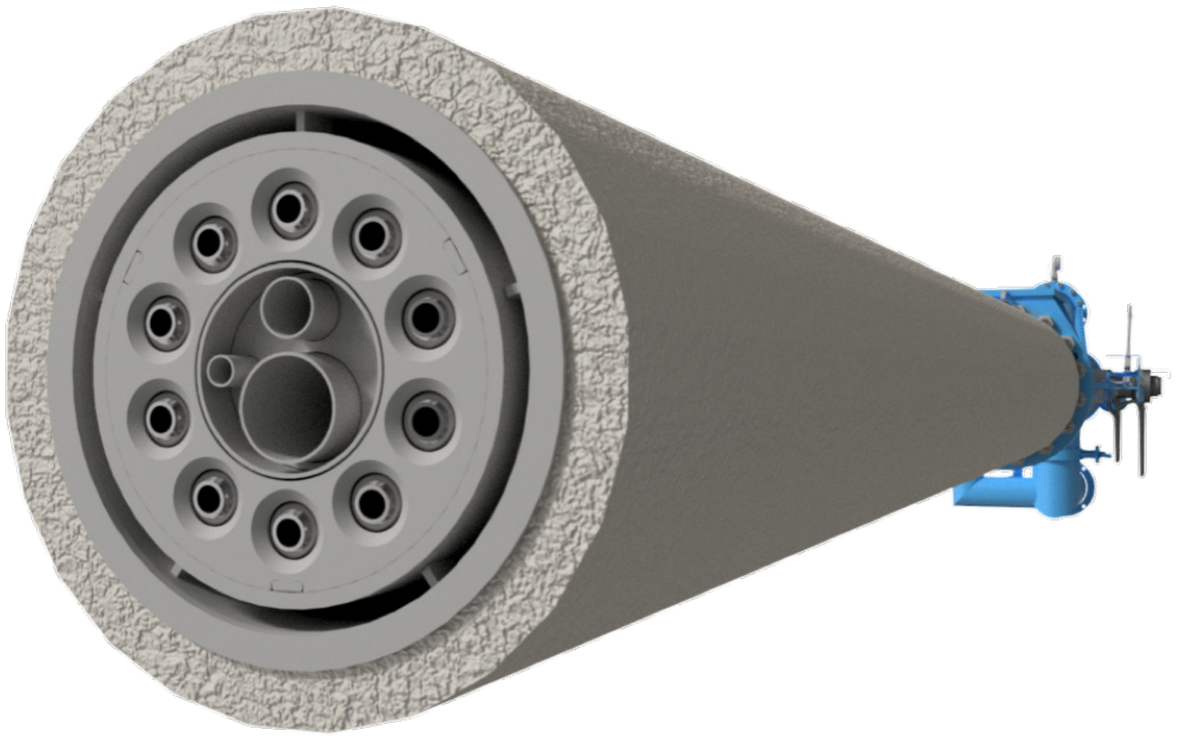
Fuel

Substitution

thyssenkrupp

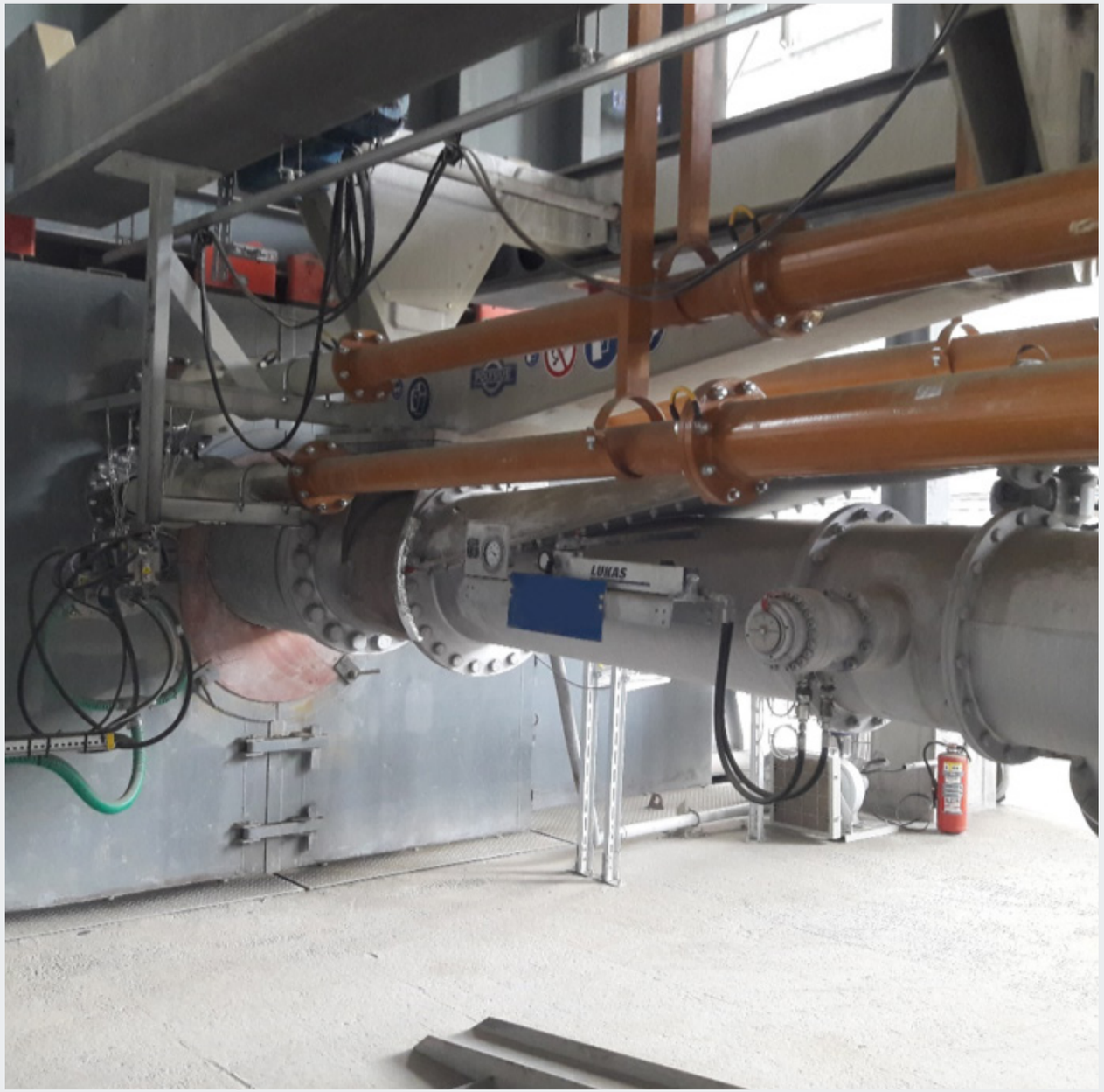
- AF consulting and delivering optimal solution for your individual case
- Holistic solution from one source: Waste-to-Energy chain
- Saved product quality and emission limits

polysius® fuel substitution solution for incinerating up to 100 % alternative fuels



