



C E T C CANMET ENERGY TECHNOLOGY CENTRE

FLUIDIZED BED COMBUSTION/ GASIFICATION

CLEAN ENERGY TECHNOLOGIES

MODELLING, SIMULATION AND OPTIMIZATION

The CANMET Energy Technology Centre-Ottawa (CETC-Ottawa) has strong expertise in modelling, process simulation and optimization. We are dedicated to providing services with high professionalism to satisfy the needs of our clients and partners.

Our scope of services include (but is not limited to):

- Process development and scale-up
- Rigorous mass and energy balances
- Reliable estimation of capital investment and operational costs
- Evaluation of new processes
- Analysis/modification of existing processes
- Process integration
- Sensitivity analyses for determination of key variables for process control

The above activities have been a crucial part in our work for:

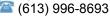
- Feasibility studies
- Proposal evaluation/selection
- Consultancy assistance

We use Aspen Plus mainly for process simulation and Aspen Icarus for equipment sizing and economic evaluation. Our commitment to first-class support for our clients in both the private and public sectors is backed by the extensive knowledge and long-term experience of a dedicated team.

The attached diagram, pertaining to zeroemission processes, is an illustration of our work (published in Fuel, 83(2004) 1341-1348).

Your Invitation to Work with Us

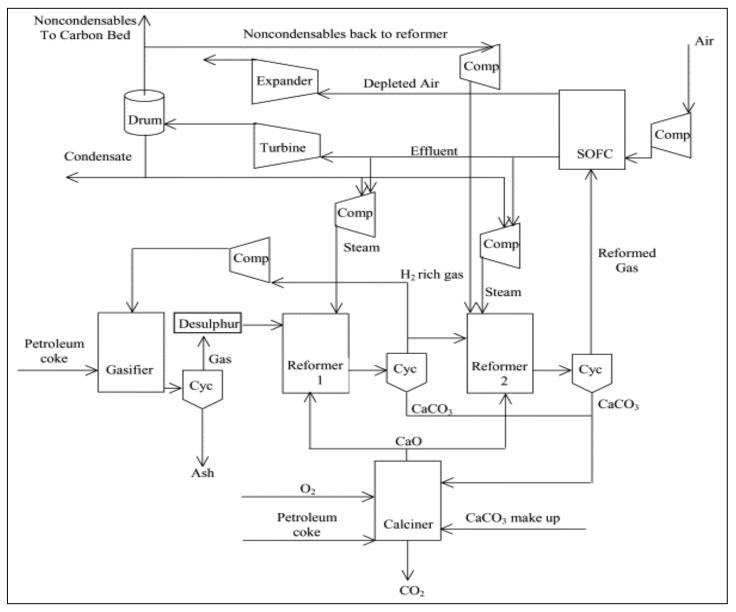
We are interested in collaborating with you. Please contact the Business Office to discuss your particular needs.



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A modified zero-emission process for power generation, based on gasification of petroleum coke (also applicable to high-carbon coals), which enables firing low-cost, high-sulphur petroleum coke and capturing CO₂ and sulphur with high energy efficiency

For Further Information Please Contact:

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