

Corporate Profile



RENEWABLE ENERGY FOR GLOBAL SUSTAINABILITY™



wte/**maax**™



bio/**maax**™



solar/**maax**™



Tyre/**maax**™

NA/**ANOV**O
GROUP

INTEGRATING HUMANITY AND TECHNOLOGY™

Corporate Profile



Steven J.R. Brant
Chairman, President & CEO
Director & Founder

Message From Our Founder

As our company enters its twentieth year of operation, I am reminded of just how awesome our journey has been and how awesome the future looks for our company. I am also reminded of those who have devoted themselves to getting us here. I am grateful to our many supporters, investors, technical partners and suppliers who have stood by us through the difficult and lean years. Yes, there have been many obstacles to overcome and many challenges still ahead, but we have managed to stay focused and committed to our purpose, goals and to our core values. Our pipeline of projects is quite impressive and now stands at over \$19 billion USD, and it continues to expand. I look forward to each and every project being built knowing that the people we serve will soon have an abundant source of clean energy, clean water and clean air. I look forward to providing meaningful, long-term employment for thousands of people, especially in areas where jobs are badly needed. I invite you to read our Corporate Profile and to learn about our people and our technologies. Remember the name "Naanovo" as you will soon see this name in every corner of our planet, bringing renewable energy to those who need it most.

Our Company

Welcome to Naanovo, a global renewable energy development company. Our focus is on clean, renewable energy. We believe much of the world's growing demand for energy can be met with renewable energy technology. Not only do the technologies exist today that can produce clean, renewable energy, but Naanovo has the people and know how to put it all together and make it all work. With our strategic partners and friends around the globe, we are capable of designing, engineering, financing, constructing and operating renewable energy projects anywhere in the world. Today, Naanovo is active on four continents with well over a dozen subsidiaries and numerous renewable energy projects under development. Our projects range in size from 1 MW to over 100 MW, and involve Waste to Energy (WTE), Solar, Biomass and Tyre Derived Fuel (TDF) technologies.

Our Goal

The goal of Naanovo is to integrate technology and humanity by introducing affordable renewable energy projects to underdeveloped nations and emerging markets. Each project we undertake must have a positive impact on the environment and the health and economic well-being of the people we serve.

Our Core Values

Family is highly valued in all things that we do as a company, whether that be represented through individual employees that have their own families to consider, or whether that be through the business dealings we have within the broader community in which we operate, recognizing that all communities large and small are made up of families of all types, races, religions and creeds, that may be affected in various ways by the work we do. At Naanovo, family comes first.

Excellence is the gold standard in any successful business, the benchmark to which we at Naanovo purposely strive to achieve every day. We have already proven in our short history that by applying certain gold standard principles, such as CANI (Constant And Never-ending Improvement), we can compete very effectively in the global marketplace. With excellence as a core value, not only will we succeed as a company, but we will succeed as people.

Integrity is an important part of our character as a company and as individuals. It is something that we cannot take for granted and must be maintained at all cost, particularly in terms of how we represent ourselves to our clients, our suppliers, our employees, our partners and our friends. At all times we must behave responsibly, morally and ethically, in our business dealings and never knowingly create false promises or expectations that could damage the reputation of the company.

Stewardship reflects our sense of purpose as a company in that our reason for being is not simply to make money, but to contribute to the broader well-being of the global community, through the establishment of safe and responsible clean energy projects that protect and positively impact the planet's fragile environment. Our intentions are to put in place today the necessary clean energy technologies that will replace the need to consume fossil fuels for energy production in the future, resulting in a cleaner and greener planet for generations to come.

Transformation is the process of moving from one state to another. Through the use of best available clean energy technologies our goal is to move the world away from a dependency on fossil fuels to a dependency on renewable energy. We see this transformation as absolutely necessary considering fossil fuels are a finite resource and it is our responsibility to demonstrate to the world that there are viable alternatives. As a core value, everything we do reflects this understanding and our urgent need to be proactive in making this transformation happen as quickly as possible.

Entrepreneuring is at the heart of our core values as a company, implying that everything we do must not only contribute to the prosperity of the company, its shareholders and its employees, but also to the ideal of a free enterprise system which rewards hard work, innovation and adherence to basic values similar to our core values. Naanovo prides itself on being an entrepreneurial company and we look for the entrepreneurial spirit in our employees, contractors and suppliers, believing that spirit will transcend to the people and communities around us.



