Renewable Energy Management & Services Company (REMASCO)

Environmental Screening Process
Studies Presentation and Public
Consultation

(ESP Public Meeting - August 22, 2011)



OVERVIEW

- REMASCO designed, constructed and has successfully operated its proprietary gasification technology over the past 3yrs. The REMASCO system incorporates state-of-the-art air pollution control.
- Throughout this time, REMASCO was permitted as a pilot facility to demonstrate that its technology is capable of reliable and economic operation while meeting all applicable environmental performance standards set by the MOE.



OVERVIEW

• In Jan 2011, REMASCO formally announced its intentions to seek full approval under the MOE's Environmental Screening Process (ESP) in accordance with Ontario's Environmental Assessment Act. This public meeting forms a part of REMASCO's public consultation process as mandated by the ESP approvals process.





OVERVIEW

The pelletizing of municipal waste is not new but has not traditionally been very successful.

So, What's Different Now?

- Source Separation (recycling) efforts have improved and expanded to include organics and kitchen waste, traditionally problematic streams due to high moisture and odour.
- The technology now exists to better identify, classify and sort each piece
 of waste material in real time. This not only includes ferrous and nonferrous metals but also different types of plastics and materials of varying
 densities (batteries and electronic waste traditionally being particularly
 troublesome).



OVERVIEW

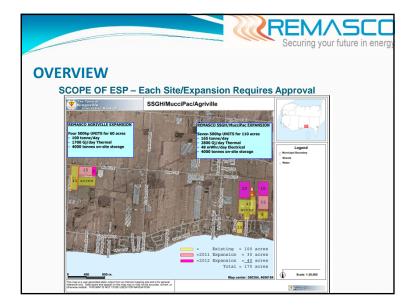
Waste Derived Fuel Pellets (cont'd)

- Europe and recently the US have legislation to permit and promote the
 use of highly processed, homogeneous waste materials as renewable fuels.
 Such qualified, waste derived fuels are allowed to be used in appropriately
 designed boiler systems and/or used to co-fire with other fuels such as
 coal (ie: in cement kilns and coal fired utility boilers).
- Waste Management Inc. (WMI), the largest waste management company in the US and Canada is presently commissioning the first of up to 30 large waste pelletizing facilities it is proposing to construct over the next 5 years.



OVERVIEW

 Unlike other greenhouse operations in Ontario, all of which are exempt from meeting any emission standards, use of the Enerpax fuel pellet requires that REMASCO seek and obtain a permit from the Ontario Ministry of Environment for each REMASCO installation. Even after approval, REMASCO will be required to undertake annual emissions testing and be subject to continuing oversight and reporting requirements from the MOE.





PUBLIC CONSULTATION

- This public meeting forms part of REMASCO's extensive public consultation process, an integral part of the MOE Environmental Screening Process (ESP).
- After having undertaken all of the appropriate environmental impact studies, including a comprehensive, peer reviewed Cumulative Effects & Process Upset Air Quality Report and Human Health Risk Assessment, REMASCO is seeking any additional input from you, public agencies and other stakeholders to confirm if any unanswered questions or unaddressed issues remain.
- Your input is important.



- Since its inception 4yrs ago, REMASCO has been open and transparent while verifying and testing its technology. Throughout that period REMASCO has:
 - Provided regular updates to Kingsville and Leamington Councils. These updates included both, our successes and failures.
 - Hosted REMASCO plant tours for Kingsville Council and many other municipal and provincial representatives.
 - Established and maintained the REMASCO Public Liaison Committee (RPLC). Since 2007, the RPLC has met twice each year and is open to receiving additional members from the public.
 - Been featured in a several newspaper articles, trade magazines and local television news clips.



PUBLIC CONSULTATION

- More specifically as part of the ESP process, REMASCO has undertaken the following public consultation efforts.
 - Sent Notices of Commencement, invitations to a March 30th Open House and this Public Meeting to approx. 300 parties, including residents within 500m radius of the existing/proposed sites, municipal council members, County and Provincial agencies, First Nations representatives and published the same in local newspapers.
 - Conducted plant tour for Kingsville Council on March 10th.
 - · Conducted public Open House of REMASCO on March 30th.
 - Appeared on an ATV news segment May 5th.



