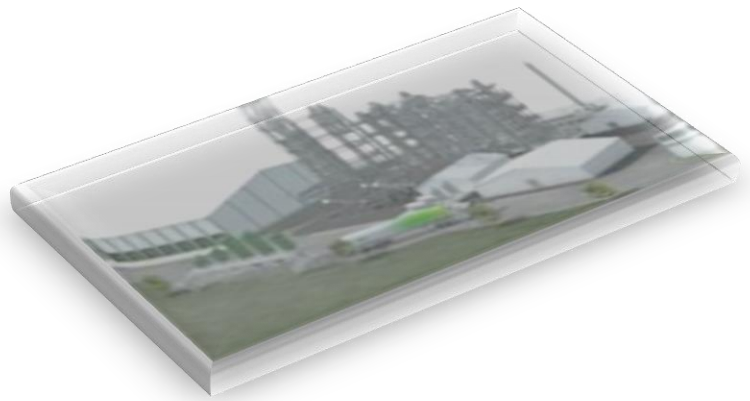


SAEWA

Year End Report

2023 - 2024

EfW - creating a clean solution to landfilling waste for a sustainable future.



Chairman's Look Ahead...

Another year has passed and as the new Chairman of SAEWA I find myself struggling to fill the shoes of the outstanding individuals that have preceded me. I salute the hard work and commitment by all that has carried us so far and ever closer to our goal, an environmentally responsible and sustainable alternative to landfilling. Even more laudable is the progress made when we do not represent or have the resources of a large urban like Calgary and Edmonton but represent rurals and small urbans with the additional challenges that this entails. Thanks to the Member Communities and their representatives that have stayed the course even as they found how challenging the task undertaken was proving to be and the time and resources that it would take. Thanks to the past and present Board Members and Executive that have contributed so much time and effort to this project, which when completed will be a template for all of Alberta and beyond.

Work continues on the initial MOU with HZI and while it has been eagerly anticipated and is hoped to be completed shortly once its finalized significant tasks and challenges will remain, including:

- Work will begin on a detailed agreement with HZI.
- SAEWA will now have the details to take back to Member Communities and to other waste generators to seek their waste commitments.
- SAEWA will be in a position to pursue the higher-level government funding needed to continue to move forward.

This coming year holds great promise and great challenges. As we move forward towards the culmination of the many years' cooperative efforts take pride in your participation and support of a project that will make a real difference.

Sincerely,



Ray Juska, SAEWA Chair



Our Mission And Vision

The Southern Alberta Energy from Waste Association (SAEWA) is a coalition of waste management jurisdictions with an interest in implementing technologies to recover energy from residual waste and reduce long-term reliance on landfill disposal. With membership of 50 plus municipalities, encompassing four (4) waste authorities and waste commissions, SAEWA represents a significant portion of the population of Southern Alberta outside of the 3 large urban municipalities.

Steering Committee Report

This past year the Steering Committee has been working diligently with our Engineers of Record (HDR) to secure a Memorandum of Understanding (MOU) with HZI.

There has been exchanges of many documents required to get to a Draft MOU and as of this week we finally have the first Draft and am anticipating the financial breakdown in the near future.

We hope to have both documents ready for Board consideration in mid-January and will be taking direction, from the Board, on next steps.

It has been a long road to get to this point and we look forward a very positive outcome.

Paul Ryan

Chairman Steering Committee/Vice Chair SAEWA

2023 Overview and 2024 Look Ahead - SAEWA dealt with a great deal of highs and lows as they selected an investment partner after a lengthy expression of interest process that was at the mercy of many corporate scheduling delays. The entire process took over 1.5 years to complete and after a rigorous scoring and interview screening process did result in the selection of a preferred candidate, as Hitachi Zosen INOVA (HZI). SAEWA unfortunately was then faced with further delays due to lack of financial support from the Alberta Government discovering SAEWA was not awarded the Alberta Community Partnership Fund that was applied to early 2023. The hopes of all were to move forward with the Initial Memorandum of Understanding process with the preferred candidate, without extraneous delay. Having to go out to members to find the financial support did end up moving timelines from the ambitious six (6) month schedule to one (1) year while also experiencing a four (4) month delay from May – August 2023 going out to our members to gain support in securing alternative funding support. It has been very fortunate to have received that from Newell County and the City of Brooks as they have rallied behind the project in partnership and made a combined commitment to fund the \$200,000 required budget to complete the MOU process.

Of late the Alberta Government and Premier have been very forthcoming in meeting with several of SAEWA member representatives and in those meetings verbalized support of the project concept however have been quick to advise that does not come with financial support which has always been one of the biggest hurdles in keeping the project momentum on track for SAEWA. The Board and member representatives continue as they always have to relentlessly bang on Alberta ministerial doors to connect the mysteries of the government support with something more tangible as is what is really needed to keep the project development moving forward at a desirable pace. – It has been a monumental challenge to move a game changing project of this magnitude forward through a non-profit entity relying solely on grant funding to complete over \$3.2 million dollars in feasibility and engineering work, one that has relied on everyone's patience and perseverance. With the finalization of the Initial MOU most feel that it will finally gain the investment of our Canadian governments, certainly some of the potential funder programs SAEWA has engaged with have voiced this as their opinion and asked SAEWA to come back when an MOU has been established with HZI.

