

# BUSINESS PLAN

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Legal name: VO<sub>s</sub>PS Inc.

Trading name: Privately owned

Business address: 602-300 Waterfront Drive,  
Winnipeg MB R3B 0G5

Phone: (204) 793-5805 Fax: none

E-mail: [ron.giercke@vosps.co](mailto:ron.giercke@vosps.co)

## Description of the Business

Value Optimized <sup>sustainable</sup> Planet Solutions inc. *pronounced "VOPS" (VO<sub>s</sub>PS)* is a value optimized Sustainable Planet Solutions consultant and the global supplier of UTOC systems <https://www.vosps.co/utoc-presentation/>. It develops, builds, and sells the UTOC (Ultimate Thermal Organics Converter) advanced energy from waste system. The transformative UTOC was developed to simultaneously address global waste, sustainable energy, carbon footprint, greenhouse gas, and clean water challenges; **collectively climate change and potable water**. It is simply a gas burner that uses high intensity radiant energy to produce its own gas as required for desired energy output.

VO<sub>s</sub>PS, the UTOC technology IP owner:

- performs ongoing Research & Development as required to maintain proven UTOC waste recycling preeminence in the global Energy-From-Waste market;
- develops UTOC project concepts and summaries for prospects;
- designs, manufactures and sells complete UTOC systems in North and South America;
- provides UTOC system general arrangement drawings and performance specifications to Technology Use Agreement distributors' designers / manufacturers for Africa, Asia, Europe, and Middle East;
- designs, manufactures, programmes, delivers, and installs UTOC automation systems into Technology Use Agreement distributor's projects;
- supervises start up and commissioning of all UTOC systems, warrants promoted / contracted performance, and trains owner's personnel in the operation thereof;
- coordinates integration of UTOC systems into projects with local and international sales agents / complementary technology suppliers / project contractors, and;
- provides fee-for-service remote monitoring and Operating & Maintenance support for the life (30 years) of each UTOC system.

The self sustaining, unprecedented low emissions, **universal organics (biomass and manufactured)** feedstock UTOC is a next generation contributor to a healthy planet. A clean energy source, the UTOC operates solely on waste and residual organic feedstocks (garbage, hazardous materials / liquids, food processing wastes, diseased biomass, and like). **No fossil fuel or supplemental thermal energy inputs of any kind are required after start up.**

The UTOC is a simple, quiescent, high temperature, modulating 2 stage process. Stage 1 radiant energy vaporizes organic materials wherein the majority of vapors are burned to maintain optimal temperatures for feedstocks being processed. Remaining vapours are completely burned at 1,350°C in stage 2, destroying pathogens, tars, furans, dioxins, and like. The UTOC high temperature process can be used for waste liquid (raw sewage, landfill leachate, pesticides / herbicides, solvents, paints, and like) disposal; electric power generation; potable water distillation, and; the complete range of district, industrial, commercial, and residential heating requirements. Depending on laboratory analyses, organic free (mineral and metal) UTOC ash can be applied as an agricultural land nutrient or used as asphalt / concrete block and brick aggregate.

Quiet, ultra low emissions UTOC Energy From Waste electric power generation plants are unobtrusive. Distributed electric power generating sites within tens of kilometers instead of one or two large generating stations hundreds of

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kilometers away significantly reduce garbage haul distances and electric power distribution infrastructure while increasing electric power reliability.

UTOC CO<sub>2</sub> equivalent emissions when processing Municipal Solid Waste received from collection vehicles are less than 50% landfill emissions. In addition to replacing landfills by directly recycling planet organic waste into clean, low particulate 1,335°C gas streams, the UTOC can process existing landfill organic contents; reallocating such sites for agricultural / commercial / green space / recreational purposes.

The UTOC was developed for compliance with current and pending international environmental regulations and Canadian Food Inspection Agency requirements. The rugged, simplistic UTOC is automated for unattended operation and fail safe shut down in less than 30 minutes of problem detection.

Manitoba Conservation and the Canadian Food Inspection Agency (CFIA) have been involved from the outset. UTOC high conversion efficiency / ultra low emissions have been verified by the University of Manitoba, BOMA Environmental, the Canadian Food Inspection Agency, and Dillon Consulting Limited tests. A September, 2017 Palmerston North New Zealand meeting with Professors from Massey University's Chemistry and Industrial Automation departments validated the UTOC as a scientifically sound, unprecedented, easily controllable technology.

VOsPS Inc., incorporated in the province of Manitoba August 21, 2017, is the global supplier of UTOC systems. Its network includes:

- UTOC inventor / developer / designer: Ron Giercke, 99.5% shareholder and CEO of VOsPS
- VOsPS business / sales / contracts management: Jim Smolik, Business Coordinator
- Marketing and Business Development: Jeremy Vallance, Osoba Aire (Canada)
- UTOC Technology & Automation Lead and UTOC representative for USA: Steven Mosbrucker, San Jose California
- VOsPS Business Mentor and UTOC representative for Europe: Julian Rimmer, London England
- Municipal Projects Advisor and Portage la Prairie Affairs Consultant: Brian Bowes, Portage La Prairie, Manitoba, Canada
- \*UTOC system components manufacturer: Sperling Industries <https://www.sperlingind.com/>
- \*UTOC refractory and insulation designs / installations: MZ Contracting Ltd. <http://mzcontracting.ca/>
- Control system components supplier: Schneider Electric <https://www.se.com/ca/en/>
- UTOC systems distributor for Africa/Asia/Europe/Middle East: Giant Green Leaf <https://giantgreenleaf.com/>
- Complementary sewage treatment technology: Baleen <http://www.baleen.com/>
- Lawyer: Pitblado LLP
- Accountant: CBZ CHARTERED PROFESSIONAL ACCOUNTANTS INC.
- Bank: RBC

\*For North and South America UTOC systems

Successors / support personnel have been identified for all VOsPS positions (tradespersons thru UTOC technology specialists to executive) and are available as required to address rapid UTOC sales growth.



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## Major demographic, economic, social and cultural Factors

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### Demographic

VO<sub>s</sub>PS' sustainable, quiet, unobtrusive UTOC systems benefit all demographics from infants to elderly by completely recycling **ALL** planet organic wastes (solid, slurry, liquid, and gaseous forms) and associated / contained pathogens into a clean, ultra low particulate, ultra low NO<sub>x</sub>, 1,335°C gas stream that can be used for electric power generation / water purification / heating applications. UTOC demographic benefits include:

- **climate change mitigation addressing the major concern of millennials and post millennials** <https://www.cnn.com/2019/09/20/us/greta-thunberg-profile-weir/index.html> .
- recycling **ALL** planet organic (**biomass and manufactured**) wastes, including sewage plant sludges / solids and plastics / textiles, directly into clean, ultra low emissions 1,335°C gas streams.
- **coupling with Baleen Mechanical Sewage Treatment option having 90% savings over conventional biological plants**; to eliminate large site / large carbon footprint / high energy input requirements, sludge production, and odours associated with conventional biological plants.

