



SDG CORPORATE MANDATE



ABOUT ECOLUTION

ECOLUTION is an active participant in the global energy and ecological self-sustainability industries. We are focused on the delivery of sustainable waste-to-energy (WtE) solutions in developing world markets where the demand is high and all too often unmet. Our primary focus is community waste which represents a near-horizon environmental threat and is also under-utilized as a resource. Equally, under these typical paradigms, non-sustainable methods are employed with respect to the use, type and cost of energy for domestic consumption.

The ECOLUTION TEAM includes in-house civil engineers and accountants and since 1999, has been retained to produce a total of ten (10) Waste-to-Energy Feasibility Studies for clients throughout the world. There were many mitigating circumstances that prevented these various projects from coming to fruition, but the primary factor in all cases was the unsupportable expense of constructing and operating the proposed facilities.

As a result, ECOLUTION's Waste-to-Energy platform now advocates combining design, construction, ownership and ongoing operations of a WtE facility that processes Municipal Solid Waste (MSW) from landfills into Renewable Natural Gas (RNG) with the acquisition of the local electric utility. The RNG is used to power generators to supply electricity to the utility. This model, under most conditions is able to ensure sustainable, and possibly profitable operations for both.

At present, ECOLUTION is actively working with the Government of Grenada and funding partners to acquire the electric utility and construct a WtE facility there.

THE 17 SUSTAINABLE DEVELOPMENT GOALS

The Sustainable Development Goals are a universal call to action to end poverty, protect the planet and improve the lives and prospects of everyone, everywhere. The 17 Goals were adopted by all UN Member States in 2015, as part of the 2030 Agenda for Sustainable Development which set out a 15-year plan to achieve the Goals.

Today, progress is being made in many places, but, overall, action to meet the Goals is not yet advancing at the speed or scale required. 2020 needs to usher in a decade of ambitious action to deliver the Goals by 2030.

THE ROLE OF GOVERNMENTS AND PRIVATE SECTOR PARTNERING

Public-private partnerships have the capacity to promote and spur innovation and leverage new technologies that can then be scaled up or replicated for wider impact. Companies with sustainability business mandates or corporate social responsibility portfolios, philanthropists, impact investors, and institutional investors now spend considerable effort to work with international institutions, governments, and civil society organizations to generate sustainable and green growth. The private sector forms a key part of implementing the Sustainable Development Goals (SDGs), particularly SDG 17 (partnerships), with the expectation they will contribute with capital investment in the face of dwindling public resources. ECOLUTION subscribes to this corporate philosophy with its own mandate of compliance to each of the 17 Sustainable Development Goals. For details on how we have incorporated them into our business model, please see the detailed description for each below:

1) No Poverty

ECOLUTION's WtE Projects offer substantial positive economic impact for the host region or country in the form of permanent job creation for both skilled and unskilled workers. A typical WtE facility will provide hundreds of good paying jobs in many sectors including collecting and sorting waste and recyclables, transport, maintenance, security, administration and management positions.

Furthermore, an ECOLUTION WtE facility, by utilizing local waste as an energy resource, will prevent significant energy dollars from migrating out of the community or country allowing those funds to stimulate greater economic growth in many other domestic sectors.

In the event ECOLUTION owns and operates the local electrical utility as well, we will dedicate our resources to distribute affordable electricity and key infrastructure such as WiFi and Internet connectivity to non- or underserved areas.

ECOLUTION is committed to raising the standard of living for the communities we serve and will implement hiring and ongoing training and education protocols that are focused on lifting the most vulnerable citizens out of poverty into a growth-oriented, sustainable society.

2) Zero Hunger

The ECOLUTION Seed Depot and Home Garden Program represent our corporate response toward ending hunger and food insecurity at the local level. Fruit and vegetable seeds and recycled planters will be available for pick up at our Transfer Station for sale at cost, offered in exchange for dropping off recyclables such as plastics and tires, and/or donated to existing community support organizations for distribution to those in need.