**Family
Excellence
Integrity
Stewardship
Transformation
Entrepreneuring**

**NAANOV
GROUP**

Our Organization

Naanovo is a global organization which has evolved over several years to take advantage of project opportunities as they arise. Naanovo currently manages a complex array of clean energy projects around the world at various stages of development. Our projects are located primarily in emerging markets which can pose unique opportunities as well as challenges. To be able to strike quickly when opportunity knocks, Naanovo has established Regional offices in London (Europe and Africa), Amman, Jordan (the Middle East and Asia), Bonaire, Dutch Antilles (Latin America and the Caribbean) and Guatemala City (Central America). Additional offices will be added later as needed. Naanovo's corporate support group has been strategically aligned to assist the regions to execute on projects and to work closely with the company's strategic partners and joint venture partners.



Our Management Team



Iyad (Eddie) Odeh
Chief Operating Officer
President, MENA & Asia



Steven J. R. Brant
Chairman, President and
Chief Executive Officer



Anthony N. Fiddy
Vice-Chairman
President, Europe & Africa



Ben Dickson
Executive Vice-President,
Projects



Kenneth Jørgenson
Chief Technology Officer



Luciano Simoes
President
The Americas



Hani Al Sadi
Regional VP
MENA



Giovanni Andrino
Regional VP
Central America



Angel Martilla
Regional VP
Caribbean



Ngozi Fakeye
Regional VP
Africa

Board of Directors



Anthony N. Fiddy
Vice-Chairman
Director



Iyad (Eddie) Odeh
COO
Director



Steven J.R. Brant
Chairman,
President & CEO
Director & Founder



Benjamin J. Dickson
EVP, Projects
Director



John J. Timmermans
Corporate Secretary
Director

Our Technology

Waste to Energy
Solar Power
Biomass Power
Tyres to Energy



Since 2001, Naanovo has been involved in developing renewable energy projects around the world, particularly in emerging markets, with a focus on Waste to Energy, Solar Power and Biomass Power Systems. Naanovo is quickly emerging as a world leader in alternative energy with projects being developed in various regions globally. Although Naanovo has proprietary technologies of its own, the company utilizes "Best Available" and "Best in Class" technologies from various OEMs as necessary.



Naanovo's modular WTE/Maax™ systems are recognized as the most cost effective and energy efficient (electricity per ton of waste) WTE solution in the world today. Most WTE plants convert only 25 - 30% of their thermal energy into electricity. Naanovo WTE plants will achieve 40 - 50%. With this advantage, together with the ability to produce large quantities of potable water and cinder blocks, Naanovo WTE plants are more than just your average WTE plant.

