

# **GASOSYN Energies Canada**

## **Oil Sands Solutions.**

**GASOSYN Energies Canada** is a division of *Franbee eda ltd.*, a company established 35 years ago to work in energies, biomass and gas industries.

**GASOSYN Energies Canada** is promoting the installation of **Thermocycling™** plants, using our thermocracking reactor called **GASOSYN™**.

We are proposing a new and unique solution to clean the polluted tailings ponds resulting from rejected water from oil sands treatment.

Our solution is to use our **Thermocycling™** process. Taking for example, 100 pounds of oil sands, collected and transported to the treatment plant, to fuel the **GASOSYN™**, we can get 1 to 1,3 barrel of clean distilled water from tailings ponds.

These dirty tailings ponds can be emptied and the cleaned water reused in boilers for steam underground injection processes, to recover the oil.

The sand, used for fuel, exiting the **GASOSYN™**, is in fact sterilized at high temperatures and is free of oil. No other product added, only oil is taken out from the sand. It can then be used for reclaiming or other uses...

The solids from the tailings ponds are circulated in the **GASOSYN™** and dried, while traces of organics in it are used as fuel in the process. Dried solids can be disposed of in numerous ways.

A **Thermocycling™** plant can be adapted to numerous other applications. The cleaned SYNGAS can replace natural gas or, with additional transformation, generate diesel or gasoline, still having enough residual heat to distillate water in tailings ponds.

See the following diagram of our oil sands treatment and our web site: [gamosyn.com](http://gamosyn.com)

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# Franbee eda ltée

## Thermocycling© applied to Alberta's Oil Sands to clean ponds of dirty water.

Oil sands extraction produces dirty water usually held in ponds. Raw oil sand as collected can be used to feed our **GASOSYN™** Thermocracker. No other fuel required. We have our own autonomy; no connections needed to natural gas or electricity.



## 100 pounds of oil sand can produce 1 to 1.3 barrel of distilled water.

A **Thermocycling™ Plant** is an assembly of technologies to use the residual heat from hydrocarbons thermocracking and maximize the overall process efficiency. The source of fuel can be any type of solid or liquid organic materials but we give priority to raw oil sands and/or residues of heavy fractions, not pumpable to the refinery. With **Thermocycling™** the heat sources are used to distillate the polluted water from storage ponds. We recover the organics and return the cleaned water, to replace the fresh water for boiler uses or directed back to the river under continuous sampling recording.

**Using a Thermocycling™ Plant will make oil sands industries more ecological friendly.**

