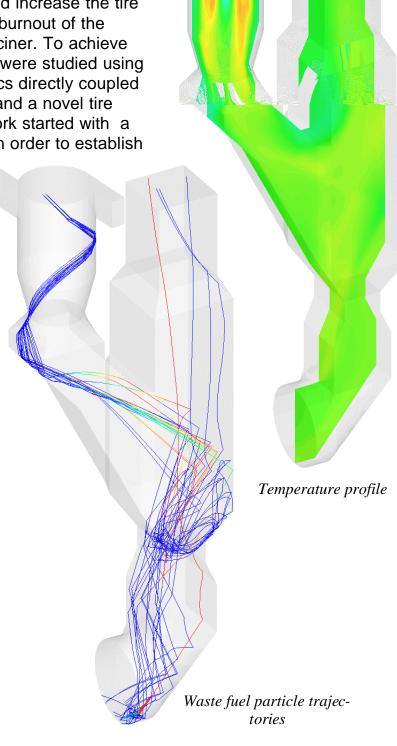
## Reduction of Tyre Chips Build-up in a Polysius Combustion Cyclone Calciner

A detailed thermo-chemical analysis of the plant has been undertaken in order to reduce tire-chip related build-up and increase the tire substitution with increased burnout of the tyre-chips within the precalciner. To achieve this, a number of variables were studied using computational fluid dynamics directly coupled with the calcination model and a novel tire combustion model. The work started with a data collection campaign, in order to establish the operating conditions

for the modeling work.

A number of computer simulations have been performed in order to provide solution to the above-mentioned problems and also to draw a comprehensive picture of the behaviour of the precalciner. The recommendations will be implemented during the next plant outage.



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