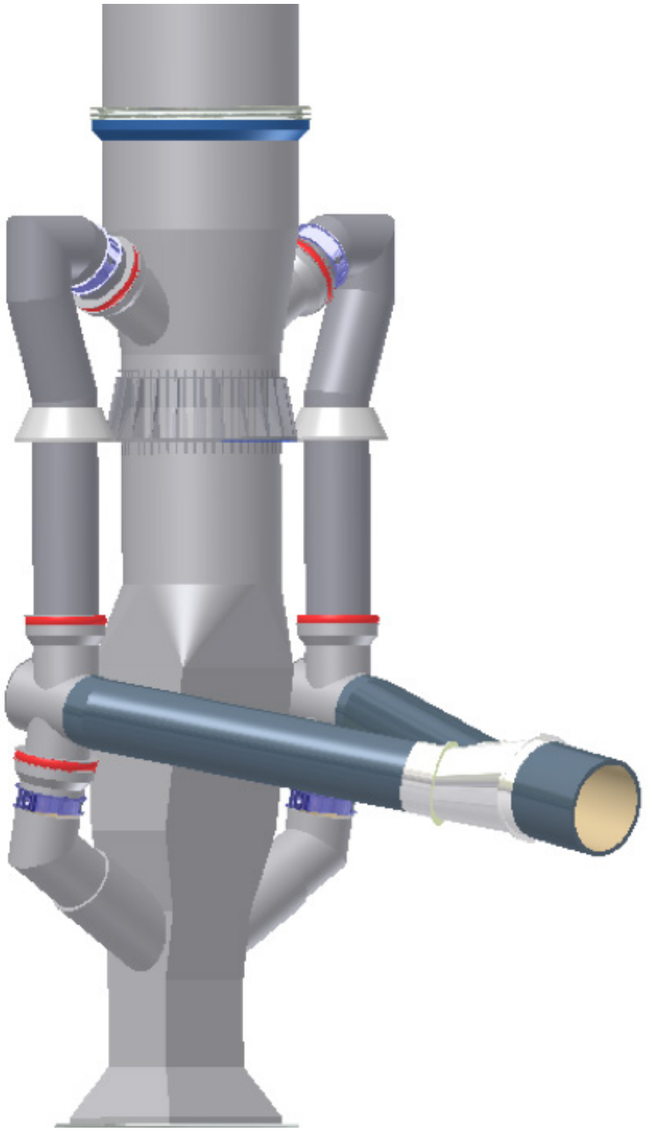
- Optimal incineration of difficult pulverized fuels due to outer fuel channel
- Excellent mixing of fuel, primary and secondary air due to adjustable nozzles
- Easy flame shaping by means of adjustable nozzles
- Perfect synergy between polflame® VN and satellite tubes to burn high amounts of AF
- RDF channel