### Economic

UTOC is a transformative, self sustaining mitigator of climate change, disease, and global energy shortages for less cost than conventional alternatives.

Approximate 5 year simple payback UTOC Energy From Waste plants with steam turbine driven electric power generators produce ~960 kW / tonne of recycled Municipal Solid Waste.

Third party tests and 22% higher operating temperatures show VO<sub>s</sub>PS' UTOC systems to be more efficient than incinerators at less than 80% their CAPEX and Operating & Maintenance costs. UTOC project cost reduction results from rugged UTOC simplicity. The UTOC system requires no ventilated, temperature controlled weather enclosures and (per 3<sup>rd</sup> party testing) no emissions control requirements when recycling organic wastes into clean energy. High temperature components can operate outdoors under all planet climatic extremes.

Unprecedented UTOC universal organic feedstocks capabilities in combination with Baleen Filters (VO<sub>s</sub>PS' affiliate) facilitate major global cost savings in meeting current and evolving environmental targets with a **transformative change in how population wastes are recycled in a sustainable manner**.

A Baleen filter system <http://www.baleen.com/> with chemical pre-treatment removes 85%-95% total suspended solids, 30%-60% total oxygen demand, 40%-70% biological oxygen demand, **80%-95%** phosphorous, and 80%-90% Fats / Oils / Greases (FOG) from raw sewage flows, **minimizing the requirement for conventional biological treatment processes** (eliminating associated sludge production) except if / as required for nitrogen removal. Baleen screenings can be processed in a UTOC along with community Municipal Solid Wastes. Filtered water leaving Baleen screens can be disinfected by ozone / ultra violet light to reduce remaining organics and destroy 99.9% of pathogens before discharging a benign water stream back into the environment. Simple, self sustaining, coupled UTOC-Baleen plants can recycle **all** (solid / slurry / liquid / vapour-gaseous states) community organic wastes into a high temperature (1,335°C) clean gas stream (a steam turbine electric power generation energy source) for any population from smallest village thru largest cities (New York, Mexico City, Dhaka, and like); **eliminating odorous biological sewage treatment and associated sludge production / handling / dewatering / disposal**.

Major financial benefits will be realized by all levels of Canadian governments / businesses / residents as Manitoba's VO<sub>s</sub>PS Inc. is the sole supplier of preeminent UTOC technology to the world market.

VO<sub>s</sub>PS 5 year \$1.6 billion total sales estimate represents **12,000 person years of new, high quality, Manitoba UTOC industry jobs PLUS new jobs for building / supplying those persons' infrastructure / services** (housing, groceries, and like) **and new hospitality industry jobs**.

**Rugged, simple, UTOC-Baleen Energy From Waste plants can now accomplish sustainable populations without waste at much less cost than traditional options.**

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## Social

*In addition to benefits in preceding “Demographic” section, society has an immediate, simple, sustainable green planet option that costs less; is more efficient, and; has lower total emissions than any other Energy From Waste recycling option, including incinerators.*

**UTOC recycling eliminates major disruptions and large implementation / administration costs associated with attempts to reengineer society by banning plastics and retraining 8 billion people in sanitary food and medical products / procedures** (food born sickness and pathogens control) **when plastic containment / protection products are no longer available. UTOC directly recycles plastics** (including films / bags / drinking straws / end-of-life wind turbine blades / old boat hulls / and like) **into clean energy, eliminating significant costs and carbon footprints associated with the large parasitic materials management / transportation / processing energy and cost requirements of conventional recycling methods.**

**UTOC systems completely destroy and recycle plastics**, diseased deadstock / vegetation, biomass residue, medical / hazardous wastes, diseased / undesirable genetically modified organics, off spec / contaminated product, and like **into clean energy**. Complete UTOC thermal destruction of manure, sewage sludges, and associated pathogens disrupts disease cycles and prevents random, uncontrolled in-species and cross-species antibiotic accumulations in the environment that impose undesired “low dose” medication on food chain participants; unduly accelerating diminishment of antibiotic effectiveness.

UTOC applications are virtually unlimited, ranging from livestock operations / agri food (e.g. Cargill, fisheries, and like) / Hutterite colonies / hospitals / industries through communities / small towns / isolated & remote settlements to largest cities (e.g. Dhaka, Toronto, New York, Beijing, and Mexico).

## Cultural

UTOC project benefits summarized in the 3 preceding sections eliminate many of today’s plastics / climate change / clean planet / healthy living challenges.

VO<sub>s</sub>PS solutions provide unprecedented opportunities for progressive indigenous employment from unskilled youth in remote communities through to industrial plant / energy corporation managers (“U\_SUSTAINABLE REMOTE COMMUNITY-R9” attachment).

## Major Players

There is ***no competition to the simple, unprecedented UTOC*** that **recycles any planet organic waste directly into a clean hot gas stream** in less than 3 seconds; only much more complex ***alternative*** Energy From Waste technologies like in the following web sites. None produce a 1,335°C output gas stream held for 2 seconds (at homogeneous 1,000°C equivalent) before any heat extraction.

Incinerators: The UTOC redefines the 3T incinerator combustion paradigm (Time / Temperature / Turbulence). UTOC’s quiescent combustion process requires only 2Ts; Time and Temperature <https://www.thecmmgroup.com/three-tscombustion-matter-pollution-control/>. Unprecedented UTOC second stage 1,350°C flameless combustion allows less than 1% O<sub>2</sub> in stack gasses, well below ~6% O<sub>2</sub> from incinerators. UTOC NO<sub>x</sub> emissions are ~10% incinerator NO<sub>x</sub> emissions (see Fig. 7 in attached “Gupta Article with graph”).

Anaerobic Digestion for Methane Production: [http://www.biogas-renewable-energy.info/anaerobic\\_digestion\\_diagram.html](http://www.biogas-renewable-energy.info/anaerobic_digestion_diagram.html), **PLUS** significant costs and carbon footprints associated with the **large parasitic materials management / transportation / processing energy and output fuels management / burning**.

Pyrolysis: <https://www.engineeringa2z.com/pyrolysis-basic-principles-types-and-uses/>, **PLUS** significant costs and carbon footprints associated with the **large parasitic materials management / transportation and output fuels management / burning**.

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## Nature of the Industry

All people on the planet produce waste with standards of living generally proportional to energy availability. VO<sub>s</sub>PS' UTOC is the most direct, lowest Greenhouse Gas emissions, smallest carbon footprint method of recycling planet waste into clean, sustainable energy. **Unprecedented capabilities** in previous clauses make UTOC systems the preferred planet organic waste disposal solution. Coupled UTOC-Baleen systems now make it possible to process all community organic waste, completely treat community sewage, and produce electricity in achieving sustainable populations without landfill or sewage sludge disposal requirements, UTOC systems are well suited for retrofitting existing Energy From Waste plants.

