



Waste Conversion to Energy Introduction

Global Green International
Companies





- Company Overview
- Business/ Opportunity Of Waste
- Technology And Process
- Waste To Energy Plant - Example
- Risk Management
- Strategic Partners
- Development of Technology
- Management Team
- Next Steps



Who We Are

Global Green Energy Group (Canada) Inc. is the Canadian subsidiary of **Global Green International Investments**, which holds the exclusive global license for leading waste-to-energy technology.

Since 2009, our Patented Pyrolysis Process has been successfully converting various waste streams—household waste, tires, and refuse-derived fuel—into clean, renewable energy such as renewable diesel, electricity, char, and hydrogen, preventing landfill accumulation.

The success of this technology is driven by its modular design, environmental sustainability, and strong economic viability.

We are actively working waste conversion facilities across Europe, Asia, Australasia, and the Pacific, supporting global energy transformation.

Opportunity – The Business of Waste

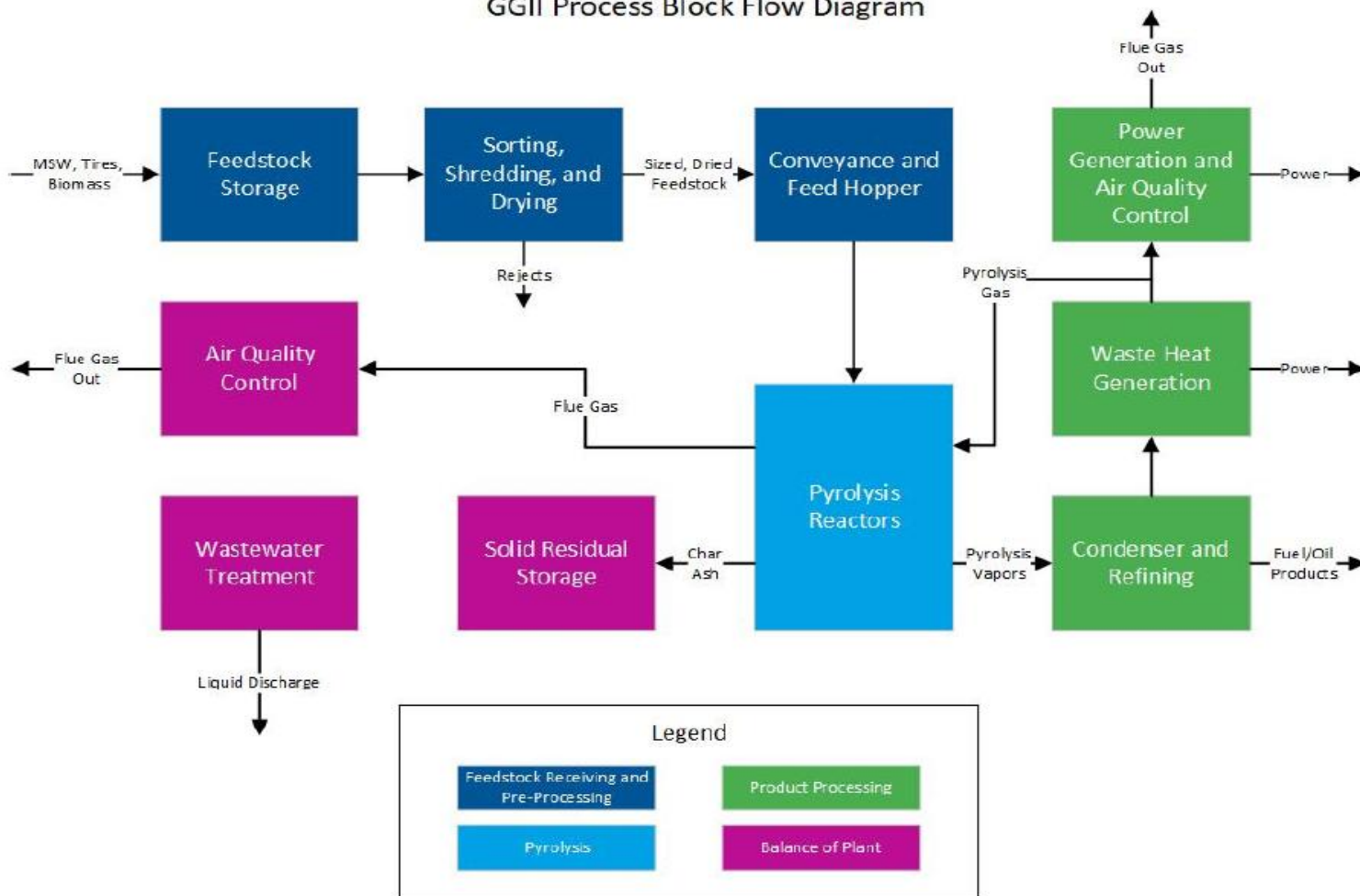
The **North American market generates approximately +300 million tons of waste annually**, with over **+50 million tons** ending up in **landfills**. However, landfill capacity is dwindling, with only 10 years remaining due to site closures and China's ban on recycled material imports.

