



Dongara Residual Waste Pelletization Facility

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October 8, 2008

Dongara Facility



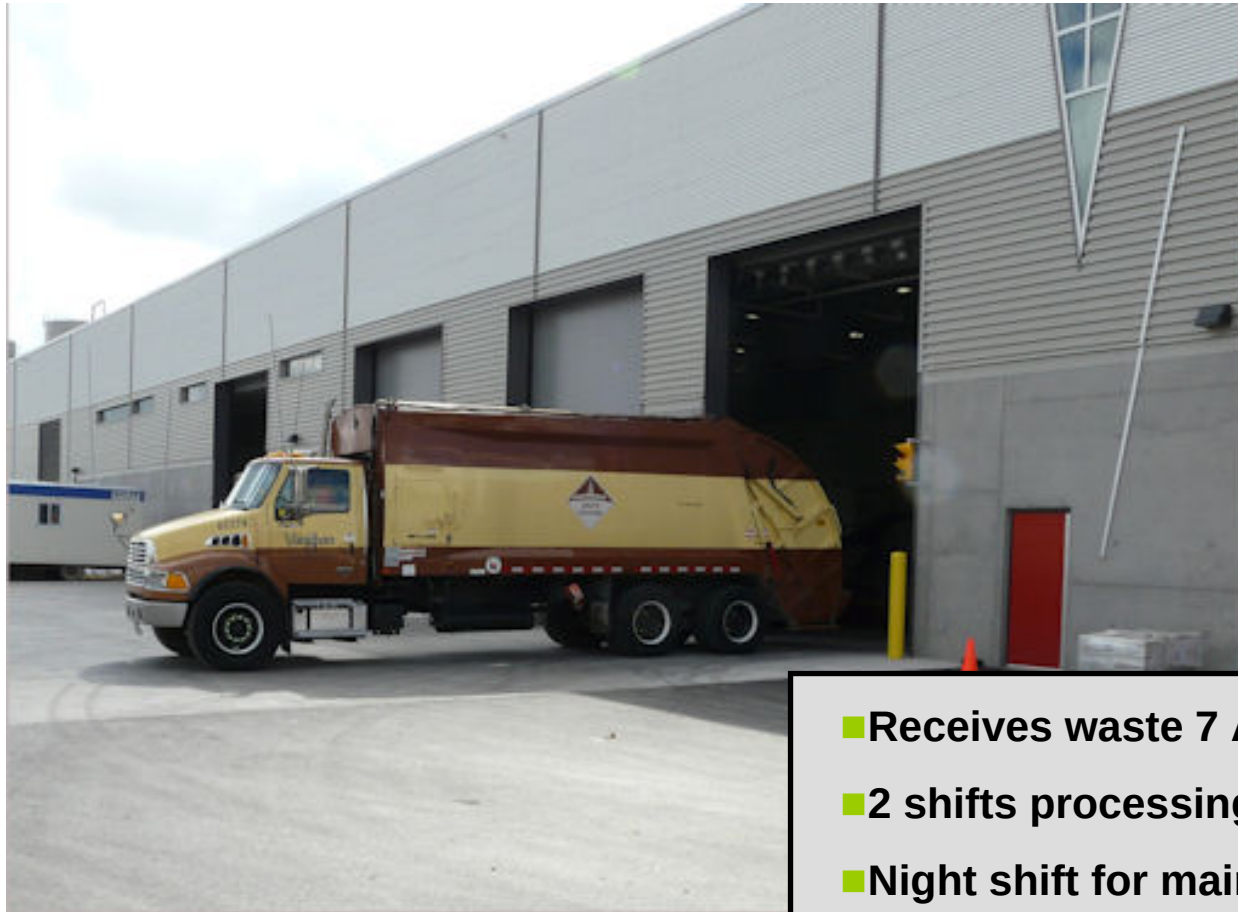
**Landscaping and
External Work
completed Sep. 2008**