UTOC systems can recycle mined landfill organics; reallocating existing landfill sites for agricultural / commercial / green space / recreational purposes.

## Trends in the Industry

The timely **UTOC optimally addresses climate change** by providing the most efficient, smallest carbon footprint method of directly recycling any planet organic waste into clean sustainable energy; all with zero carbon monoxide, zero methane, and unprecedented low NO<sub>x</sub> emissions.

The Manitoba Government's Made-in-Manitoba Climate and Green Plan

[http://www.gov.mb.ca/asset\\_library/en/climatechange/climategreenplandiscussionpaper.pdf](http://www.gov.mb.ca/asset_library/en/climatechange/climategreenplandiscussionpaper.pdf) reflects global trends in its clauses:

"We know our climate is changing. The science is clear and conclusive. Climate change is real and is accelerating at an alarming rate. It is a serious threat to the well-being of Manitoba's economy, ecosystems, and communities. But there is hope.

In March of this year, a public consultation was held encouraging Manitobans to tell us what their vision is for a cleaner, greener Manitoba. The result is the Made-in Manitoba Climate and Green Plan -- a bold new vision that builds upon our early, strategic investments in clean hydroelectricity.

Manitoba is proposing this climate and green plan framework for more of your consideration and input. We want to hear from you. This is your opportunity to help shape the prosperous, green Manitoba of the future.

Our vision is to make Manitoba Canada's cleanest, greenest, and most climate resilient province. It is a vision based on the strong foundations already put in place by Manitobans. It is a vision we can achieve with this strategic framework we are proposing to Manitobans.

The Manitoba government acknowledges the seriousness of this issue and what it might mean for our province. Through science and applied research, **we are committed to giving communities and key sectors the information and tools needed to help them plan and adapt in response to a changing climate.**"

UTOC simultaneously addresses The Four Pillars of the Manitoba Government initiative; Climate / Jobs / Water / Nature.

UTOC conversion of Winnipeg Municipal Solid Waste and sewage sludge into 88 MW<sub>electricity</sub> / hour would provide all power required for operating the UTOC Energy From Waste plant; West End, South End, and North End Water Pollution Control Centres; a new Winnipeg Transit garage; electrification of Winnipeg Transit, and; balance of 88MW into Manitoba Hydro grid plus showcasing "A Made-in-Manitoba Carbon Pricing Plan" as *"The federal government needs to recognize the flexibility of approaches of Canadian federalism including Manitoba's."*

The UTOC is ideal for recycling **plastics** (bags & all other forms thereof) **and textiles**, previously in demand but no longer desirable recyclables, into a clean hot gas stream. Examples include <https://www.reuters.com/article/us-chinaenvironment/china-says-it-wont-take-any-more-foreign-garbage-idUSKBN1A31JI> and <http://www.cbc.ca/news/business/clothesrecycling-marketplace-1.4493490>.

**UTOCs recycle, directly into clean energy, all waste plastics / paper / textiles (and like) in-situ, eliminating offsite transport / remanufacturing / product distribution costs, and; associated carbon footprints.**

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## Government Regulations

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Third party tests have shown UTOC emissions well below current and foreseeable North American and Ireland regulatory authority limits.

## THE MARKET

**VO<sub>s</sub>PS' UTOC market is the 8 billion world population.**

### Market Segment

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Based on an average garbage production of **0.74 kg** / person / day (ChatGPT) and 8 billion planet population, the global garbage production is 5,920,000 **tonnes** / day. The average useful life of industrial projects without major upgrades is ~30 years meaning the average annual replacement UTOC market, ignoring population growth over 30 years, would be 5,920,000 tonnes / day divided by 30 years or 197,333 tonnes / day (tpd).

Based on a 1,000 tpd 2025 Canadian UTOC Energy From Waste project cost of \$CAD260,000,000 and VO<sub>s</sub>PS' UTOC system average portion being 11.6% (20% from direct sales estimated 30% of total and 8% from TUA distributor sales estimated 70% of total), and UTOC plants being **only 5% of a 30 year** "garbage systems" replacement market, VO<sub>s</sub>PS potential 30 year levelized UTOC system sales would be  $(0.05 \times 197,333 / 1000) \times 0.116 \times \$260,000,000 =$  ~\$CAD300 million / year; ~CAD\$1.5 billion in 5 years.

The VO<sub>s</sub>PS Inc. business forecast Proforma (attached) is considered **conservative** as **no allowances are included for:**

- Disaster debris and industrial wastes recycling such as manures, offal, deadstock, culls, off-specification products, spent lubricants, spent composite wind farm turbine blades / boat hulls, damaged / reject composite automobile parts, refuse derived waste, rail ties, tires, and like.
- UTOC sales resulting from Baleen and VO<sub>s</sub>PS' contractors' / affiliates' customers that acquire UTOC technology.
- Our open VO<sub>s</sub>PS / UTOC web site launch supported by our High Bluff demonstration site upgrade from one day warm weather demonstrations to a 24/7/365 continuous operation sustainable populations without waste model.

## Products & Services

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### Product

UTOC is the most cost effective, reliable, sustainable energy option except for high temperature, self venting geothermal energy (e.g. Iceland). UTOC advantages over other Energy From Waste technologies include:

- using only feedstock energy content, UTOC recycles all planet organics (biomass and manufactured) into a clean, high temperature (1,335°C±) gas stream for electric power generation / purified potable water production / heating applications and zero organic content ash (mineral & metal feedstock fractions only)
- smallest carbon footprint of thermal organics processing options



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- quiet, ultra low emissions, distributed, inconspicuous UTOC Electric Energy From Waste plants minimize garbage haul distances and electric power infrastructure costs
- each UTOC system is industrial, hazardous, and medical waste disposal ready requiring only site specific licensing for “as produced” on-site destruction / recycling-into-clean-energy that eliminates otherwise hazardous waste storage / transportation / disposal / handling management and costs
- adaptive energy production in the event of significant global climate changes / shifts by relocating UTOC Energy From Waste plants to follow feedstock availability / migrant populations
- higher power generation reliability (proximate 95%) than hydroelectric, solar and wind facilities that depend on / are vulnerable to climatic events and weather (e.g. drought, cloud, no wind) cycles
- UTOC-Baleen Energy From Waste plants provide “*sustainable populations without waste*” **at much less cost than “equivalent total solution” conventional alternatives.**

## VO<sub>s</sub>PS:

- develops UTOC project concepts / summaries and preliminary designs for prospects;
- designs, manufactures, installs, and commissions proprietary UTOC automation systems;
- prepares and submits quotations for the UTOC automation systems portion of Technology Use Agreement distributor sales; quotations for complete UTOC systems to customers in North and South America;
- provides 3D scaled UTOC system general arrangement drawings, critical component designs, and performance specifications to Technology Use Agreement distributors for their designers' component detailing and manufacture;
- collaborates with an international network of strategic UTOC system distributors, sales agents / technology brokers / complementary technology affiliates / suppliers / installation contractors / project engineering-management consultants;
- supervises start up-commissioning-trouble shooting of UTOC systems;
- warrants UTOC system performance as promoted / contracted by VO<sub>s</sub>PS, and;
- provides random remote monitoring and Operating / Maintenance support (on a fee for service basis) for the life of UTOC systems.