polflame® VN sintering zone burner



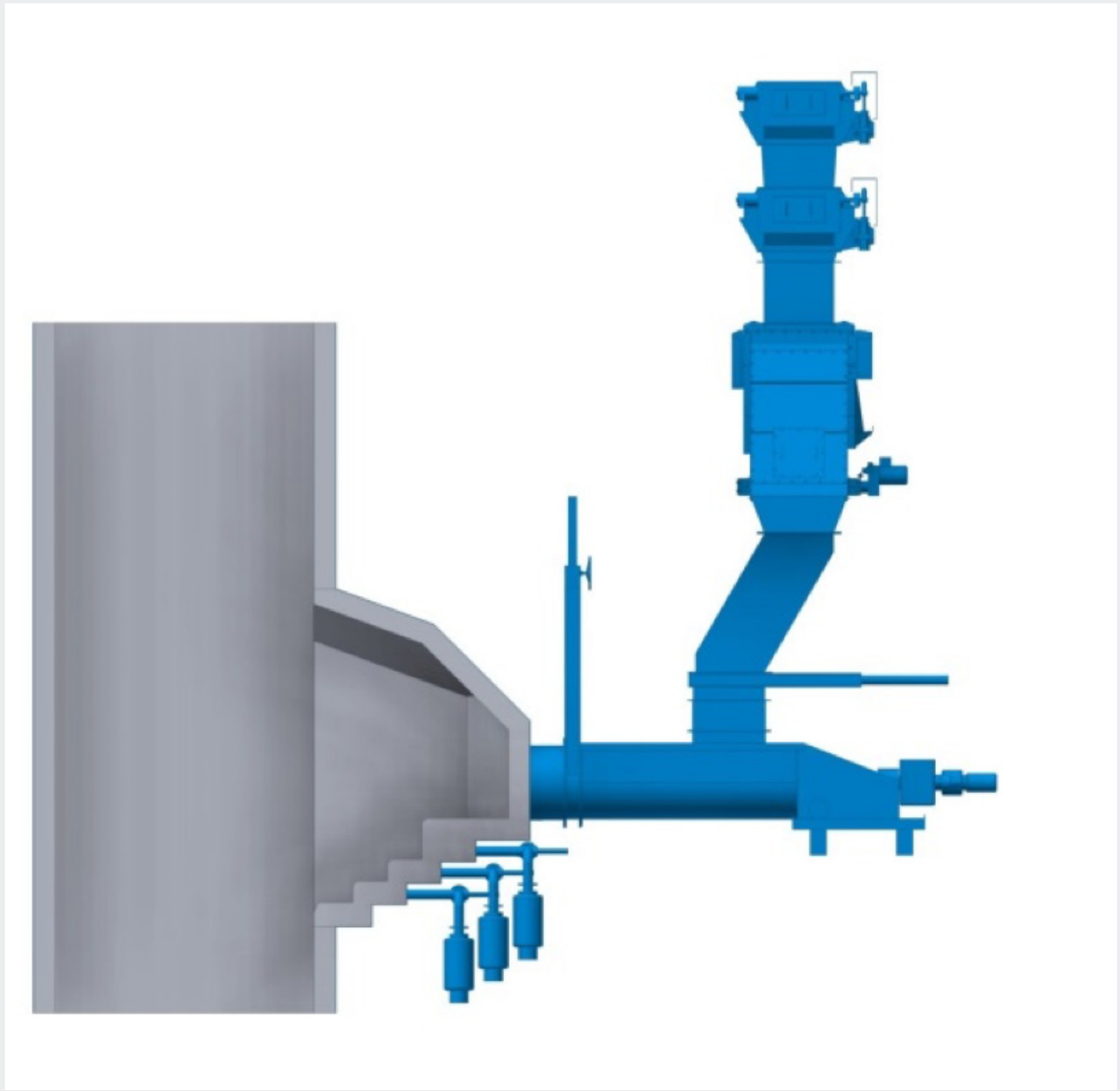
- Simple to implement for retrofitting at any kiln hood
- No modifications at burner needed
- Flame length and direction adjustable
- Low CAPEX and easy maintenance

