

Demonstration site in Sweden

The Swedish Demonstration site, the R&D facility Hammarby Sjöstadsverk, is a platform for development and exchange of knowledge for technologies in water treatment and related environmental technology. It forms the basis for the Sweden Water Innovation Centre – SWIC. Hammarby Sjöstadsverk promotes cooperation among companies, experts/researchers and municipal sewage works to meet future challenges in the water and wastewater sector and to increase the export of Swedish knowledge and technology.

The facility is owned and operated by a consortium led by the Royal Institute of Technology (KTH) and IVL Swedish Environmental Research Institute. It is being used for both long-term national and international research programs/projects and consultancy, testing and development for the industry and other partners.

Hammarby Sjöstadsverk is located in the Stockholm suburb of Henriksdal, right next to Stockholm's largest municipal wastewater treatment plant (Henriksdal WWTP, run by Stockholm Water Company). A small fraction of the influent wastewater to Henriksdal WWTP is instead pumped to Hammarby Sjöstadsverk and the effluent from Hammarby Sjöstadsverk is then pumped back to the inlet of Henriksdal WWTP. Therefore, minimum risks



Parts of Hammarby Sjöstadsverk

are taken when conducting research on wastewater treatment at Hammarby Sjöstadsverk.

At Hammarby Sjöstadsverk, a number of pilot scale treatment lines are built such as regular activated sludge reactors, sedimentation units, a membrane bioreactor (MBR), digesters, anammox reactors, a sequential batch reactor (SBR), an ozonation unit, an activated carbon reactor, an upflow anaerobic sludge blanket reactor (UASB) etc. For the demonstrations within R3Water, the demo site is not limited to only carry out one demonstration at a time, there is potential to carry several demonstrations simultaneously.