## Pricing and Distribution

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When considering UTOC universal organic feedstock capabilities, 22% higher operating temperatures, ultra low emissions, and numerous competitive advantages, UTOC total project CAPEX and Operating & Maintenance costs are ~80% those of the closest Energy From Waste **alternative**; incinerators.

VO<sub>s</sub>PS manufactures and sells complete UTOC Energy From Waste systems into North and South America projects.

GGL (Giant Green Leaf) in Aberdeen Scotland is the UTOC systems distributor for Africa, Asia, Europe, and Middle East. GGL, under a **TUA** (Technology Use Agreement), manufactures (in the customer's region) and supplies all UTOC system deliverables except for automation and electrical components thereof that are manufactured, delivered, and installed on site by VO<sub>s</sub>PS.

VO<sub>s</sub>PS sells complete UTOC systems direct to customers in North and South America for approximately 20% of the total cost of a UTOC Energy From Waste project.



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VO<sub>s</sub>PS portion of total UTOC EFW project cost from TUA distributor sales is ~8%. TUA distributors source, provide, and manage the detailed design, manufacture, delivery, and installation of ~90% of UTOC system components in accordance with VO<sub>s</sub>PS' TUAs, 3D scaled general arrangement drawings, and performance specifications.

The remaining ~10% included in a TUA distributor UTOC sale is the automation system that VO<sub>s</sub>PS designs, supplies, installs, and commissions; and trains and supports operators thereof.

VO<sub>s</sub>PS warrants performance of UTOC systems, both sold directly and through its TUA distributors, as promoted / contracted.

## Market Trends

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The global demand for green planet solutions has never been greater in the areas of waste disposal, sustainable energy, and healthy environment (<https://certifiedwastesolutions.com/blog/waste-to-energy-the-potential-of-turning-trash-into-power>).

The preeminent universal organic feedstocks capable **UTOC is the optimal 8 billion planet population Energy From Waste solution.**

## Implications or Risk Factors

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### Implications

UTOC sales potential to date has resulted from prospects hearing about UTOC's unprecedented value and capabilities (see following "Competitive Advantage" section) and recent efforts of international technology brokers and project developers like GGL.

### Risk Factors

- rapid growth challenges
- business growth rate fluctuations
- UTOC order cancellations
- UTOC technology replication
- USA tariffs
- achieving aggressive sales projections
- UTOC systems performance assurance
- sustaining UTOC preeminence

## Planned Response

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### Rapid Growth Challenges

VO<sub>s</sub>PS fully understands that start up company exponential growth rates are rare. Such sales growth rates in this instance are conservative in light of UTOC being an **unprecedented**, universal waste organics recycling

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technology that **simultaneously addresses** global garbage, sustainable energy, and clean water challenges ("The Market" and "The Competition" sections). VO<sub>s</sub>PS' 8 year preparations to address rapid growth include:

- developing a business model based on UTOC system distributors performing the majority of work for their sales under a VO<sub>s</sub>PS' Technology Use Agreement
- establishing a **flat VO<sub>s</sub>PS organizational structure** <https://topresume.com/career-advice/flat-organizationalstructure-explained-structure-and-benefits> operating as described under the following "Policies & procedures" clause
- maturing a working business consisting of CEO, Business Coordinator, Business Development and Marketing coordinator, UTOC technology specialist / automation systems code developer, senior CAD designer, UTOC Research and Development site manager, Europe & USA UTOC representatives, UTOC R&D site operator, and a commercially configured UTOC system operated for demonstrations to prospects / R&D purposes
- identifying 2 senior engineers-project managers for joining VO<sub>s</sub>PS as business grows
- identifying 3 order management-UTOC systems commissioning personnel for joining VO<sub>s</sub>PS as business grows
- close management of first-come-first-served production deadlines with order book queue of future start dates for new sales exceeding current production capacity
- taking every opportunity to extend delivery of work in progress to customer's convenience i.e. postpone completion of deliverables until 1 week after customer returns from vacation or family emergency if initial completion fell just before customer is leaving for vacation or during family emergency so customer doesn't have to deal with UTOC deliverables till he / she returns and is resettled allows reallocation of production to more pressing delivery requirements or starting work on new orders

## Business Growth Rate Fluctuations

VO<sub>s</sub>PS' preparations for business fluctuations include:

- value based pricing of transformative UTOC systems has encountered no resistance to pricing that provides ample retained earnings to carry VO<sub>s</sub>PS personnel through slow periods
- minimal potential for negative growth as a strong Proforma resulted from word-of-mouth enthusiasm; GGL, and our US representative's business development and web information spawning multiple potential first year sale prospects; strategic affiliation memorandums of understanding / Technology Use Agreement partnerships, and; commission compensated agents for North and South America
- ensuring that positive cash flow milestone payments include proportionate UTOC sale profits (following "Risk Assessment & Contingency Plan" clause)

## UTOC Order Cancellations

VO<sub>s</sub>PS is protected against defaults as customer relinquishes all claims to milestone prepayments and associated work that goes into VO<sub>s</sub>PS inventory for resale.

## UTOC Technology Replication

This risk is minimized as there are no patents so no detailed information available for competition to easily copy UTOC innovations. Although UTOC system hardware can be easily reverse engineered, like Coca Cola, critical UTOC IP (automation of its counterintuitive operation) is closely held in house by a select few individuals.

## USA Tariffs

USA's comparably small portion of UTOC sales from GGL international operations and VO<sub>s</sub>PS' steel fabricator having a plant in Omaha Nebraska makes VO<sub>s</sub>PS relatively unaffected by USA tariffs.

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## Achieving Aggressive Sales Projections

A blend of discretionary profit allocations and investments totalling CAD\$8,000,000 will fund upgrading the one day warm weather demonstrations High Bluff Manitoba site to a UTOC centre of excellence and world class sustainable-populations-without-waste Research and Development facility. The site will be complete with Mechanical Sewage Treatment, Organic Rankine Cycle electric power generation, steel building, and facilities for receiving / handling / processing the full range of solid and liquid organic feedstocks that the UTOC can recycle when operating 24/7/365, except for ~2 weeks annual maintenance and R&D upgrades.

A UTOC system operating 24/7/365, international web access for real time viewing of operations, and accelerated marketing activities maximizes probability of achieving exponential growth projections.