Satellite tubes for incinerating up to 100 % alternative fuels at your kiln



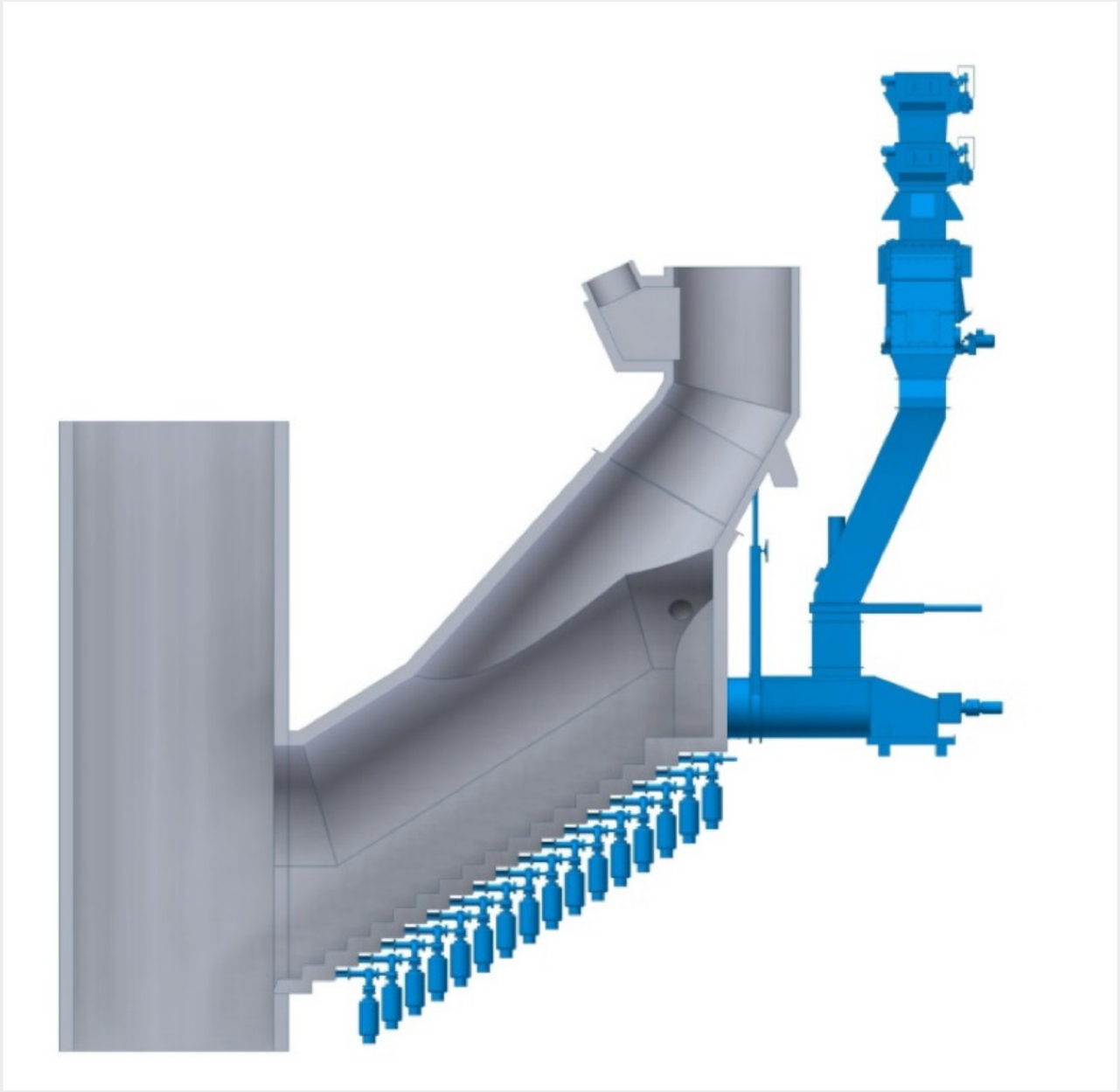
- Perfect mixing of tertiary air and kiln off gas due to bilateral calciner inflow
- Flexible oxygen and temperature adjustment in De-NOx zone
- Full burnout of low quality fuels with lowest CO and THC emissions