As the waste management industry evolves, cities across Canada are implementing “Zero Waste” initiatives, aiming for 100% landfill and incinerator diversion through reuse, recycling, and recovery.

This shift presents a significant opportunity for companies specializing in Material Recovery Facilities (MRF's) and waste-to-energy technologies, driving the demand for sustainable waste solutions.



GGII Process Block Flow Diagram



Inputs

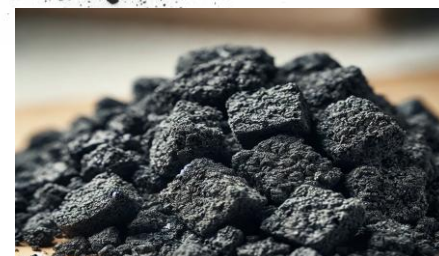
A significant portion of waste streams can be recovered, recycled, and reused

Municipal Solid Waste
Plastics, Tires, Biomass, Other
Carbon-Based Waste



Outputs

Renewable diesel, electricity, hydrogen, activated, carbon, steam, and biochar.



Pyrolysis Technology - Key Advantages

Proven technology- Plant operational 15+ years

- Sustainable long term waste management solution
- Minimize need for additional landfill sites – overall lower costs per ton
- Modular design/scalable to address population growth and increase in WASTE
- Meets global air, soil and groundwater emission standards
- Public relations – improve environmental profile while addressing waste problem
- Provide skilled and unskilled employment



The upcoming 5 slides will be tailored according to the audience, whether it is a general group, investors, or potential buyer of a WTE plant.

Waste Conversion to Energy Project – Overview

Total 28,000 tons annually

Daily - 80 tons MSW (Municipal Solid Waste).

Renewable Energy Outputs - Diesel and Electricity

Estimated Investment - \$45 M.

Feedstock and Lease Agreements – 20 Years.

Off-Take Agreements with global oil and gas company in place
and others are work-in progress