## UTOC systems performance assurance

Value based pricing includes allowances required to maximize customer satisfaction in the early stages of commercializing new, transformative technologies like the UTOC. Sufficient discretionary funds are budgeted to immediately address UTOC system related (or, within reason, perceived related) issues as may arise during project commissioning and operations thereafter. VO<sub>s</sub>PS prefers to, as practicable, immediately utilize discretionary contingency / profit funds for resolving such issues instead of “finger pointing” that often occurs in such situations. Even though the source of a UTOC project issue may not have been related to the UTOC system, identification and allocation of responsibility(s) always takes longer and has potential to cost VO<sub>s</sub>PS more in the long run than VO<sub>s</sub>PS having funds to expeditiously resolve unexpected UTOC problems (real and, within reason, perceived related) that arise.

UTOC technology IP and performance capabilities are contained in a comprehensive ~530 line computer model that is continuously reconciled with UTOC systems operations and third party test results.

## Sustaining UTOC preeminence

It is VO<sub>s</sub>PS objective to retain market entry preeminence that others strive to emulate by maximizing IP security, stewardship, and succession. VO<sub>s</sub>PS has contracted service agreements with 3 senior mechanical engineers at various stages of UTOC IP familiarization with a 4<sup>th</sup> available as soon as business volumes require. Companies / personnel requiring knowledge of VO<sub>s</sub>PS IP in order to fulfill their VO<sub>s</sub>PS' contract obligations are required to sign non disclosure agreements.

The **quiescent**, ultra low emissions UTOC organic waste recycler into clean energy technology self promotes its higher value than the **turbulent** incinerator combustion alternative. Marketing consists of information dissemination via strategic affiliation MOUs and agreements (e.g. GGL), internet, news media, UTOC technology demonstrations, and exposition / convention presentations, booths, and displays.

Persons observing UTOC technology in operation are immediately impressed with its simple, unique, robust, quiet, efficient performance.

## THE COMPETITION

### Competitors and type of Competition

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***There are no competitors to the simple, unprecedented next generation UTOC*** that recycles any planet organic waste ***directly*** into a clean hot gas stream in less than 3 seconds; only much more complex ***alternative*** Energy From Waste technologies (see preceding “Major Players” clause).



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## Competitors' Strengths and Weaknesses

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### Alternative Technologies Strength

Numerous existing commercial installations that can be observed in operation.

### Alternative Technology Weaknesses

Incapable of providing the combination of several, most less all UTOC Technology capabilities / benefits in "Competitive Advantage" below.

## Competitive Advantage

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### UTOC Technology

**Universal organic feedstocks capable UTOC has no competitors**, only more complex, application specific **alternatives** for converting organic wastes into energy. No alternatives come close to offering the following **collective** UTOC capabilities / benefits.

- self sustaining universal organics feedstocks processing capability; most independently otherwise any combination / permutation thereof:
  - Municipal Solid Waste, medical waste, petrochemical industry wastes, and like
  - plastics including films / bags / drinking straws / wind farm end-of-life turbine blades / old boat hulls / and like
  - industrial wastes (tires, spent lubricants, PCBs, benzenes, chemicals, and like)
  - raw sewage screenings, dilute sewage plant sludges, septic tank-holding tank-portable toilet contents, landfill leachate, and like
  - refuse derived wastes (demolition, construction, disaster, auto shredder residue, and like)
  - utility poles and rail ties
  - forestry and agricultural industry wastes (bark, sawdust, contaminated grains, and like)
  - livestock / food processing industries waste (fishery / slaughterhouse offal, deadstock, meat & bone meal, manures, ***Specified Risk Materials***, culls, off-spec product, and like)
  - contraband and hazardous wastes (pesticides, herbicides, and like)
- automatically adjusts to random / rapidly varying combinations / permutations of solid, liquid, vapor, and/or gas phase feedstocks
- automatically adjusts to rapid / random variations in feedstock caloric content down to ~7 MJ/kg (~65% water content); no upper limit
- self sustaining, no fossil fuel or other thermal input after start up preheat
- 100% organics conversion efficiency; only metal & mineral feedstock fractions remain in ash
- ~90% of combustion occurring in an oxygen deficient environment significantly reduces NO<sub>x</sub> production
- prerequisite 1,000°C (***assured continuous homogenous minimum***) temperature **flameless combustion** allows <1% residual oxygen thus ultra low NO<sub>x</sub> emissions; ~10% incinerator values
- 1,350°C process design temperature, 22% higher than alternate thermal processes
- zero carbon monoxide emissions, zero methane emissions

# BUSINESS PLAN

- full modulating capability down to 15% of design
- redefines the 3T incinerator combustion paradigm (Time, Temperature and Turbulence <https://www.thecmmgroup.com/three-ts-combustion-matter-pollution-control/>). UTOC's quiescent combustion process requires only 2Ts (Time and Temperature).
- small carbon footprints
- 50% of landfill CO<sub>2</sub> equivalent emissions from "as delivered" Municipal Solid Waste
- heat extraction only after 2 second hot gasses retention at 1,000°C equivalent, no lower temperature toxic organic escape paths in combustion chambers
- lowest parasitic electric power requirement of Energy From Waste technologies
- operates outdoors at planet climate extremes, minimal infrastructure
- no liquid waste stream discharges
- safe; combustible vapours contained within slight negative pressure envelope and burned in less than 3 seconds of production
- fail safe gravity hot gas vent / flare auto activates to maintain system under negative pressure when induced draft fan stops
- capacity easily adjusted with small change in organics vaporizing chamber temperature due to 4th power radiant energy intensity from temperature
- negative pressure allows random service access into operating process
- auto modulates energy output (organics recycling rate) to match project load requirements
- lower combined project CAPEX and O&M cost than Energy From Waste plant alternatives
- quiet, odourless operation
- no organic waste (feedstock) receiving / mixing pits, all UTOC plant construction is above grade
- no overhead feedstock handling cranes
- biomass ash is fertilizer; post processed MSW ash can be used as asphalt or concrete block and brick aggregate

## Customers

NAME \ ADDRESS		TERMS	PRODUCT / SERVICE
1	No customers		
2			
3			
4			

# BUSINESS PLAN

VOsPS' CAD\$100 million September 13, 2025 ChatGPT (attached) referenced valuation is 667% the CAD\$15 million valuation in August 2024. The 5 year CAD\$1.6 billion "no competition" UTOC sale prospect potentials are:

1. New Zealand 1<sup>st</sup> project (50MM): CAD\$3,000,000 sale 2025
2. Ottawa pilot project (10MM): CAD\$3,000,000 sale 2026
3. Ottawa main project (340MM): CAD\$28,000,000 sale 2026
4. California community 1<sup>st</sup> project (1,140MM): CAD\$110,000,000 sale 2027
5. California agrifood 1<sup>st</sup> project (450MM): CAD\$44,000,000 sale 2027
6. California agrifood 2<sup>nd</sup> project (600MM): CAD\$58,000,000 sale 2027
7. New Zealand 2<sup>nd</sup> project (30MM): CAD\$1,500,000 sale 2027
8. Toronto Canada project (700MM): CAD\$68,000,000 sale 2027
9. UK; 150 medical **tpd**, project (90MM); CAD\$3,000,000 sale 2027
10. West Africa 1<sup>st</sup> project (570MM): CAD\$20,000,000 sale 2027
11. Energy From Waste plant at SEWPCC Wpg MMB project (1200MM): CAD\$115,000,000 sale 2027
12. Portage la Prairie project (40MM): CAD\$4,000,000 sale 2027
13. West Africa 2<sup>nd</sup> project (1700MM): CAD\$62,000,000 sale 2028
14. UAE project (1700MM): CAD\$62,000,000 sale 2028
15. California community 2<sup>nd</sup> project (500MM): CAD\$48,000,000 sale 2028
16. West Africa 2<sup>nd</sup> project (2280MM): CAD\$80,000,000 sale 2029
17. Expected additional UTOC sales potential by 2029 resulting from aggressive efforts of UTOC sale commission compensated international technology brokers and project developers (GGL for example), and; major increases in VOsPS business development (open access web site, attending / presenting at local & international conventions, etc.); potential CAD\$890,500,000

## Suppliers

NAME \ ADDRESS	TERMS	PRODUCT / SERVICE
<b>1</b> Schneider Electric 21 Omands Creek Blvd Winnipeg Canada	30 days	Automation system hardware supplier
<b>2</b> Sperling Industries Ltd. 51 Station Street Sperling, MB Canada R0G 2M0		
<b>and</b>	30 days	UTOC systems fabricator / builder
Sperling Industries U.S.A. Inc. 2420 "Z" Street Omaha, NE 68107		



# BUSINESS PLAN

<b>3</b> MZ Contracting Ltd. 715 Greenwood Avenue - Selkirk, Manitoba Canada R1A 2B3	30 days	design / supply / installation of UTOC high temperature insulation and refractory systems
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## Advertising & Promotion

Supporting efforts of international technology brokers and project developers (e.g. GGL), developing / posting an open access web site, news media events, attendance / presentations / booths / displays at local and international expositions / conventions, prompt response to potential business / affiliation leads, and demonstrations at our UTOC centre of excellence site; Google Earth coordinates 49°59'36.42"N, 98°06'46.24"W.

## Pricing & Distribution

UTOC combined project CAPEX and Operating & Maintenance costs are ~80% its closest alternative, incinerators.

VO<sub>s</sub>PS manufactures and sells complete UTOC Energy From Waste systems into North and South America projects.

GGL (Giant Green Leaf) in Aberdeen Scotland is the UTOC systems distributor for Africa, Asia, Europe, and Middle East. GGL, under a **TUA** (Technology Use Agreement), manufactures (in the customer's region) and supplies all UTOC system deliverables except for automation and electrical components thereof that are designed, manufactured, programmed, delivered to site, installed, and commissioned by VO<sub>s</sub>PS.

## Customer Service Policy

VO<sub>s</sub>PS personnel inspect UTOC installations on site, supervise start up and commissioning, and train owner's staff in the operation & maintenance thereof.

VO<sub>s</sub>PS, as practicable, provides remote problem resolution consultation. VO<sub>s</sub>PS service personnel are dispatched to sites where UTOC system issues cannot be resolved remotely.

UTOC system owners provide unrestricted internet access 24/7/365 to their UTOC automation system so VO<sub>s</sub>PS can, at any time, access owner's UTOC system and remotely view the same information as displayed on owner's plant automation system screens. VO<sub>s</sub>PS representatives will advise owner's plant operator if problems in UTOC system operation or opportunities to increase system performance are detected.

VO<sub>s</sub>PS warrants UTOC contract deliverables to be free of defective material and workmanship for a period of 12 months from the date contracted performance is demonstrated at a project site; provided such equipment receives normal and proper maintenance, adjustment, and usage. Defective components will be repaired / replaced at VO<sub>s</sub>PS' option.

VO<sub>s</sub>PS' warranty covers repair or replacement and delivery of parts to the project site. The owner (at no cost to VO<sub>s</sub>PS) removes, returns, and installs replacements for defective components. The warranty does not apply to equipment that has been subject to abuse, accident, alterations, or operation / maintenance contrary to guidelines in VO<sub>s</sub>PS' UTOC system Operating & Maintenance information.

# BUSINESS PLAN

## Location, Size and Capacity

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VO<sub>s</sub>PS operates out of a 200 ft<sup>2</sup> area at 602-300 Waterfront Drive, Winnipeg, Manitoba. Corporate office space will be progressively expanded in pace with business growth.

## Advantages or Disadvantages

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VO<sub>s</sub>PS plans to remain in the Winnipeg down town area. A down town Winnipeg office is readily accessible by VO<sub>s</sub>PS' staff, contractors, suppliers, strategic affiliates, and customers. Quality hotels and restaurants abound in the area.

The majority of VO<sub>s</sub>PS personnel will work from home offices on password secured, cloud backed up corporate files. This removes (proximate average) one hour and 15 minutes / day of VO<sub>s</sub>PS personnel travel, allowing more family time and, where needed, additional work hours without increasing daily time commitment to their jobs.

A significant portion of future VO<sub>s</sub>PS office space will be a state-of-the-art meeting room with seating for ~14 persons. It will be equipped with two way audio-video screens to facilitate international webinars / presentations / meetings, as well as group observation of any of its UTOC installations for marketing and troubleshooting events.

The balance of future VO<sub>s</sub>PS office space will be a professionally designed, welcoming, reception area; private offices for VO<sub>s</sub>PS' executives, and; individual, non dedicated work spaces with computer connections to the cloud for use by VO<sub>s</sub>PS' "home office" personnel when at the office for job / team meetings, presentations, and like.

## Lease or Ownership Details

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Current 200 ft<sup>2</sup> office allocation is in VO<sub>s</sub>PS' CEO's condo. VO<sub>s</sub>PS will relocate from that "start up" office to larger, expandable office space as soon as discretionary funds permit.

Ideally VO<sub>s</sub>PS will purchase the 7,146 ft<sup>2</sup> second floor office space at 300 Waterfront Drive. That space was listed for sale at \$1,850,000 in 2020.

## Equipment, Furniture & Fixtures

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Majority of furnishings expenditures will be for the future office meeting room and executive areas. Furnishings for VO<sub>s</sub>PS' staff and contract personnel "while at office desks" will be minimal as most of the time they will be working from their home offices.

## Future Expenditures / Technology Requirements

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VO<sub>s</sub>PS' staff and selected contract personnel will be supplied with VO<sub>s</sub>PS owned computers, printers, software licenses, associated consumables, and like.