Office and Reception Area



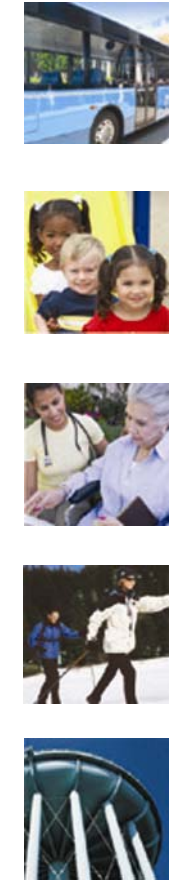
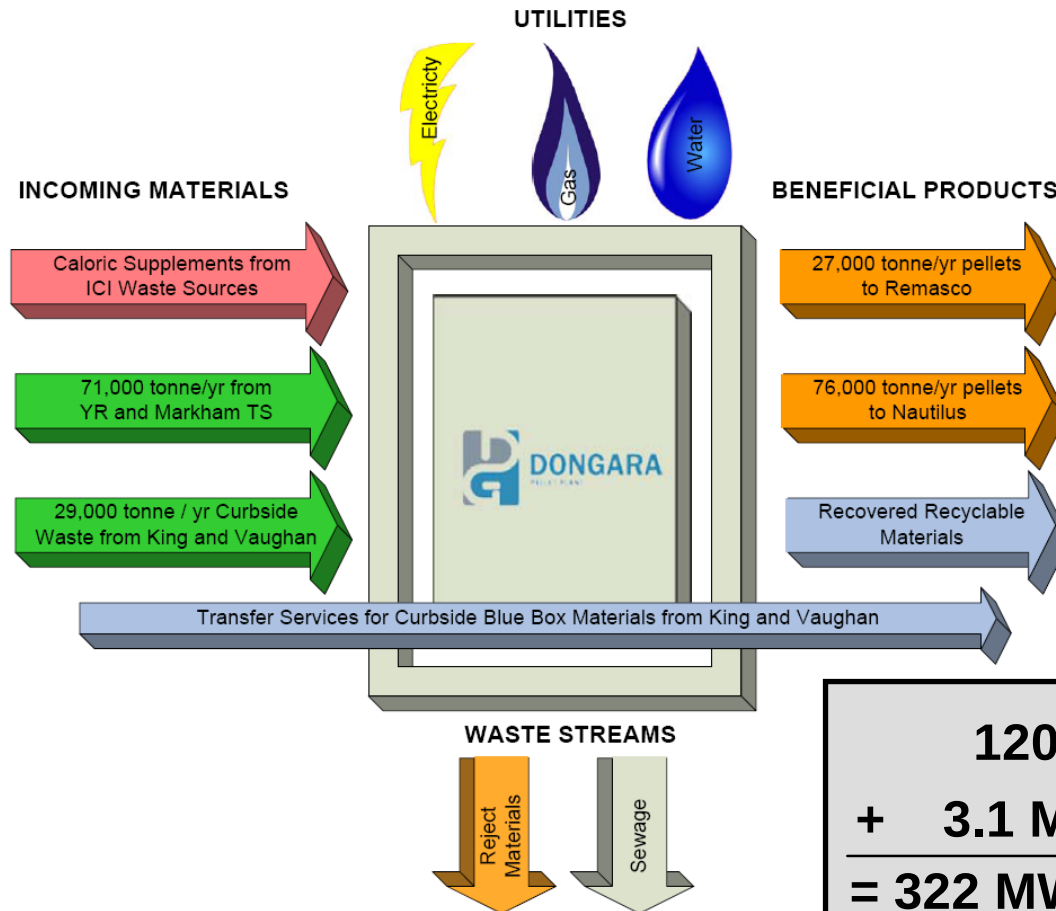
- 1,060 m² of office area
- 7,250 m² of plant area;
- Employees 38 staff

Waste Receiving Area



- Receives waste 7 AM to 7 PM
- 2 shifts processing
- Night shift for maintenance

Process Review



Contribution to York's Diversion



- ❑ WDO currently does not recognize pelletization as waste diversion
- ❑ Pellet process:
 - ❑ Supports York's goal of 65 % diversion from landfill by 2010
 - ❑ Does not support MOE goal of 60 % diversion by 2010
- ❑ York expected 2009 diversion rate
 - ❑ 87 % diversion from landfill
 - ❑ 59 % diversion by WDO formula

Non-acceptable materials



- ❑ Oversized brush
- ❑ Appliances
- ❑ Oversized lumber
- ❑ Tires
- ❑ Consumer electronics
- ❑ Hazardous waste
- ❑ Construction & demolition waste
- ❑ Radioactive materials
- ❑ Propane & freon cylinders

**Dongara working with York
Region to control
unacceptable materials in
waste stream**

Contract Details



- ❑ Started Phase-in Period - July 2, 2008
- ❑ Fully Operational at 1920 tonnes/week - Oct. 9, 2008
- ❑ 2009 tonnage -100,000 tonne / year
 - ❑ 77 % of York's Residual Waste
 - ❑ Vaughan curbside collection → 431 tonnes/week
 - ❑ King curbside collection → 123 tonnes/week
 - ❑ Bales and Markham transfer → 1364 tonnes/week
- ❑ Additional separation of recyclables
- ❑ Future carbon credit sharing with York

Approvals and Timing Issues



- ❑ Dongara C of A - Aug. 29, 2006
- ❑ Remasco (Leamington) Air and Waste Storage C of A – One year pilot - Sept. 24, 2008
- ❑ Nautilus US Energy exemption