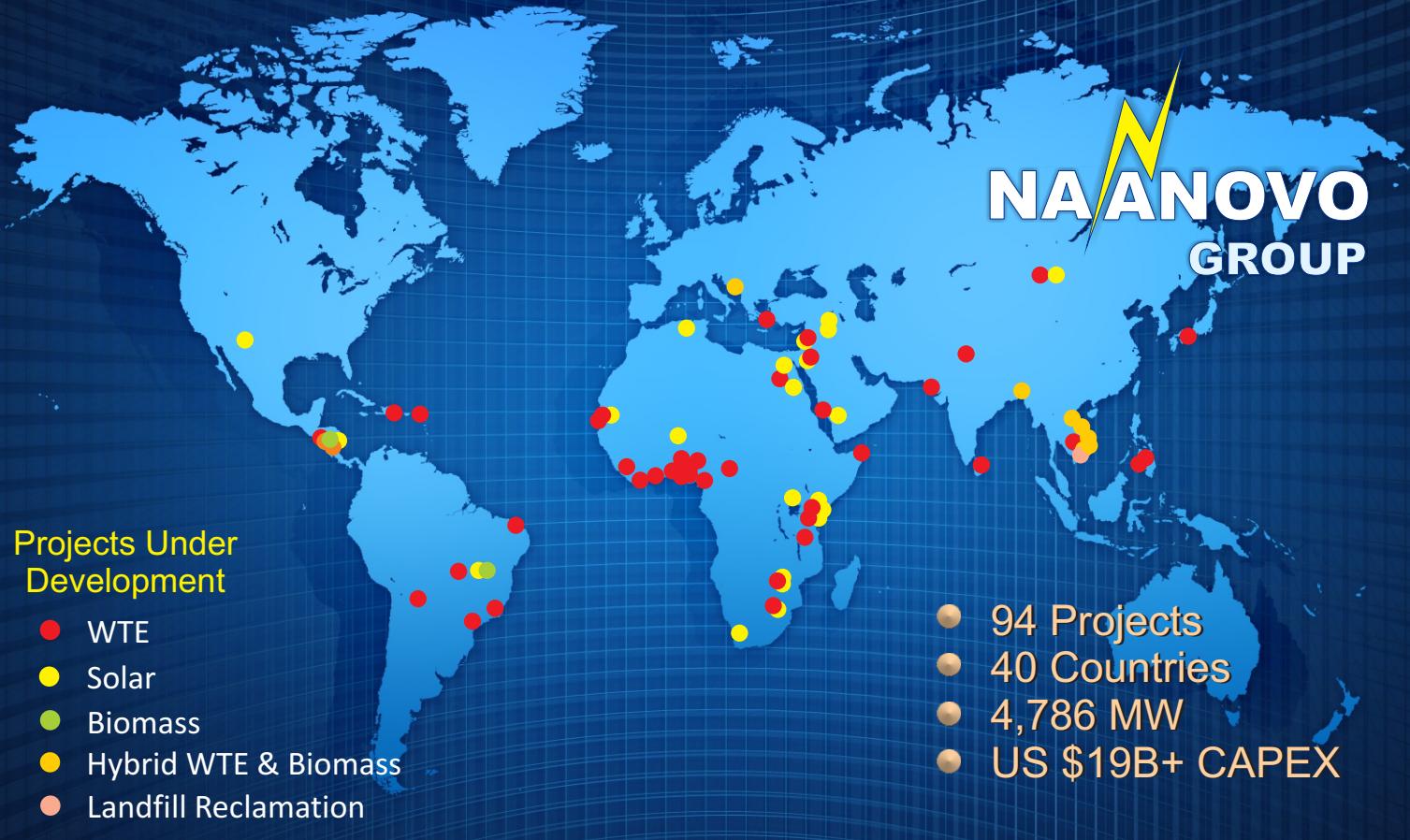
Naanovo's SolarMaax™ CSP and PV Systems are emerging as an industry leading low cost, commercial-scale solar power solutions. SolarMaax™ CSP systems utilize parabolic troughs to collect thermal energy from the sun and convert it into electricity, using standard steam turbines and generators. SolarMaax™ PV systems are able to compete effectively with other solar power systems and other alternative energy systems operating in the marketplace.

Naanovo's BioMaax™ Systems are tailored to the type of biomass available and the output required, such as power or syngas. Where forestry waste is available, thermal power plants are recommended similar to WTE/Maax™ plants and where organic waste from municipal solid waste streams is involved, anaerobic digesters are recommended to convert the waste to syngas for power generation or use in vehicles, with the residue being further processed into compost and bio-fertilizers.

TyreMaax™ is Naanovo's answer to the growing tyre problem. It is a complete system design which utilizes existing and proven state-of-the-art pyrolysis technology. Ancillary tyre shredding and handling equipment, as well as power equipment and machinery, are supplied and serviced by world class suppliers and OEMs. TyreMaax™ is designed to produce commercial quantities of electricity from recycling old, used, discarded, tyres and maximizing economic benefit from the sale of byproducts (i.e., steel, carbon-black, sulfur, syngas and biodiesel) produced during the disposal process.

Our Projects

Naanovo's network of professionals, agents, technical partners and joint venture partners have made it possible for Naanovo's pipeline of projects to reach 94 projects in 40 countries world wide, mainly in emerging markets, with an estimated power capacity of over 4,786 MW and with an estimated CAPEX exceeding \$19 billion USD.





Naanovo's proprietary, modular, WTE/Maax™ systems are recognized as one of the most cost effective and energy efficient WTE solutions in the world today. Most WTE plants convert only 25-35% of their thermal energy into electricity, whereas Naanovo WTE plants are designed to achieve 40 - 50%. These WTE facilities use modules that can convert 180 – 250 tons of municipal solid waste per day into 7 MW of electricity per hour with near zero emissions, depending on the caloric value of the waste. This advantage, combined with the ability to produce large quantities of potable water and cinder blocks, enable Naanovo WTE plants to provide a more impactful and profitable output than the more traditional WTE plants common in North America and Europe.