# BUSINESS PLAN

## Research and Development

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Our UTOC commercial ready technology, version 6, is operated for demonstrations near Portage la Prairie Manitoba. The Manitoba Government and the Canadian Food Inspection Agency (CFIA) involvement from the outset; UTOC high conversion efficiency / ultra low emissions being verified by operating UTOC versions on numerous occasions and University of Manitoba, BOMA Environmental, CFIA, and Dillon Consulting Limited tests; no challenges resulting from international due diligence, and; a September, 2017 Palmerston North New Zealand meeting with Professors from Massey University's Chemistry and Industrial Automation departments have collectively validated the exemplary UTOC as a commercial ready, scientifically sound, easily controllable technology. The commercial process configuration UTOC version is now started up for same day demonstrations near Portage la Prairie, Manitoba, Canada. The system does not operate when outdoor temperatures are below 0°C. Although UTOC systems can operate at coldest planet temperatures, frozen feedstock in hoppers does not flow into the process injection assembly. A heated feedstock systems enclosure constructed with investment funds will solve this problem.

The rugged, reliable, simplistic, sustainable UTOC has no competition. Ongoing Research & Development will focus on maintaining separation between UTOC's preeminent Energy From Waste technology capabilities and attempts to emulate.

## Environmental Compliance

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Third party testing of UTOC versions have proven promoted performance (when processing biomass and rail tie feedstocks) compliant with current environmental regulations; **without emissions controls**.

On January 18, 2024 VO<sub>s</sub>PS presented its UTOC technology and emissions claims to 13 Manitoba Environment and Climate representatives, and VO<sub>s</sub>PS vision for UTOC recycling of City of Winnipeg sewage sludge and Municipal Solid Waste into clean, sustainable energy. As for our October 2013 presentation to 2 senior environmental authority representatives in Ireland, there were no concerns with any aspects of our information.

## Additional Information

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VO<sub>s</sub>PS' 3MM (3 million Btu / hour [880 kW thermal / hour] conversion capacity) commercially configured UTOC demonstration system was completed for same day start up-demonstration events in the fall of 2021.

## Key Employees

NAME OR TITLE (N° OF POSITIONS)	KEY RESPONSIBILITIES	QUALIFICATIONS
1 CEO	Responsible for corporate operations, morale, and UTOC technology design / performance	Strong, proven UTOC technology and rapid corporate growth management experience
2 Business Coordinator	VOsPS corporation, contracts, and supplier and financial administration	Strong, proven rapid growth corporate / personnel administration experience with working knowledge of UTOC systems
3 Business Development & Marketing	Client development / liaison / expectations management / satisfaction; always with consideration for company project scheduling and capacity realities	Previous experience in Key responsibilities
4 UTOC technology & Automation Lead	Senior UTOC technology and automation system knowledge sufficient for maintaining UTOC prominence in the marketplace and expeditious troubleshooting of system operation issues	Previous experience in Key responsibilities

## Additional Information

Successors / support personnel have been identified for all VOsPS positions (CAD system operators, designers, UTOC technology specialists, automation system designers and programmers, and project managers to executive) and are available as required to address rapid UTOC sales growth potential.

## POLICIES AND PROCEDURES

### Hours of Operations

35 hours / week (minimum) flex time as required to meet work obligations, colleague / VOsPS affiliate / supplier / customer work interfaces, and schedule commitments.

### Number of Employees

Two part time plus 2 full time and 2 principals by January, 2026.

VO<sub>s</sub>PS staff will be mainly senior corporate managers, UTOC technology specialists / designers / automation system designers-manufacturers-programmers, and office / accounting / production management personnel. It would be challenging for VO<sub>s</sub>PS to recruit / train / manage / support overheads / ensure product quality-consistency of services contracted for 100% of the high growth rate potential of its preeminent UTOC technology. GGL is responsible for ~65% of production associated with UTOC system sales.

VO<sub>s</sub>PS provides the remaining ~35% production, proprietary computer modelling (UTOC systems sizing) and design / build / software development / installation / commissioning of automation systems for both its sales in North and South America plus UTOC systems sold by its Technology Use Agreement distributors.

## Vacation Program

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A vacation allowance increment will be included in hourly compensated income. Individuals can bank hours beyond 35 / week by work sharing with colleagues as required to accommodate their preferred vacation dates and durations. Employees / contractors identify how their work will be performed while on vacation and obtain VO<sub>s</sub>PS' Business Coordinator's approval thereof.

## Performance Assessment

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Each VO<sub>s</sub>PS employee's / contract person's compensation will be appropriate for his or her contribution to the success of the corporation. Each person's review will be based on demonstrated performance averaged over the period since his / her last evaluation. Only under special circumstances will a person's hourly income be based on other than demonstrated performance. An example would be an "Overseas Allowance" where an employee must live afar for a significant period of time.

It is the company's objective to provide unrestricted opportunity for all to achieve remuneration apportioned to their individual contribution to the success and profitability of VO<sub>s</sub>PS.

VO<sub>s</sub>PS' performance evaluation / hourly remuneration calculation procedure is based on an adapted version of the APEGM (Association of Professional Engineers and Geoscientists of Manitoba) curve. The APEGM curve is a "norm" where some individuals can be paid below the norm and some paid above; usually individual incomes fall within  $\pm 10\%$  of the norm.

Using the APEGM curve directly as a VO<sub>s</sub>PS reference would have a significant portion of VO<sub>s</sub>PS staff / contract personnel paid below the curve, an undesirable perception situation. Therefore, all VO<sub>s</sub>PS staff compensation will be at or above minimum performance curve values.

VO<sub>s</sub>PS expects that employees / contract persons will, for their own reasons (conflicting obligations, approaching retirement, etc.) wish to relinquish responsibility or reduce work load. This should be perceived as a privilege with the associated reduction in remuneration not being seen as an insult but, on the contrary, as a respectable choice that shows consideration for those wishing to continue carrying a greater work load / responsibility. This option is intended to allow VO<sub>s</sub>PS employees / contract persons to remain active in the company, for appropriate compensation, as long as there is a requirement for their skills and they wish to participate.

**TBA** (Transparency Before Action) is the precept of VO<sub>s</sub>PS.

**Meaning:** Be, as practicable, completely transparent with your supervisors and pertinent colleagues about your VO<sub>s</sub>PS related plans and ideas in addressing non routine situations / new developments before taking action thereon. Where action is urgently required within your area of expertise and TBA is not practicable, take appropriate action and advise your supervisor and pertinent colleagues of actions you have taken at earliest opportunity.

TBA has numerous advantages including:

1. Greatly reduced management / administration / client relationship overheads as compensation of persons employed and contracted by VO<sub>s</sub>PS is influenced by their demonstrated TBA effectiveness. TBA virtually eliminates supervisors' requirement to monitor activities of persons for whom they are responsible and the need to address situations arising from less than 100% TBA participation that require customer, supplier,

and / or other VO<sub>s</sub>PS personnel resolutions. TBA inherently and instantly makes all VO<sub>s</sub>PS resources available for expeditiously addressing non routine / new situation developments before problems begin.

2. Eliminates suspicions / discomfort / costs / delays resulting from independent actions individuals take at their convenience that can negatively impact their colleagues, VO<sub>s</sub>PS, and VO<sub>s</sub>PS' prospects, projects, and supplier / customer relations.
3. Increased morale.
4. Increased productivity by minimizing "after the fact" problem troubleshooting / resolution requirements.
5. Increased adherence to deliverable schedules.
6. Increased profits.