Start-up Issue: Weigh Scale



**Scale Calibration Work Completed
in August 2008**

On-site Scales now Operational

Start-up Issue: Bag Breaker Redesign

**Bag Breaker knives re-designed to
improve efficiency**
Completed September 2008



Start-up Issue: Silo Reconstruction



**Damaged Rings removed from
Silo – Replacements on order
Silo loss does not affect operation**

Start-up Issue: Improve Metal Separation



**Magnetic roller heads increase
metal capture from 85 % to 98 %**

Installed September 2008

Start-up Issue: New Pellet Dies



**New dies produce pellet to custom
size required by customers**

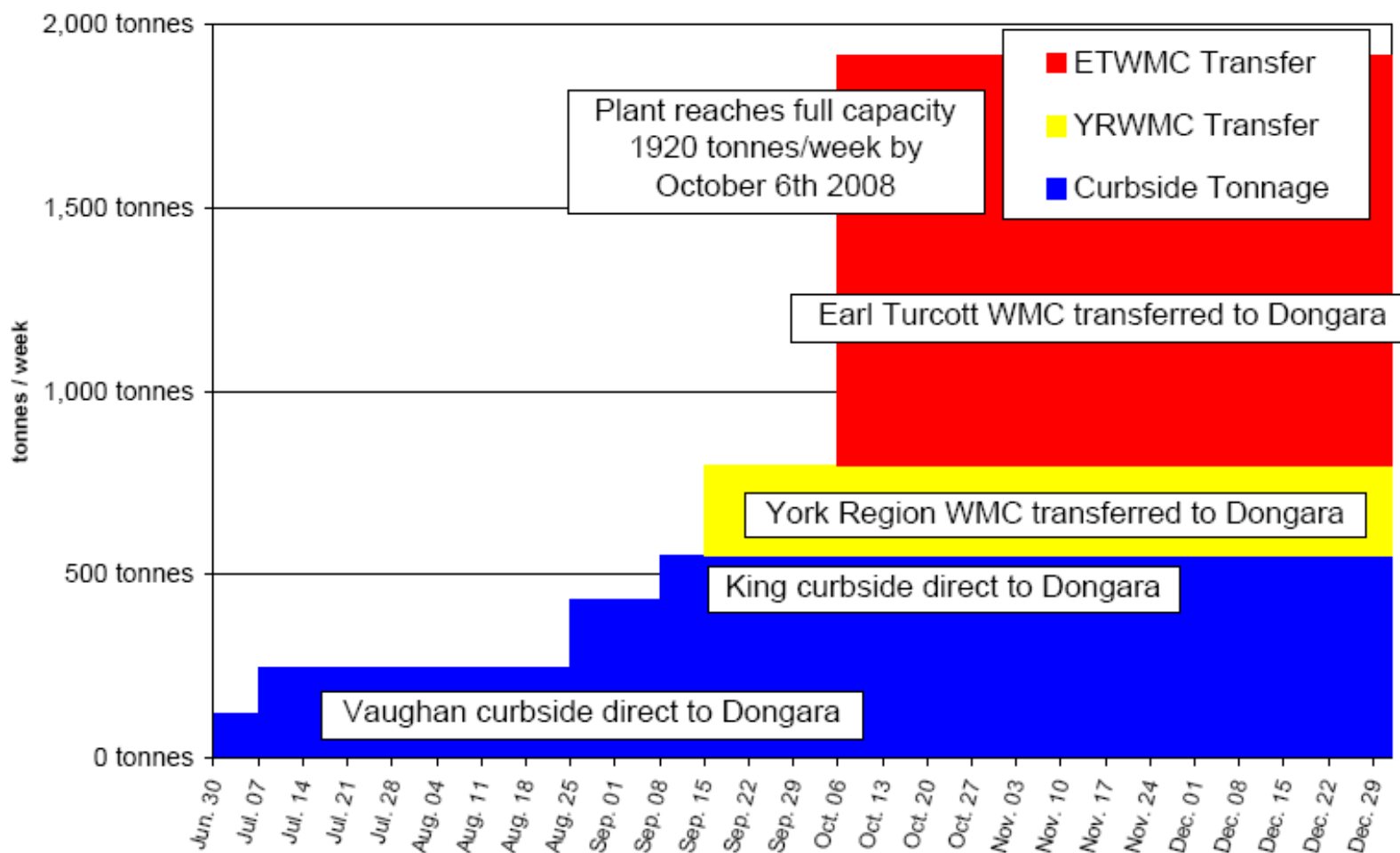
Installed October 8 and 9, 2008

Dongara Fuel Pellets



**Pellet heat energy
12,000 MWH/tonne**

Dongara Phase-in Schedule



Remasco Contract Details



- ❑ Firm Contract for 20 year term
- ❑ 2009 shipments -27,000 tonnes
 - ❑ 3 two-stage gassifier units use 25 tonnes/day
 - ❑ 4,000 tonnes on-site storage in Leamington
 - ❑ Additional 13,000 tonne of centralized storage
 - ❑ Seasonally generated energy for greenhouses
- ❑ Fuel pellets will replace natural gas; bunker C oil and natural gas
- ❑ Future carbon credit sharing with York
- ❑ One year pilot C of A – full C of A in 2009

Nautilus Contract Details



- ❑ Firm Contract for 20 year term
- ❑ 7 % Co-owner of Dongara Pellet plant L.P.
- ❑ 2009 shipments -76,000 tonnes
 - ❑ Used in EFW co-incineration plants
 - ❑ Ongoing discussion with new markets
- ❑ Fuel pellets will replace coal; natural gas; bunker C oil and natural gas fuels
- ❑ Current receivers already have approvals

Dongara Now Operational



- ❑ Phase-in period completed Oct. 8th
- ❑ Ready to receive 100,000 tonnes/year MSW from York
- ❑ Fuel pellets sold only to permitted and regulated users
 - ❑ Sales contracts meet requirements of Dongara's obligations to York

