

Press Release

A TEC will install Flash Dryer for alternative fuels and new Alternative fuel system at Királyegyháza Cement Plant in Hungary

To reduce the moisture content of the alternative fuel (RDF) for the kiln, LAFARGE Cement Hungary Ltd. awarded A TEC a contract for the implementation of a new alternative fuel concept for the kiln front end of the kiln at Királyegyháza, near Pécs. It will consist of a system that enables the plant of feeding two parallel alternative fuel streams simultaneously; A TEC will provide its innovative Flash Dryer where material will be dried using residual hot gas from the Cl-bypass system and a satellite burner for firing of the material in the kiln. For the second RDF flow, firing in the kiln burner directly, a new alternative fuel receiving, handling, and dosing system will be part of A TEC's project.

The project will be commissioned in quarter 2, 2021.

The Királyegyháza Cement Plant is one of the leading manufacturers of high-quality cement in Hungary, with a yearly capacity of more than 1 Million tons of cement. LAFARGE believes that it can recycle 100 times more waste than produced during its operation. LAFARGE's aim for 2050 is to reach the net zero emission rate.

Flash Dryer for alternative fuels:

Reaching high thermal substitution rates (TSR) requires firing of alternative fuels at the kiln burner. To reach a stable sintering zone for the required clinker quality a high fuel quality (high LCV, small particle size) is needed, otherwise the clinker quality may suffer or the TSR can be limited. With the A TEC Flash Dryer various waste heat sources can be used (clinker cooler flue gas, bypass gas, preheater gas, etc.). The material is dosed to the hot gas flow in the flash dryer and transported with this gas flow, while the moisture is evaporated, to a cyclone and a subsequent filter where the fuel is separated from the gas flow and on-line fed to a kiln burner or a satellite burner. In addition to the drying the lifting effect of the gas can separate 3D impurities which contributes in a further increase of the fuel quality.

About A TEC

A TEC Production & Service GmbH is an engineering and technologies company located in Austria and focuses on **optimization and efficiency improvement of cement plants**. In total, A TEC has successfully completed more than 450 cement plant optimization projects.

Part of modern cement plant operation is the usage of **alternative fuels**. A TEC can offer the complete AF system for nearly any kind of solid and liquid waste materials including material handling, preparation, storage and feeding into the kiln.

Besides A TEC's core business of cement plant optimization, A TEC provides **consultancy and overall project management and supervision** for Greenfield and Brownfield projects (e.g. *EPCM*), including assistance in tendering process and assistance with environmental and other local norms and standards.

FACTBOX

- A TEC will install a new alternative fuel system with a Flash Dryer and a satellite burner for alternative fuels for the kiln front end at the Lafarge Cement Magyarország Kft., Hungary
- Scope of supply: mechanical EPC
- Expected impact: moisture reduction and quality increase of the kiln burner alternative fuels; increase of TSR
- Commissioning of the new system is planned in quarter 2/2021 after the annual winter maintenance shutdown on the plant

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