ESP STUDIES

- The REMASCO ESP studies/assessments/considerations undertaken as part of the ESP process will be discussed in more detail later, but the major studies included:
 - Air Emissions Modeling and Dispersion Study AJ Chandler & Associates Inc.
 - Human Health Risk Assessment Intrinsik Environmental Sciences Inc.
- In addition to commissioning these studies, REMASCO provided the financial support necessary to allow the Town of Kingsville to retain their own, independent consultant to review and comment on these studies. Stantec was the consultant chosen by the Town and presented a summary of their findings to Council on August 15th.



ESP STUDIES

- Tonight's presenters/attendees include:
 - John Chandler AJ Chandler & Associates
 - Elliot Sigal / Erin McGregor Intrinsik Environmental Sciences Inc.
 - Ruwan Jayasinghe Stantec
 - Bert Mucci Southshore Greenhouses



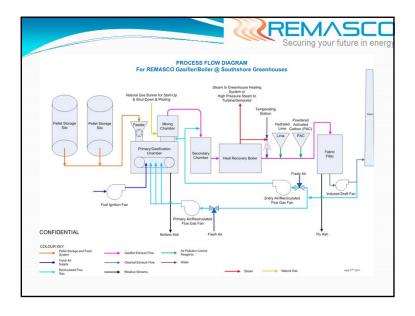
TECHNOLOGY OVERVIEW

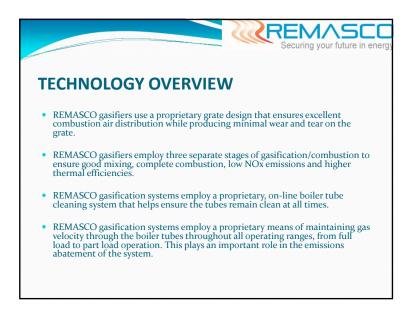
- REMASCO has designed, constructed and operated its own, proprietary gasification technology over the past 4yrs.
- Complying with Ontario's stringent emission standards is a significant accomplishment.
- Recognize that Ontario's emission standards are set more stringently than required to protect human and animal HEALTH. They are set to reflect state-of-the-art technology PERFORMANCE and are regularly reviewed and tightened to reflect improvements in technology.
- Recognize that despite Ontario's farms (including greenhouses) being EXEMPT from meeting any emission standards whatsoever, REMASCO systems have been and will continue to be subjected to regular testing and continual MOE oversight.

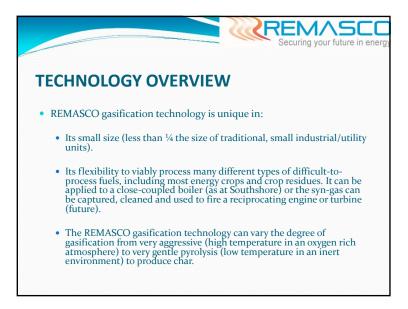














OUTSTANDING TECHNICAL UNCERTAINTIES

NONE

- Operationally, the REMASCO units have performed very well. They have reliably produced rated output for more than 10 continuous weeks without requiring a shutdown.
- Economically, the units have performed according to the REMASCO business model (although natural gas is presently slightly cheaper).
- Environmentally, the units and air pollution control systems have demonstrated their ability to meet all of the very stringent MOE compliance criteria.



REMASCO TRANSPARENCY COMMITMENT

- Since 2007, REMASCO has maintained the RPLC and kept the Kingsville Council current on both REMASCO's progress AND difficulties.
- The owners & operators of REMASCO are local residents and business owners who need to uphold and protect their good and valuable reputations.
- Unlike any other greenhouse energy producers, the MOE permanently oversees all REMASCO facilities and requires regular emissions testing to ensure facilities & equipment are properly operated and maintained.



REMASCO ENVIRONMENTAL PERFORMANCE

- REMASCO has invested more than \$6.5M and 4yrs developing and proving its technology. More than \$400K has been spent on independent, environmental testing alone.
- All environmental testing has been conducted by an independent, third party.
- All environmental testing procedures and methodologies were approved by the Ministry of Environment and witnessed by MOE personnel.
- The modeling of the air emissions from REMASCO used actual test data collected and supplied by AMEC Earth and Environmental, the testing company, not REMASCO. This test data formed the basis for the Air Modeling Study and Human Health Risk Assessment.