

## **PROJECT DESCRIPTION**

### **Concentrated Non Condensable Gas (CNCG) System CASCADES EAST-ANGUS East Angus, QC**

#### PROJECT SCOPE

The project consisted in collection, transport and incineration of concentrated NCG of the pulp mill, to comply with Total Reduced (TRS) regulation in Canada.

Mesar / Environair was mandated to provide engineering and supply of the new NCG system at the Cascades mill of East Angus, QC.

At East-Angus mill, the CNCG Sources to be collected were :

- blow heat recovery secondary condenser vent
- batch digester relief vents
- evaporator seal tank vent



The CNCG sources were then collected and safely transported via a steam ejector, and sent to a dedicated Regenerative Thermal Oxidizer (RTO) for incineration.

Other key equipment like relief valve, flame arrester and rupture disk were supplied to insure a safe system design.

#### RESULTS

The system was installed in December 1996 as scheduled. Performance trials in winter 1997 showed that the CNCG system and RTO consistently operate, and the mill is then in compliance with provincial regulation with an up-time higher than 99%.

Since the start-up, both CNCG system and RTO run flawlessly, and the fuel saving due to RTO largely justify the extra cost compared to a Thermal Oxidizer.