Additionally, ECOLUTION will promote sustainable harvesting and collection of biomass to be converted into Renewable Natural Gas, (RNG) at our WtE facility. Proper implementation of this program will provide for an increasingly sustainable use of available resources regarding local food production while introducing enhanced protection from hazards such as erosion, soil contamination, under-utilization, and climate related crises.

As well, one of an ECOLUTION WtE facility's by-products is high-grade fertilizer, a commodity much in demand throughout the developing world. ECOLUTION will prioritize our fertilizer product's availability to the local agricultural sector and support sustainability programs for same. This results in the production of more food for local communities in our contribution to achieving Zero Hunger.

3) Good Health and Wellbeing

ECOLUTION's WtE Facilities are designed to remediate landfills of toxic waste contaminating the soil and freshwater aquifers. By properly disposing and repurposing of Municipal Solid Waste, (MSW), as well as human and animal waste, ECOLUTION is contributing to the general good health and wellbeing of the community.

In the event an ECOLUTION project also involves processing waste water and/or water treatment, our mission will increase toward investing in infrastructure that will provide proper sanitation and access to clean water throughout our service sphere.

4) Quality Education

ECOLUTION will invest in ongoing training and education programs for our employees and their families. This will include, but is not limited to, internal training and courses, subsidizing continuing education and courses, or offering post-secondary scholarship and grant programs. In addition to this, ECOLUTION will provide educational information on the SDGs on its website and make available online seminars explaining the SDGs and why we need to comply with them to any member of the public who requests it.

5) Gender Equality

ECOLUTION is an equal opportunity employer and committed to achieving gender equality in our workplaces and empowering women and girls within the nations and communities we serve. Consideration will be given equally to all applicants on a merit-based system. This mandate also applies regarding wage parity and opportunity for advancement within the ECOLUTION group of companies.

6) Clean Water and Sanitation

Every ECOLUTION WtE Facility will be outfitted with waste water treatment and filtration equipment to ensure all water used on site can be safely returned to the environment. ECOLUTION will also install an osmosis filtration system with storage to make potable water available in limited quantities for purchase and/or emergency use.

When an ECOLUTION Project involves processing waste water and/or water treatment, our mission will focus on investing in infrastructure that will provide proper sanitation and access to clean water throughout our service sphere.

7) Affordable and Clean Energy

ECOLUTION is committed to building clean, sustainable energy infrastructures in developing world markets where the demand is high and all too often unmet. In addition to our core offering of WtE facilities that convert MSW, plastics, tires and biomass into RNG fuel for clean burning electricity generators, ECOLUTION is committed to introducing wind, solar and tidal energy production into the mix as well.

The ECOLUTION 10 year plan is to harvest existing, and retire all new fossil fuel-based, single-use plastics from the environment and replace them with plant-based plastic alternatives. During this transition period electrical energy will be generated via the RNG produced. By 2032 this technology will be replaced with cleaner, sustainable alternatives as we seek to achieve zero carbon emissions for electrical energy production.

8) Decent Work and Economic Growth

Every ECOLUTION project looks to create well-paying, equal opportunity employment for local communities. In addition, ECOLUTION is focused on growing the economy within our sphere of influence and diversifying the sectors upon which that growth can be achieved.

See also SDGs 1, 2, 3, 4, 5

In all cases, ECOLUTION will work closely with all levels of government to assist with their mandates toward creating a vibrant and robust economy. ECOLUTION will allocate 5% of annual profit to fund a trust in support of government and private sector initiatives toward supporting local entrepreneurship, creativity and innovation, and encourage the formalization and growth of micro-, small-, and medium-sized enterprises.

9) Industry, Innovation and Infrastructure

ECOLUTION is committed to advancing innovation through continuous research, investing in new technologies and adopting best practices at all times. Our corporate goal is to leave any location we serve cleaner, more prosperous and with new infrastructure that will provide a sustainable energy future.

