converted 42.9 million metric tons of waste into new materials and energy. Veolia Environnement (*listed on Paris Euronext: VIE*) recorded consolidated revenue of \$27.2 billion in 2015. [www.veolia.com](http://www.veolia.com)

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