MRC Pontiac: Energy-From-Waste (EFW) Information Session

Historical Background

A study for waste management was carried out in 2007 for the Outaouais to evaluate various technologies, including landfill, incineration, cogeneration, pyrolysis, plasma, gasification, tri-methanization and tri-composting. Three conclusions were made and are still valid today:

- Landfill is the short-term solution.
- No technology can be chosen until partners are selected.
- Diffusion of basic information about the various technologies and regional challenges is essential.

This presentation is therefore intended for sharing information on a technology. We want to answer questions regarding Energy-from-Waste and are pleased to present key findings from our initial business case.

Our Priority

The MRC Pontiac intends to prioritize composting and recycling within all of our 18 municipalities in order to reduce what is currently being shipped to the Lachute landfill. Once we prevent, minimize, reduce and reuse to a maximum, we need a solution to manage our residual waste. One technology the MRC Pontiac is looking at is combustion.

The MRC Pontiac will work with the residents of the Pontiac and with the Ministry of Environment to ensure that all voices are heard and that a safe technology is chosen. We will not move forward unless our proposed solution, whatever that may be, is healthy for everyone and acceptable to the general public.

For the study, an amount of 400 000 tons of waste was looked at, however this number will depend on the total amount of waste we would obtain by interested partners and could in fact be much less. We would like to reiterate that no decisions have been made and no project or technology have been decided on.

Highlights from the EFW Initial Business Case (by Deloitte and Ramboll, world-leading experts)

Three waste treatment technologies were analyzed: Pyrolysis, Gasification and Mass Combustion

Preferred of the 3 Methods – **Mass combustion (EFW)**

- Why? Most robust, reliable, cost efficient, most widely used in the world, proven track record.
- What about Carbon? Recommended post-combustion carbon capture technology, most mature proven technology.
- Construction Cost? $550M for incinerator for 400 000 tons of waste & $750M includes carbon capture (no municipal cost, i.e. no cost to municipalities for construction).
- Cost to Municipalities? Only user disposal fees, as per landfill. Currently $1.7M for 5,300 tons of waste to Lachute.
- Best Deal structure? Design/Finance/Build/Operate/Maintain (DFBOM) : 25% private, 75% public (provincial and federal government funding).

The Pontiac EFW proposal is an economically viable and carbon neutral as compared to the Landfill option.

Next step: The MRC Pontiac and its key stakeholders should engage in carrying out a detailed business case, involving different levels of government.

Benefits

- Cost of combustion is comparable with landfill.
- Short distance to facility, user fees will therefore be substantially reduced.
- 50 permanent jobs.
- 800 temporary jobs for 36 months for construction.
- Lifespan of facility = 30 years, then renovation for additional 30 years.
- Power generation to Hydro-Québec grid: 45MW of electricity and steam 24h/7d.
- Sources of revenue for partners:
  - User disposal/tipping fees.
  - Sale of recycled ferrous and non-ferrous metals.
  - Electricity purchased by HQ per kW/hr.

What about the Ash? The inert ash can be used to create concrete for infrastructure projects. The small percentage that is toxic can be solidified. No ash will be spread on to our agricultural fields.

What about Emissions? It is important to invest the most amount of money in a technology that is proven, clean and safe. It will need to meet strict Air Emission Quality levels set out by the Ministry of Environment and monitored by a 3rd party.

The MRC Pontiac thanks you for attending this information session.

Warden Jane Toller and Mayor Corey Spence, on behalf of the MRC Pontiac