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PST and DEI Launch Large Scale Silicon Tetrachloride Converter for Polysilicon Market

Solar and semiconductor polysilicon provider offers largest single train STC converter

MESA, Ariz. & HOUSTON--(BUSINESS WIRE)--Polycrystalline Silicon Technology Corporation (P.S.T.) today announced the most advanced silicon tetrachloride hydrochlorination technology in the polysilicon industry. The P.S.T. hydrochlorination converter for a 7,500 MTY (metric tons per year) polysilicon plant is P.S.T.'s latest advancement based on P.S.T.'s 45 years of technology, engineering, construction, and innovation in the polysilicon industry.

For solar and semiconductor grade polysilicon producers installing 10,000 MTY or larger production lines, the P.S.T. 7,500 MTY converter is a powerful technology advancement. It offers fewer controls, a smaller plant footprint and fewer operations' personnel. The 7,500 MTY converter follows the initial installation of P.S.T.'s 1,500 – 5,000 MTY hydrochlorination units between 2004 and 2008.

Leo Rogers, president of P.S.T. remarks, "When fewer chemical units are used in the manufacture of polysilicon, the advantages are lower capital and operating costs over plants with multiple smaller unit operations and, in addition with fewer operational units, simpler operations result which lead to lower on-site chemical buffer storage capacities and thus safer operations. The 7,500 MTY silicon tetrachloride to trichlorosilane converter is a continuously operated in-line system which avoids the frequent shut-downs required by thermal converters. Current clients have described the previous P.S.T. converters as robust and very reliable."

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The P.S.T. silicon tetrachloride to trichlorosilane 7,500 MTY (polysilicon production) hydrochlorination technology as well as the smaller P.S.T. hydrochlorination units are offered as stand-alone systems as well as being an integrated part of the full chlorosilane technologies offered by P.S.T. and P.S.T.'s alliance partner Dynamic Engineering, Inc. (www.dynamicengineer.com).

About P.S.T.

P.S.T., founded in 1980, is headquartered in Arizona, U.S.A. P.S.T. has designed, engineered, and constructed several Polycrystalline plants and has over 300,000 hours of plant operating experience. Design experience includes over five years of production experience in the hydrochlorination of silicon tetrachloride to trichlorosilane. Today, P.S.T. is a silicon technology licensing company that offers the most advanced complete designs for the chemical portion of Polycrystalline Silicon plants. For more information, visit www.pst-pst.com and www.hydrochlorination.com.

About DEI

Dynamic Engineering, Inc. is an engineering company focused on the high purity Chemical and Pharmaceutical Industries. DEI has built an experienced team dedicated to design of silane and trichlorosilane synthesis and purification processes for polysilicon production used in the solar and semiconductor industries. In 2010, DEI is celebrating its 25th year as a leader in its field with a continuous record of successful projects. Dynamic Engineering, Inc. is headquartered in Houston, TX with offices in Kalamazoo, MI and Shanghai, P.R.C. To learn more, visit www.dynamicengineer.com.

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