prepol® calciner optimized for high alternative fuel rates and low emissions



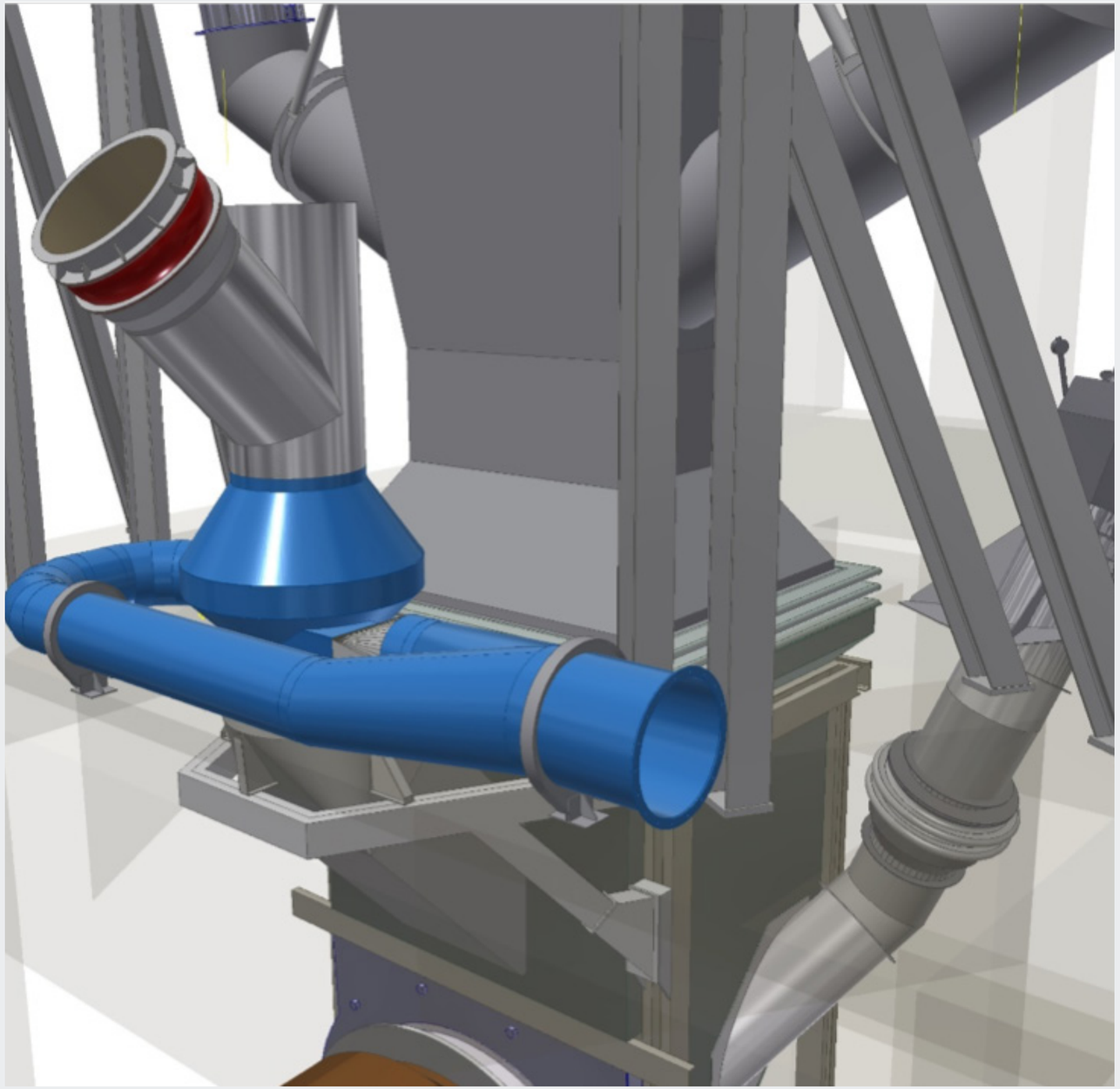
- Efficient way to increase residence time for coarse AF up to 150 mm with lowest investment
- Easy to implement technology
- Calciner not necessarily needed

prepol® SC-S integrated drying of wet alternative fuels inside the calciner loop



- Full incineration of very coarse and wet AF up to 300 mm
- Significant savings in fuel preparation and flexible sourcing of AF
- Simple system without moving parts in hot zone resulting in high reliability and low maintenance costs

prepol® SC for incinerating ultra-coarse, wet waste and biomass



- CFD optimized design resulting in lowest dust concentration in the extracted bypass gas
- Very low heat losses
- High chlorine concentrations in bypass dust
- Low amount of bypass dust to be deposited

Chlorine bypass application for high alternative fuel rates