We will not limit ourselves, however, to simply providing cleaner energy sources if the opportunity is there to enhance any other sector of the local economy while accomplishing our core project objectives. This will include building roads, bridges, harbours, repurposing storage facilities and materials depots to emergency shelters on project completion, moving landfills and repurposing the site to maximize 'best use' potential given its location and circumstances, Internet services and other installations that will lead to an overall increase in GDP and diversification of economic development.

With regard to Grenada for example, we intend to move the electrical utility's generating station onto the existing Perseverance Landfill site, construct a harbour facility to receive off-shore MSW and tires for processing into RNG, and construct new roads connecting the harbour to the facility.

10) Reduced Inequalities

ECOLUTION will dedicate our employment protocols toward ensuring we achieve and sustain income growth for the lowest earning 40 per cent of the local population, (within our sphere of influence), at a rate that exceeds the national average.

See also SDGs 1,2,3,4,5.

11) Sustainable Cities and Communities

In addition to WtE, clean energy and waste water/water treatment projects, ECOLUTION will construct climate-resilient infrastructure wherever possible and as funding permits. This will include, micro-grid electrical utilities, durable, permeable and non-permeable inert polymer/aggregate roadways and WiFi, Internet and mobile communications networks.

The overall carbon emissions of the local ECOLUTION sphere of influence will be dramatically reduced by converting diesel and coal electricity production to cleaner RNG-generated electricity. Equally, the local transportation sector will also benefit with lower emissions, operating costs and greater fuel security by converting to RNG supplied by the ECOLUTION WtE facility.

12) Responsible Consumption and Production

By processing human and animal waste and biomass into RNG, an ECOLUTION WtE facility encourages proper utilization of community waste thus ensuring a sustainable relationship between resources, production, consumption, and related waste management.

ECOLUTION will engage governing bodies and the local population with resource management, food production and waste management and recycling programs to ensure SDGs are in practice throughout our sphere of influence.

13) Climate Action

ECOLUTION promotes and supports the Youth Climate Report, (YCR), a multilinear, interactive, database documentary film project using a platform of a Geographic Information System, (GIS), map showcasing

400+ videos of climate research produced by youth from around the world. The YCR project, created, curated and maintained by Mark Terry, a postdoctoral Fellow with the Dahdaleh Institute of Global Health Research and the Faculty of Environmental Studies, helps give young people a voice at the annual United Nations Climate Change summits known as COP conferences.

14) Life Below Water

One of ECOLUTION'S key objectives involves harvesting floating plastics in the five main ocean gyres, bundling at sea and shipping to our nearest WtE facility for processing into RNG. Ridding our oceans and waterways of floating plastic waste is a monumental task, and one that ECOLUTION and our financial partners are keenly focused on achieving.

There are many government and private organizations currently harvesting floating plastic waste. The ECOLUTION Grenada WtE plan includes processing imported plastic waste to be received at our proposed harbour. Content and bundling specifications along with processing fees will be communicated to these operators as well as governments looking to dispose of or repurpose their plastic waste.

15) Life On Land

Aside from remediating landfills and converting standard MSW, ECOLUTION will also be focused on processing rubber and tires into RNG. Waste tire depots present a major environmental and health risk to developing nations as a soil contaminant and fire hazard as well as a breeding ground for mosquitos and mosquito-borne viruses.

ECOLUTION WtE facilities will also process imported plastic and rubber waste from other regions or nations.

See also SDGs 3, 6, 11

16) Peace, Justice and Strong Institutions

ECOLUTION, with a history of working directly with the governing bodies of developing nations, is keenly aware of corrupt practices such as bribery, theft, and organized crime. At no time will ECOLUTION subscribe to or support such practices in any way, nor permit them to go unpunished should they come to light within our corporate jurisdiction.

ECOLUTION provides complete transparency in all our business dealings and will require the same of all parties connected to our various projects, contractors, and supply chains.

17) Partnerships For The Goals

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ECOLUTION will also use our website and social media platforms to promote new partnerships and affiliations with Clean Energy manufacturers as they develop.



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