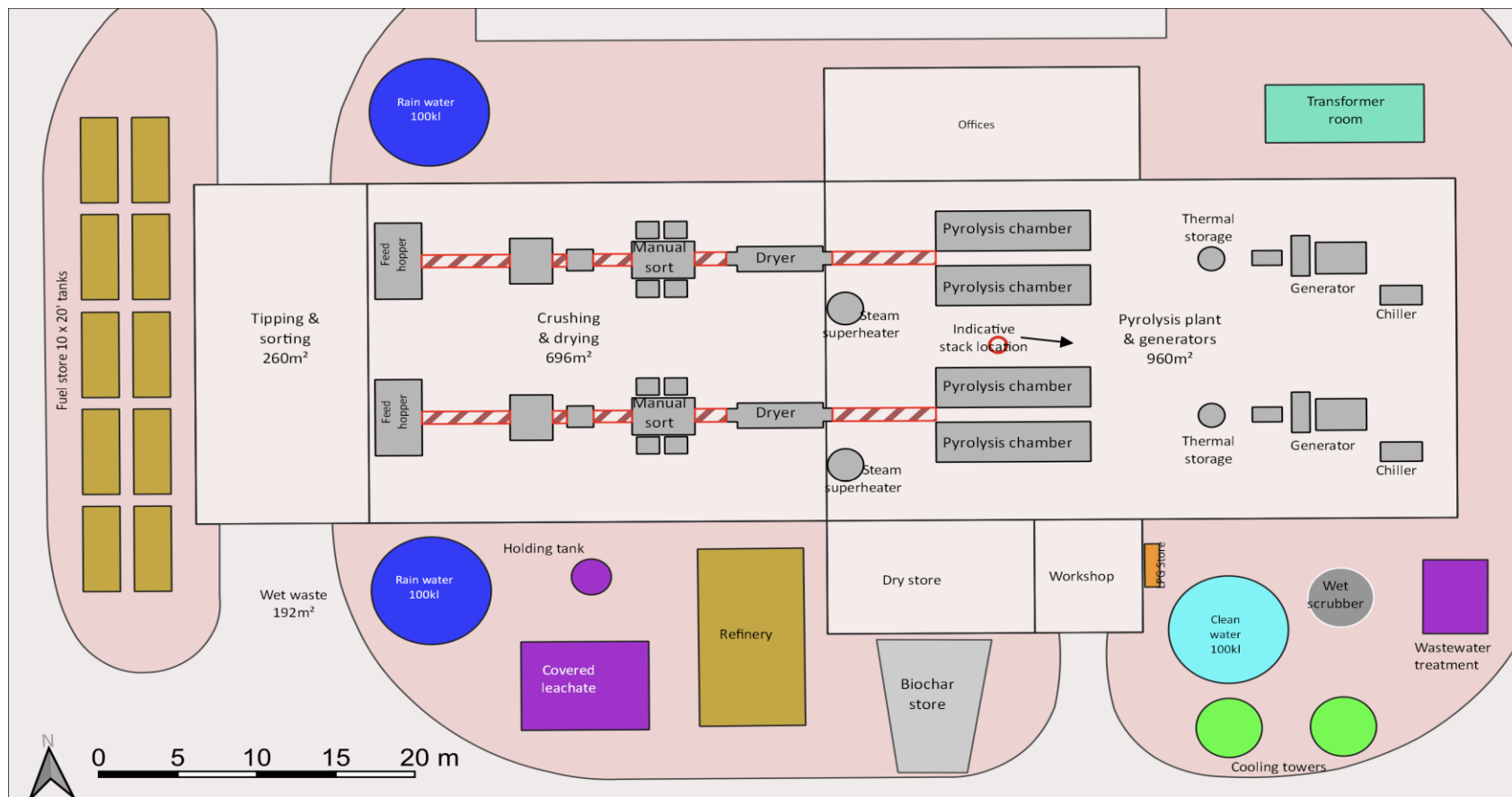
Required permits to be facilitated via feedstock supplier.

Compliance, regulatory, and permits process will be performed
by a major local environmental consulting company.

Plant Commissioning and Start-Up – 12 months after order placement.



Waste to Energy Plant Site – Indicative Site Layout



- Solid carbon (biochar or carbon char)
- Liquid fuel (such as synthetic diesel)
- Gases (including hydrogen for clean energy)

Pyrolysis can turn household, commercial, and agricultural waste into useful resources, reducing pollution and creating sustainable energy solutions



High Level Example of 80 Ton WTE – Financials

Cash Flow Statement

CAPEX Estimate

High Level Example of 80 Ton WTE - Financials

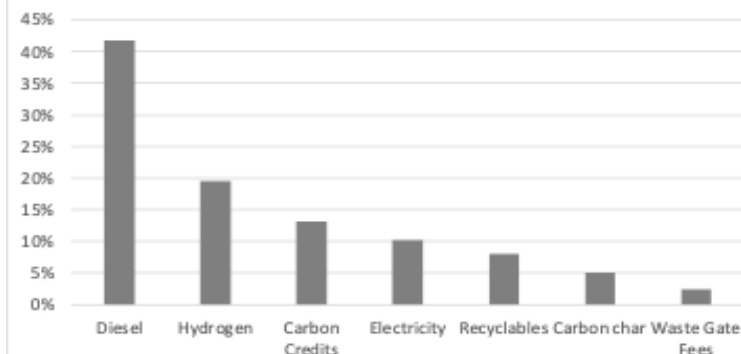
Initial 5-Years - Summary - USD Millions

Year

Capacity	80 Net Tons Per Day
Operating Days	330 Per Year
Outputs/Day	
Electricity	
Diesel	
Hydrogen	
Carbon Char	
Prices	
Electricity	
Diesel	
Hydrogen	
Carbon Char	
Gate Fee	
Tax Rate	
Interest Rate	

