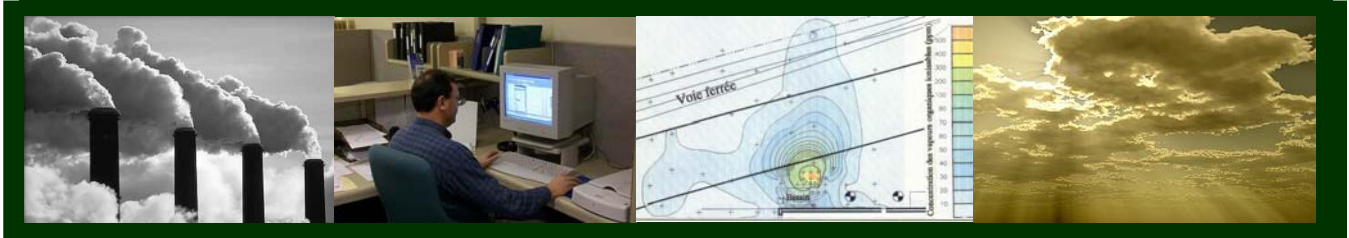


AIR MODELING



Typical Activities

- Air dispersion modeling of particular or gaseous contaminants, using level I or II models according to the recommendation of the *Guide de la modélisation de la dispersion atmosphérique* (Air Dispersion Modeling Guide) of the ministère du Développement durable, de l'Environnement et des Parcs (MDDEP).
- Assessment of the concentrations at the point of impacts and development of isocontour maps within residential areas and sensible receptors (hospital, school, residences, etc.) in the vicinity of the emission sources.
- Numerical simulation of air contaminant dispersion towards the optimization of chimney emission parameters (discharge velocities, emission rates, chimney height, etc.) during the design phase of a plant.

Examples of Relevant Projects ^{*1}

- Undertaking of a level II air dispersion modeling towards the issuance by the MDDEP of an operation permit for a metal recycling plant in the Bécancour industrial park.
- Management of the environmental aspects of the design project of diesel-fuelled electrical generator blocks of a mining site in northern Quebec. Parameters optimized using air dispersion modeling results included the location of the generator blocks, the height of the required chimneys, the gas discharge velocities and the emission rates for the various air pollutants.

***1** *References from clients and specific project descriptions available upon request.*



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