



January 17, 2017

Dear ICS members,

It is my great pleasure to announce that the 2016 ICS Prize for the Green Chemical Industry will be awarded to **Tevatech** at Neot Hovav, which is part of **Teva pharmaceutical Industries**, for their activities to minimize the impact of their wastewater treatment process on the environment.

By applying high-end engineering and treatment technology Tevatech was able to reduce the levels of volatile emissions and eliminate odors while improving effluent quality and treatment capacity. In aerobic biological treatment, oxygen operates as the final electron acceptor. By using pure oxygen, air consumption for the treatment plant was lowered 30-fold in comparison with conventional treatment plant, which uses diffused aeration system. At the same time, stripping volatile organic compounds (VOC) has dramatically reduced emissions and the facilities footprint. Using mechanical mixing instead of air reduced foaming phenomena and diminished the use of chemical additives. Due to oxygen availability and homogenous distribution the H₂S formation became negligible with the resultant minimization of odor emissions from the plant. Furthermore, The high quality of the effluent enabled a second biological step to remove ammonia by a nitrification process. The combined effect of these achievements has led to the reduction of the environmental footprint of the treatment plant and secured a high level of sustainability.

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The winning Tevatech team: from left, Eng. Zohar Eldan, Wastewater technology Expert; Eng. Meirav Avigdor, Global Environment, TAPI; Eng. Aliza Azran, Head of Process Engineering.

Tevatech was established in 1995 as solvent recovery and wastewater treatment facility for Teva sites in Israel. Since 1998 the site started also producing Active Pharmaceutical Ingredients (APIs), meeting the standards of local and international regulatory agencies. Currently, the site is capable of manufacturing over 100 different APIs with production capacity of over 840 Mt/year in 19 production facilities.

Teva's policy drives all its facilities to comply with their TargetZero standards (zero incidents, zero injuries, zero releases) and maximal reduction of environmental footprint. Achieving these goals requires continuous innovation and motivation of all employees worldwide. In 2014, Teva Global Environment, Health and Safety (EHS) launched a global recognition program to reach EHS Excellence. In addition, Tevatech collaborates with other industries, primarily pharmaceutical plants, to jointly address environmental issues.

The award ceremony will take place during the first day of the 82nd ICS Annual Meeting, on February 13, 2017, in David Intercontinental Hotel, Tel Aviv.

Congratulations to the Tevatech people for their achievements!