Above collectively provide incentives and resources to attract and maintain premium personnel / contractors.

## Training & Development

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The majority of training is in house by senior personnel accepting early on that enthusiastic training / encouragement / mentoring of successors is essential to sustaining corporate viability. VO<sub>s</sub>PS is expected to be a rapid growth organization, thus all employees, including management, are challenged to "work themselves out of a job" by appropriately and efficiently delegating as much of their work as possible to subordinates, ***without risking diminished corporate performance or UTOC quality***. As delegators will be responsible for the work they delegate, any reduction in performance or quality of delegated work will affect delegator's performance reviews, providing natural motivation for delegators to ensure subordinates performance meets, as a minimum, delegator's (corporate) standards.

## Remuneration and Benefits

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Market value based UTOC pricing in the absence of competition (only alternatives) provides significant contingency opportunity. VO<sub>s</sub>PS intends to share that opportunity by paying "best available" employees / contract persons 10% above market value plus participation in performance based profit sharing.

Key employees / contract persons, following an orientation period, will be considered candidates for participation in corporate ownership.

## Action Plan

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- |  |              |
|--|--------------|
| 1. Start preparation of VO <sub>s</sub> PS / UTOC open access web site | Nov 03, 2025 |
| 2. Commence UTOC demo automation and feedstock system upgrade designs  | Nov 03, 2025 |
| 3. First self financing UTOC system sale                               | Nov 17, 2025 |
| 4. Award demo feedstock system upgrade contract                        | Feb 16, 2026 |
| 5. Begin installing automation system and feedstock system upgrades    | Apr 01, 2026 |

## Objectives / Description of the Project

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VO<sub>s</sub>PS objective is to secure a CAD\$2,000,000 investment (2% of VO<sub>s</sub>PS equity) by October 30, 2025 for application to:

1. expanding automation system capabilities, upgrading HMI, and replacing sloped sidewall feedstock surge hopper with new live bottom assembly;

2. provide heated feedstock system enclosure to allow single day UTOC demonstrations when outdoor temperatures are below freezing;
3. perform overdue maintenance and implement UTOC demonstration system performance upgrades;
4. accelerate business development (open access web site, attending / presenting at international conventions and expositions, etc.), and;
5. VO<sub>s</sub>PS operations.

## Business History / Nature of Operations

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VO<sub>s</sub>PS' CEO, Ron Giercke, has developed and "specific function tested" 5 versions in arriving at the proven performance version 6 (**V6**), the commercial process configuration unit at the High Bluff UTOC demonstration site near Portage la Prairie, Manitoba, Canada. The specific function UTOC versions evolved as follows:

**V1 indirect** radiant energy vaporization of various organic materials

**V2 indirect** radiant energy, self sustaining, high temperature, ultra low emissions capability; no supplemental heat

**V3 direct** radiant energy advantages, 100% organic destruction, >1,400°C flameless oxidation, ultra low residual oxygen / emissions capability

**V4 direct** radiant, 900 times scalability, meat and bone meal feedstock, 5:1 turn down

**V5 direct** radiant auto feedstock injection control; significant commercial UTOC quality, customization, and Operating & Maintenance requirements identified

**V6 direct** radiant, profiled slope, inclined screw feed, ultra low NO<sub>x</sub>, commercial configuration UTOC warm weather demonstration system; no supplemental heat

## Products and Services

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VO<sub>s</sub>PS continues Research & Development and, designs, manages manufacturing, sells, supervises commissioning, trains operators, and provides after sale Operating & Maintenance-troubleshooting / support of UTOC systems in the global marketplace.

## Project Financing

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The CAD\$2,000,000 investment will fund demonstration system maintenance / upgrades and scale corporate operations ahead of first \$3,000,000 sale expected in November 2025.

## Management / Advisors

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### Director 1

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#### **Ron Giercke, CEO, VO<sub>s</sub>PS Inc.**

Ron has 55 years experience in performing and managing a broad spectrum of engineering services. His career spans a wide range of innovation research and development, prototype development, environmental, municipal, industrial, institutional, commercial, recreational,



engineering analysis, and computer services projects. His experience includes energy conservation and mechanical systems condition studies, value engineering, development of concepts / engineering designs / specifications, project planning, project management, cost estimating, construction supervision, plant commissioning, software development, corporate management and business setup.

The diversity in his career results from an aptitude for design and management innovation, expertise in networking human and technological resources, and a willingness to take on new challenges. His background in the agricultural and nuclear research industries; systems automation expertise; wide range of engineering consulting, project management and corporate management experience, and; computer software development / applications capability allows Ron to quickly assimilate and empathize with a broad range of client / project requirements / implications.

Ron is the UTOC inventor / developer.

## Risk Assessment & Contingency Plan

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See "Implications or Risk Factors" for potential risks and planned responses.

There is no indication at this time that further investment will be required after VO<sub>s</sub>PS first UTOC sale, the time to which will be significantly shortened by investments from this offer.

VO<sub>s</sub>PS will be financed by non refundable **positive cash flow UTOC order milestone payments** as % of **VO<sub>s</sub>PS North and South America contracts.**

Coincident with authorization to proceed	50%
UTOC high temp. envelopes ready for high temperature lining installs	25%
Prior to UTOC deliverables leaving Manitoba staging site	15%
Upon completion of VO <sub>s</sub> PS' UTOC system commissioning/O&M personnel training at project site plus first year "Ongoing VO <sub>s</sub> PS Operating & Maintenance Support"	10%

VO<sub>s</sub>PS will be financed by non refundable **positive cash flow UTOC order milestone payments** as % of **VO<sub>s</sub>PS contracts with Technology Use Agreement distributors:**

At time of UTOC order	20%
Upon receipt of general arrangement drawings and specifications	60%
Prior to VO <sub>s</sub> PS hardware deliverables leaving Manitoba loading dock	10%
Demonstration of contracted UTOC performance at customer's site*	10%

\* PLUS first year of VO<sub>s</sub>PS remote UTOC support / automation system software maintenance / update services at an annual rate of CAD\$700 per rated MM (million Btu / hour) UTOC capacity; min. CAD\$20,000/yr.

## Financial Institution

Name: Royal Bank of Canada  
Branch: Main Branch  
Transit Number: 00007  
Address: 220 Portage Avenue  
City: Winnipeg  
Province: Manitoba  
Postal Code: R3C 0A5  
Telephone: 204-988-4006  
Fax: 204-956-1314

## Supporting Documents

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### Attachments:

U\_SUSTAINABLE REMOTE COMMUNITY-R9

Gupta Article with graph

VOsPS VALUATION 25-09-12

VOsPS Proforma

1,000 tonne / day 570MM UTOC Energy From Waste project, plan & Elevation sketches, and plant isometric