In focusing on moving the dial closer to development of the facility at the Newell County landfill site there has been a formal discussion with the landowner Newell Regional Solid Waste Management Authority and we are now waiting for them to come back to us so we can determine what a land lease looks like foundational to the development of the facility. SAEWA is also clearing the path for progress by establishing a Waste Technology Committee who will be tasked with confirming the waste quantity commitments with our members to be designated as confirmed feedstock for the facility (350,000 – 400,000 tonnes are optimal) which is the position that HZI, our development partner wants SAEWA to take leadership on.

Within SAEWA sights is the next chapter of business and it is understood that signing a land lease agreement and forming open ended agreements to secure the waste volumes with members is the next order of business, also keeping in mind SAEWA will need to prepare to find investment for the non-profit society to transition to a corporate business model before the end of 2024 to establish an in-depth Memorandum of Understanding and Joint Venture.

SAEWA asks members, when sharing updates on the project to refer to the Talking Points of reference:

1. SAEWA was formally established as a non-profit society in 2013, recognizing that the organization evolved from 2009 from a group of champions from the Vulcan region to what we know as SAEWA.
2. SAEWA's mission is to develop a 300,000 plus tonne facility to treat member waste as an alternative to landfilling.
3. To date SAEWA has been successful in applying for \$3.2 million dollars in funding to complete the following work:
 - Feasibility and Project Development Planning
 - Communication Plan
 - Governance Model
 - Transportation Study
 - Seasonal Waste Analysis Study Report of Member waste
 - The Pembina Institute 3rd party Lifecycle Analysis reporting that the project will reduce 7 million tonnes over a 35-year lifecycle for the waste-to-energy facility.
 - Initial Business Plan and Executive Summary
 - Detailed Business Plan and Financials
 - Siting EOI, screening and analysis study and report
 - Siting selection process
 - Economic and Environmental Analysis
 - Expression of Interest for Energy-from-Waste Investor / Developer
4. The priority as a next order of business once the Initial MOU is completed with HZI will include engaging members in development of a memorandum of understanding for waste commitments with an off-ramp, development of a site lease agreement, noting that dialogue is currently being established as SAEWA has asked the Board representatives to begin the important conversation with their municipalities.
5. SAEWA as part of their goals to move forward from the Initial Memorandum of Understanding will be working towards transitioning the non-profit entity to a corporate business model which is necessary to the next stages of business.

Closing Notes

Creating a better future for Alberta Is not easy. A testament of the SAEWA Board.

This journey has been met with frustration for taking as long as it has. Those at the table with their sleeves rolled up over the years – the true champions of this project would all agree the level of collaboration SAEWA has received in moving forward this development has been profound. The reality is that moving the engineering and planning ahead for this project has been costly and near impossible through a non-profit model so your patience in the process is well deserved.

We are within days of signing an Initial MOU with Hitachi Zosen INOVA (HZI) and just two (2) years ago that was not even an option on the table. As we are nearing a time of counting our blessings let us count that.

There is still a great deal of work involved in moving the development forward in 2024, and it was always understood the closer the goal line the more energy it will take to win.

This facility will provide a sustainable solution to landfilling, it will generate clean energy and it will be a legacy project we can all be proud of.

Thank you again to our members and our partners for your support.

A Safe and Happy Holiday is wished for all!

LEARN MORE ABOUT WASTE-to-ENERGY Facilities Here...



5150 Riverbend Drive, Burnaby

Waste-to-Energy Facility

Facility Description

Metro Vancouver's Waste-to-Energy Facility has operated in Burnaby since 1988 and handles about 250,000 tonnes of garbage per year – roughly a quarter of the region's garbage. It is a mass-burn facility that turns waste into electricity (enough to power 16,000 homes) and recovers approximately 6,500 tonnes of ferrous and 500 tonnes of non-ferrous metal annually.

The waste-to-energy process is monitored 24 hours a day, seven days a week, 365 days a year from a control room located on site. Facility emissions data and compliance reports are available on Metro Vancouver's website in real time. The range of emissions monitored, includes common air contaminants such as nitrogen oxides (NOx) and particulate matter (PM), as well as acid gases, trace metals, trace organics, and dioxins / furans.

The facility receives waste from an average of 80 mechanically unloading trucks per day that empty their loads into a large garbage bunker.

- Site Area:** 1.8 hectares (4.4 acres)
- Building Area:** 70 m x 70 m = 4,900 m²
- Annual number of customers:** 24,678
- Direct Haul:** 123,683 tonnes
- Transfer:** 120,679 tonnes
- Total Processed:** 244,362 tonnes





Did you know...

In 2019 the DYEC:

- Diverted 140,000 tonnes of waste from landfill to energy recovery
- Generated enough electricity to power the equivalent of 10,000 homes for one year
- Recovered and recycled the equivalent of 36 million aluminum cans and 3,000 cars worth of steel