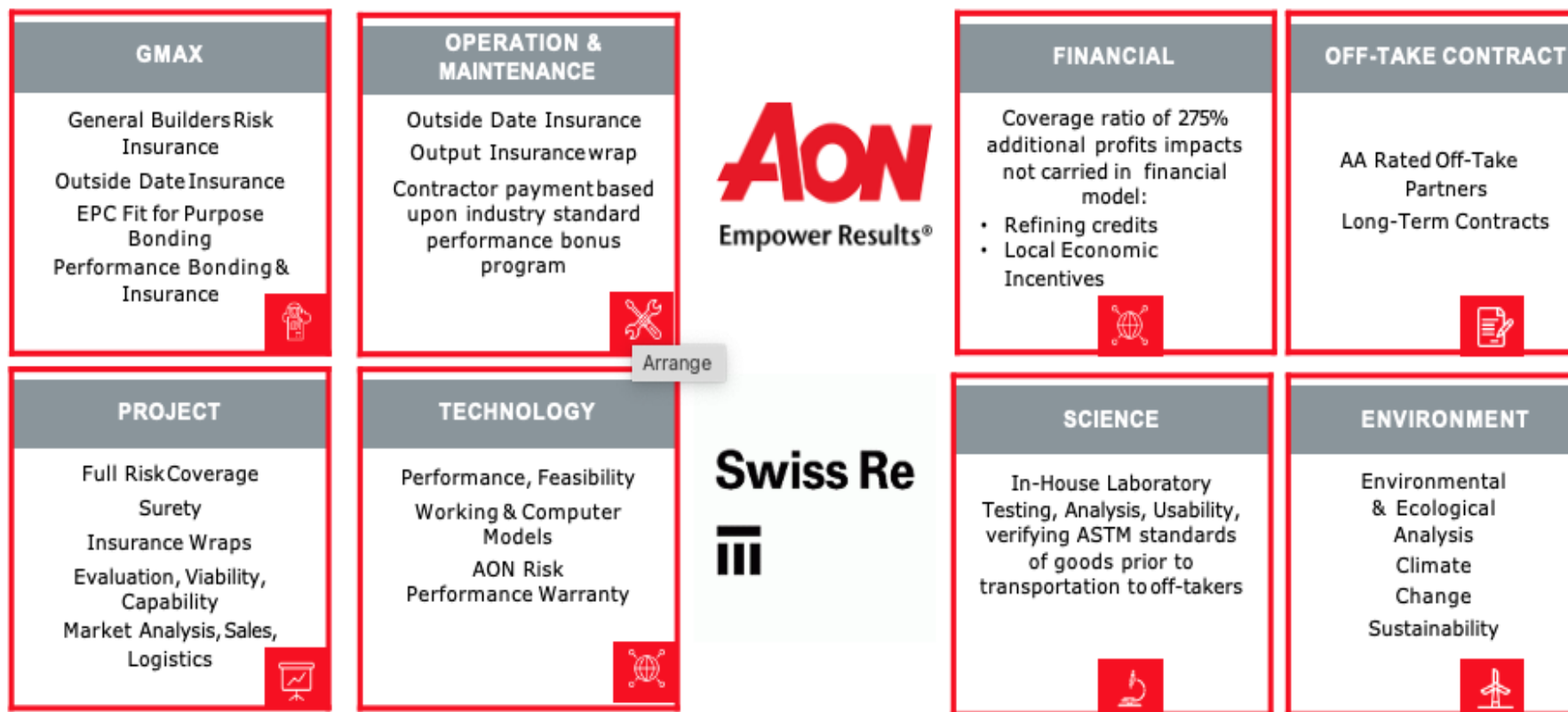
	1	2	3	4	5	Total
Revenue	20.4	21.0	21.6	22.3	22.9	108.1
EBITDA	11.5	11.8	12.2	12.5	12.9	60.9
EBITDA %	56%	56%	56%	56%	56%	56%

Percent of Total Revenue by Stream



Financial / Business Risk Mitigation

RISK REDUCTION



Arrange

Waste Conversion to Energy – Partners

EPC Contractor



BLACK & VEATCH

Operations & Maintenance



Engineering consultants



BLACK & VEATCH

Manufacturing Partners



HITACHI
Inspire the Next

Off Take Partners



Renewable diesel Refining Partners



A Honeywell Company



Renewable Electricity Partner



GE Power

Insurance Partners



Empower Results®



Lloyds



Waste to Energy - Technology Development

2005 – Five Ton R&D Plant Facility



Waste to Energy - Technology Development

Commissioned in 2009 - , First Generation 20ton MSW module produces 10K liters of renewable diesel per day, continues in operations .



