

Gasosyn Energies Canada (Franbec Canada Ltd.)

Montreal ,

Bonjour,

Recently a new and unique technology called **Thermocycling**©, was introduced at the World Energy Congress in Montreal ; it consists in transforming any type of waste (municipal / industrial) into **GREEN ENERGY** .

To learn more see the attached press release (English, French & Spanish).

Respectfully.

John Dzafarov

V.P. Marketing

Gasosyn Energies Canada

(Division de Franbec cda Ltd.)



Introduction.

Gasosyn Energy Canada is a firm of consultants and experts in heat transfer and renewable energy for more than 30 years.

We are involved in the two most problematic challenges of our today society, Waste Management and **GREEN ENERGY**. (production)

Gasosyn Energy Canada is committed to introduce a new and unique “made in Quebec” technology, with a worldwide potential, called **Thermocycling®** which was recently introduced at the World Energy Congress held in Montreal.

The process is to transform Municipal Solid Waste (**MSW**) into a synthetic gas called **SYNGAS**, (hydrogen and carbon oxide), to replace fossil fuels such as natural gas, oil or coal, used in steam boilers in major industries, for the production of energy. With this process, 25 tons of **MSW** could produce up to 25 megawatts of electricity (**MWe**).

The core of our **Thermocycling®** process, is a high-powered thermal reactor, called **GASOSYN®**. This type of reactor operates at more than 1200°C in order to treat organic waste, from municipal, industrial, agricultural, or hospital sources. A reactor can handle up to 25 tons of waste per hour and 200 000 tons per year. Using several **GASOSYN®** on a site, gives multiple capacities, of 50, 75 or 100 T/H .

The **Thermocycling®** and the **GASOSYN®** have been developed by **Franbec** (Canada) Ltd and its Chairman Mr. Rejean Chouinard, who specializes in the area of gas and biomass for over 30 years. They have invested over 1 million dollars and obtained innovation tax credits for their works.

They also participated in several projects in the field of energy conservation, use of gas and biomass, including various residual materials and in purification of wastewater and clean air projects.

Benefits of Thermocycling©.

- According to the Kyoto Protocol, each ton of waste, not buried and processed to be transformed into **GREEN ENERGY**, would give right to **3.3 Carbon Credits**.
- We treat waste material as collected, with or without separation, to transform it into useful and cost-effective energy, eliminating **GreenHouse Gas (GHG)** emissions.
- A coal-fired power generation plant may benefit from our technology by replacing coal with the **SYNGAS** at better cost and producing less **GHG**.
- By using a catalytic reforming unit, **SYNGAS** can be **transformed into synthetic fuel, diesel or gasoline, (for aircraft, automobiles or trucks)**, same as those produced by regular oil refineries. 25 tons of biomass per hour produce 1000 barrels per day of synthetic petroleum products. This **GREEN ENERGY** can directly replace the fossil petroleum fuels, without emission of **GHG** in the atmosphere.
- In addition to the energy produced directly in the **SYNGAS**, there is generation of heat that can be sold to industries located in the proximity of a **Thermocycling©** plant. The heat is sold in the form of steam, thermal fluid, (500°C to 100°C) or hot water. (100°C to 40°C). Users reduce their fuel and electricity purchases, which leads again to **Carbon Credits** to sell.
- In cases where it is not possible to sell all the heat available, it is used to produce distilled water, then mineralized and/or gasified to be bottled and sold on the local or international markets, providing another source of revenue.

- A **Thermocycling**© plant is a source of steady energy, supporting the installation of other industries that require energy; the plant can recycle their residues and/or their wastewater.
- A **Thermocycling**© plant, with reduced investment, can operate a wastewater treatment plant at a better cost than a conventional one. Wastewater is distilled and used in the **GASOSYN**© steam boilers or/and for irrigation. Organic materials are recovered to be transformed into energy.
- Large institutions, such as hospitals, may be converted, with the installation of a **GASOSYN**© to transform their own waste and to produce their own energy, eliminating the use of fossil fuels and reducing their **GHG** emissions at the same time.
- When an electricity generation plant, using coal or oil, is nearby a large city, it is possible to use municipal waste as a source of biomass. By installing a **Thermocycling**© plant close to a power generation plant we provide the **SYNGAS** to replace coal or oil, at a better cost, especially if agricultural residues are also available for the factory.
- There are no emissions of pollution in the air or in the water, from a **Thermocycling**© plant or from a **GASOSYN**© that may affect the safety and health of workers and inhabitants of the region.
- Under separate cover, you will find how the **Thermocycling**© technology can be applied to the treatment of oil sands and contaminated ponds, In Alberta.



Conclusion.

After having consulted the CANMET Energy Technology Center in Ottawa and following their recommendation, we had our technology evaluated by BBC engineering of Markham, Ontario, and had the results certified by the Engineering firm of Brais Malouin and Associates, (**BMA**) experts in combustion and energy production.

These reports are available, but given the confidentiality of our **GASOSYN**© design, we have decided, for now, not to publish the details of the technical process on our website.

Franbec Canada suggests to interested countries and large production plants, using steam to generate electricity, a partnership in which **Franbec** grants a permanent operating license, for a **Thermocycling**© plant to supply them with **GREEN ENERGY**, in exchange of royalties. **Franbec** builds, operates, maintains and guarantees the operation of the **Thermocycling**© plant for a minimum period of 5 years. Local workforce could be used up to 85% to start, and then up to 100%, depending on the tasks.

Upon reception of a letter of intent from a country or a concerned developer, we proceed, with their participation, to a feasibility study to find an investor, Government or a local source of funding at an acceptable rate, along with the best possible use of the **SYNGAS** depending on the available biomass sources.

We are available to complete your information.

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