



ADVANCED CONTROLS, SIMULATION AND EMISSIONS

CLEAN ENERGY TECHNOLOGIES

SIMULATION AND DESIGN



The CANMET Energy Technology Centre (CETC-Ottawa) is a centre of excellence for the simulation and design of combustion and energy systems.

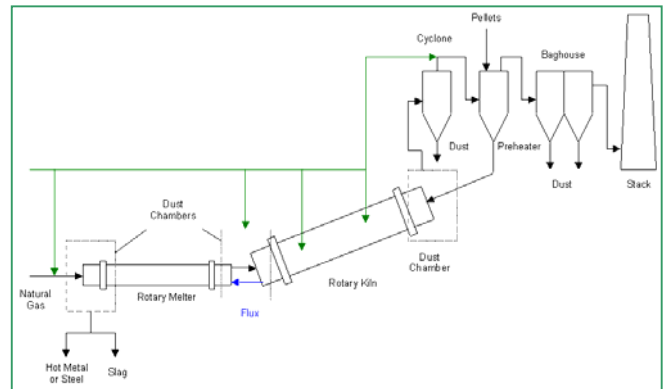
Projects focus on:

- Analysis of novel energy cycles
- Development of heat and mass balance flowsheets
- Optimization of energy efficiency
- Reduced emissions
- Process design development
- Control strategy development

Capabilities And Services

The Advanced Controls group at CETC-Ottawa consists of scientists and engineers with expertise in:

- HYSYS simulation
- Aspen simulation
- Boiler and furnace modeling
- Process analysis
- Combustion and heat transfer analysis
- Process optimization
- Identification of technical opportunities and economic impact
- Consultation and third party evaluation



Direct Reduced Iron (DRI) Process – novel iron making technology

Existing Generic Models

CETC-Ottawa has existing models for each of the following:

- Lower furnace model
 - Sliced plug flow furnace model for analysis of boiler furnace sections and other industrial furnaces
 - Available as a HYSYS extension
 - Can be used with oxy-fuel as well as air-fired applications
- Upper furnace boiler model
 - Model for reheater, superheater and economizer sections within a boiler
 - Available as a HYSYS extension
 - Can be used with oxy-fuel as well as air-fired applications

