



MINUTES
Automated Vacuum Collection (AVAC) Feasibility
Working Group
March 31, 2014
Council Chamber

Committee Members

Regional Councillor Joe Li (Chair)
Deputy Mayor Jack Heath
Councillor Alan Ho

Staff

Andy Taylor, Chief Administrator Officer
Rino Mostacci, Director of Planning and Urban Design
Paul Ingham, Director, Operations
Peter Loukes, Director Environmental Services
Claudia Marsales, Senior Manager of Waste & Environmental Management
Geoff Day, Senior Planner Zoning & Special Projects
Alida Tari, Council/Committee Coordinator

The Automated Vacuum Collection (AVAC) Feasibility Working Group meeting convened at 1:06 p.m. with Regional Councillor Joe Li in the Chair.

1. Review Terms of Reference and Deliverables and General Discussion

There was discussion regarding the importance of establishing an influential vision that will guide the City of Markham on developing guiding principles relative to pneumatic waste collection. It was suggested that staff report back with a proposed vision at the next meeting.

The working group discussed the following with respect to pneumatic waste collection:

- will this advance waste conversion
- the importance of ensuring that the current standards set out by City of Markham continue
- can pneumatic waste collection be used in public spaces
- must be clear of expectations of the private sector and how will they recover their capital costs if pneumatic waste collection is considered
- should Markham Centre be considered as one of the study areas

Staff advised that there are three aspects to consider with respect to pneumatic waste collection:

- Collection - is it an efficient way of collecting garbage
- Urban Experience - ability to collect garbage without having to drive large waste disposal trucks through urban areas
- Cogeneration - can the waste be harvested into energy

2. PRESENTATION FROM ENVAC - QUEBEC PROJECTS

Sean Monclus, Envac Systems Canada delivered a PowerPoint presentation regarding their waste vacuum collection system.

There was brief discussion regarding approximate price to install the system.

????, Marketing Director delivered a PowerPoint presentation outlining the value of the Envac System to Ontario builders.

The working group requested that a soft copy of the presentation be forwarded to them.

3. QUESTIONS AND ANSWERS

Staff inquired whether smart/swipe cards can be used with the Envac system and if that information can be used to invoice. It was noted that smart cards are used to track weight, but not to invoice.

The working group inquired whether district energy is combined with the installation of the Envac systems. It was noted that in Norway they have installed district energy pipes along side the Envac system.

How does the Envac system deal with bulk items? Those items will have to be dealt with separately.

4. NEXT MEETING

The next Automated Vacuum Collection (AVAC) Feasibility Working Group Meeting will be scheduled for late April 2014.

ADJOURNMENT

The Automated Vacuum Collection (AVAC) Feasibility Working Group meeting adjourned at 3:20 p.m.



MINUTES
Automated Vacuum Collection (AVAC) Feasibility
Working Group
May 9, 2014
York Room

Committee Members

Regional Councillor Joe Li (Chair)
Deputy Mayor Jack Heath
Councillor Alan Ho

Staff

Peter Loukes, Director Environmental Services
Claudia Marsales, Senior Manager of Waste &
Environmental Management
Rino Mostacci, Director of Planning and Urban
Design
Don Taylor, Manager of Executive Operations
Alida Tari, Council/Committee Coordinator

The Automated Vacuum Collection (AVAC) Feasibility Working Group meeting convened at 1:08 p.m. with Regional Councillor Joe Li in the Chair.

**1. MINUTES OF THE AUTOMATED VACUUM COLLECTION (AVAC)
FEASIBILITY WORKING GROUP - MARCH 31, 2014**

Moved by Deputy Mayor Jack Heath
Seconded by Councillor Alan Ho

That the March 31, 2014 Automated Vacuum Collection (AVAC) Feasibility Working Group meeting minutes be approved.

Carried

2. STAFF PRESENTATION & DISCUSSION

There was discussion regarding potential locations within Markham Centre that might benefit from a pneumatic waste collection system. It was agreed that additional potential locations be accessed for suitability.

Staff delivered a PowerPoint presentation outlining the vision for pneumatic waste collection, guiding principles and proposed date to present to General Committee.

The following was discussed:

- Markham District Energy Inc. (MDEI) to be included in future meetings and discussions as a key stakeholder
- The importance of demonstrating results in a reasonable time
- Who pays/owns the system (private or municipal or other models)
- Scalability - having the ability to expand the system in future if necessary
- Committee to continue to meet throughout summer to develop feasibility analysis

Recommendations to be brought to General Committee June 16, 2014:

- That the AVAC Working Group develop a feasibility analysis with input from all key stakeholders to determine the system costs, benefits, funding and ownership options.
- That a new Capital Project be established for a feasibility analysis to a maximum of \$50,000 that can be funded by Development Charges.

3. PRESENTATION BY RENEWASTE ON THE METRO TAIFUN - AUTOMATIC SOLID WASTE COLLECTION SYSTEM

Kerry LeBreton, Renewaste showed two videos providing a general overview of their AVAC system from Finland and provided a comparison of the different available technologies in use around the world.

4. NEXT MEETING

It was suggested that the next meeting be scheduled in July to permit staff the opportunity to consider a test site and develop some Terms of Reference.

ADJOURNMENT

The Automated Vacuum Collection (AVAC) Feasibility Working Group meeting adjourned at 3:16 p.m.