Naanovo is a Canadian Company with Swedish technology in its DNA. Naanovo acquired its WTE technology and "Know-How" from a 2002 merger with a Swedish technology company. It also acquired Heat Recovery Steam Generation (HRSG) technology and "know-how" from another Swedish company around the same time. The idea then was to marry the two technologies together to generate more power from the same fuel source by effectively utilizing the heat left over from the primary steam turbine. After years of prototype testing involving its own Organic Rankin Cycle based HRSG system, Naanovo discovered that similar HRSG systems were being manufactured and made available for sale in the market. This allowed Naanovo to shift its focus toward developing WTE projects, using this enhanced design, instead of merely selling WTE technology. What Naanovo has since discovered, after years of working with various OEM systems, designs and technologies, is a better way to improve plant profitability by not only maximizing power sales, but also maximizing revenues from each plant's byproducts (potable water and ash), hence the name WTE/Maax™. This knowledge and "know-how" has become our advantage.

Municipal solid waste fractions vary from one location to the next. Naanovo designs and engineers each WTE/Maax™ plant to maximize the caloric value available in the waste fractions and to optimise the output of saleable commodities (electricity, potable water and cinder blocks). If necessary, Naanovo can pre-sort the waste into organic and non-organic waste streams to take advantage of optional recycling systems and anaerobic digesters to treat the waste and to maximize the value of saleable byproducts of scrap metal, plastics and fertilizers, as well as energy. As such, WTE/Maax™ plants can easily be integrated into existing recycling programs.





Naanovo has been involved in designing solar power projects since 2006. Initially, Concentrated Solar Power (CSP) projects were the main focus as CSP represented the best value option for large-scale commercial solar power plants, because they could utilize thermal storage to extend the operating hours of the plant after the sun went down thereby improving the project economics. The economics of Photovoltaic (PV) solar technologies have since improved to where PV has become a viable option.

Solar power projects under 10 MW are typically more suited to utilize PV technologies because of the need for economies of scale with CSP. However, PV projects can achieve the same scale as CSP where storage is not necessary. CSP, on the other hand, can achieve up to 15 hours per day operating time with thermal storage and even achieve 24-hour base-load operation when utilizing fossil fuel or biomass to augment steam production within a hybrid-CSP configuration.



Naanovo's proprietary biomass gasification technologies involve both anaerobic digestion and combustion depending on the type of biomass feedstock available. For instance, biomass fractions found in municipal solid waste containing high moisture content is better suited to anaerobic digestion, whereas biomass from forest residue, such as wood chips, is better suited to combustion. In either case, maximizing overall plant efficiency in converting the biomass feedstock into saleable energy is the prime objective of BioMaax™.

BioMaax™ is the trade name used by Naanovo for all of its biomass related technologies, including BioMaax™ Biogenerators and BioMaax™ Power Plants. Each biomass project is designed according to the type of biomass available and how much moisture content is contained in the biomass. Plant sizes are designed to be modular with output ranging from 7 MW/hr.



TyreMaax™ is a complete system design which utilizes existing and proven state-of-the-art pyrolysis technology designed to produce commercial quantities of electricity from Tyre Derived Fuel (TDF) which utilizes old, used, discarded, tyres to produce electricity, while maximize the economic benefits of byproducts (i.e., steel, carbon-black, sulfur, syngas and biodiesel) produced during the disposal process. TyreMaax™ is designed to be a complete, modular, turnkey solution for the disposal of tyres ranging from 50 tons of tyres per day or 16,000 tons per year.



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Chairman, President & CEO

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Alliance Partners and Friends

Engineering
Construction
O&M Services
Project Finance
Carbon Finance
Financial Services
Compactor Trucks
Power Equipment
Telehandlers
Consulting
Shredders
Turbines
Balers
PV



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Compliance & Certification



US Environmental Protection Agency (EPA)



European Environmental Agency (EEA)

Each WTE plant will comply with the US- EPA's Maximum Achievable Control Technology (MACT) standards for reducing emissions, along with similar emission standards established in other jurisdiction (EEA, CONAMA and WHO) and meet ISO 9001, ISO 14001 and OHSAS 18000 certification.



International Organization for Standardization (ISO)



Occupational Health and Safety Advisory Services (OHSAS)



National Congress of the Environment (CONAMA)



World Health Organization (WHO)

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