Hankook Waste Tires Conversion Plant Commissioned - 2018



Hankook Waste Tires Conversion Plant

8 x 25ton pyrolysis chambers convert 200 tons of waste tires per day into energy and to fuel tire manufacturing process.



Our Management Team

Combines a wealth of experience, strategic vision, with diverse backgrounds in leadership, operation, finance and technology innovation.



Allan has been involved in GGII 's technology since 2004 and leads manufacturing as well as ensuring continued R&D ensuring innovation & world leadership in waste to energy

**Allan Clarke , Chairman & founder of GGII
Director GGE**



President of GGE in the Americas , with over 30 years in the Oil & Gas industry, Ruben has held senior management across key sectors, including Exploration & Production (E&P), Chemicals, Refining

Ruben Aldape ,CEO GGE



Steve is a chartered accountant and highly experienced in developing optimization strategies for operational facilities. Steve has worked international level and has headed up divisions of GE and Spotless.

**Stephen McIntyre
CEO GGII**



Alan has over 30 years experience in marketing development, analysing markets and implementing strategies to ensure facility objectives are achieved.

**Alan Matthews
Director GGE
Director GGII & CEO of GGIE**



Richard has global experience in infrastructure development and process engineering, operations and maintenance and leads the GGII engineering team

**Richard Simcock
Director Engineering GGII**



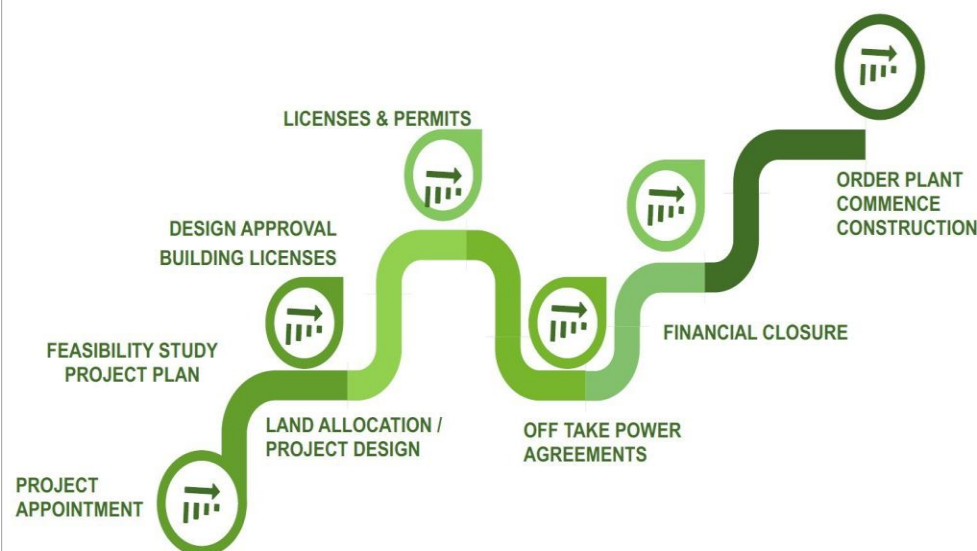
Steve has 35+ years in international banking and was Head of Markets for Westpac Hong Kong and GM of National Australia Bank. Steve works closely with the United Nations Sustainable Development Goals in promoting environmental and social responsibility for project implementation.

**Steven Lambert
Independent Director GGII**

Next Steps

- Prepare business plan for presentation to secure project funding.
- Engage environmental consultants to undertake environmental assessment and lodgment of relevant permit applications.
- Seek government approvals for SPV to build, own & operate the waste conversion facility.
- Engage architects to design the facility and prepare civil & building drawings.
- Engage Black & Veatch to manage EPC operation.
- Undertake waste characterization study to confirm plant outputs.
- Engage with potential off takers for diesel/electricity/char and carbon credits to secure offtake agreements.

PROJECTED MILESTONES



Global Green Energy Group and its affiliates are committed to advancing their innovative technology in small-scale pyrolysis plants.



*Today's trash
can be tomorrow's resources*