

NgenX Energy Energy Enlightened

NGENX ENERGY POWER AND THERMAL SOLUTIONS OFFERING 09-30-2024





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Company introduction – Who we Are

Description

- Design build development firm focused on clean on-site power and thermal energy generation for energy dense applications
- Technology agnostic solution provider delivering custom energy solutions
- Trusted customer partner managing construction of energy optimized facilities and energy solutions





Key facts







Business model – What We DO





Product White Label resale

Technology Resale

NgenX Leadership



Charles Miller

66 The solutions we're providing genuinely help people in need.

Charles Miller knows energy. With over 30 years the energy space, he has spent his entire career solving problems by creating custom engineered solutions. In 2018, he founded NgenX Energy and Environments, an energy development company, and while it's definitively not his final opus, it may be-for now-his magnum opus. With NgenX, Charles takes a holistic approach to energy consumption and delivery, crafting solutions to create better operational environments and improve profitability for companies large and small. "Our tagline is, Energy Enlightened. It really is our gospel," he says. "We look at energy from a different perspective; it's not just electrons, it's not just BTUs, it's how all these things work together to create the most efficient system possible. Our years of experience and partner relationships are what differentiates us from the competition. Innovation is the key to our success."



Charles's knowledge and expertise come from varied sources within the industry. He has designed software for nuclear power plant simulations, and managed engineering and project development teams for construction, critical infrastructure, and renewable energy applications. However, the common frequency harmonizing all of his experiences has been his continuous search for new opportunities, new technologies, and new ways of integrating those technologies into solutions for his customers by analyzing the big picture.

NgenX works with technologies on the cutting edge of power generation throughout the U.S. Canada, and the Caribbean, targeting energy efficiency across multiple vertical markets. In some cases, such as data centers and the emerging cannabis market, they've helped their customers reduce energy costs by as much as 50%. A common application in the NgenX approach is combined heat and power—reclaiming the heat generated from onsite power generation and leveraging that heat in other operational processes. Using new and existing technologies and a network of experts, NgenX creates customized, optimal solutions for their clients—but they aren't stopping there. With their CEAPOD product, they've created a global solution for indoor agriculture. These controlled environment pods can be paired with a fuel source and placed in areas where fresh produce is not readily available. "It's given us the ability to grow fruits and vegetables anywhere in the world," Charles explains. "The solutions we're providing genuinely help people in need."

Charles Miller received his B.S. in mechanical engineering from The Catholic University of America, and his MBA in international business from La Salle University/John Hopkins University.



CONTACT: www.ngenxenergy.com | cjmiller@ngenxenergy.com LI: charles-j-miller-3559a69



Data driven solutioning. Conceptual designs 01 driven by fact and data Technology and service agnostic. The best technology with 02 the best team for the job Unique visibility of development team. Engineers with 03 business and finance perspective Tenure. Senior development team 04 with over 35 years of energy focus

Controlled Environment Solutions

Whether it's a Data Center, a Greenhouse, or an Operating room, the ability to maintain reliable power and environmental control is critical to the success of your operation. NgenX offers power and thermal solutions that provide efficient and reliable power and thermal energy with inherent redundancy in design for your critical operations



Solution Portfolio



CHP Simplified



NgenX's CHP Approach



- NgenX promotes Combined Cooling Heat and Power, which repurposes the heat generated by electric production to provide either hot water or chilled water.
- CHP is a tried and true, low-risk technology investment that can typically yield 12% to 15% unlevered return on investment.
- NgenX has coupled marquee technology providers into a unique CHP solution for energy intensive industries.
- The NgenX approach is scalable from 65 kW up to 50 MW, and provides reliable on-site primary power and cooling, with inherent redundancy, and with optional CO2 capture.



Supporting Green Generation

- Whether carbon reduction is a mission critical strategy or not, the application of combined heat and power significantly reduces facility carbon footprint
- *Compared to conventional generation and cooling approaches, the NgenX approach to energy reduces overall carbon footprint by nearly 50%
- For customers struggling to achieve ESG goals, CHP is a mechanism that can jump start customer initiatives
- Coupled with RNG as a generation fuel, CHP can reduce or eliminate carbon footprint due to the negative carbon impact of RNG

** RNG is produced by capturing methane emitted from the breakdown of organic wastes in landfills, wastewater and farms. When methane emissions from these organic sources, which would have otherwise escaped into the environment, are instead captured, processed and converted into natural gas, they receive a credit for having not been released into the environment.



Striving for negative carbon impact



Source : EPA.GOV CHP role in Decarbonization Source : Trilliumenergy.com RNG CarbonImpact paper



NgenX Data Center Solutions Approach

- - Containerised Gas Engine
 - Standby Diesel Generators
 - Automatic Transfer Switch
 - Uninterrupted Power Supply
 - Absorption Chillers
 - Power Chillers
 - Battery Energy Storage Systems
 - Control System
 - Servers/Storage/Network Equipment



NgenX solutions initiate with a detailed understanding and model of your specific requirements. Implementing a multivariate model enables us to fully understand the implications of your operational parameters and design a solution that will provide the energy and resiliency that you r business demands

FINAL REPORT 01.23.2024

FACILITY ENGINEERING AND OPERATIONS ANALYSIS

PANTHEON GROW - MOORESTOWN NJ





NgenX Energy Enlightened

Selected System Type

(Onsite Power) CHP Combined Heat and Power w/ Heat Recovery + Gas Driven Chiller w/ Heat Recovery + Heat Driven Chiller



The NgenX Energy Plant

- For power solutions from 1 to 4 MW, NgenX utilizes a capstone Microturbine configuration to delivery reliable redundant power supply with the capability of recovering heat energy to produce heating or cooling.
- Generation can be fueled by a gas grid connection or stand alone from LPG, LNG or Generated RNG with equivalent effectiveness.
- In most instances, generation costs are at or below grid parity, yet the system provides clean on-site generation for a lower carbon footprint and inherent resiliency of power design with redundancy built into the modular approach.







Generation Technology

- Turbine Solutions from 200Kw to 25MW
- Operates as a single scalable genset
- Resilient redundant design consideration
- Integrated N+ redundancy on both power and thermal
- UL2200 and CE Listed Technologies







Generation Technology (ICE)

- Internal Combustion Engines from 320KW to 25KW
- Operates as a single scalable genset
- Resilient redundant design consideration
- Integrated N+ redundancy on both power and thermal







The NgenX Energy Plant

- For power solutions from greater than 4MW and up to 25 MW NgenX offers the Solar Turbine Solution sized to need or a Jenbacher or Cat ICE offering with fast start as a reliable and redundant power solution
- Coupled with heat recovery similar to the Capstone derived solution, the Solar offering can enable modular solutions scaled to up to 50MW
- In most instances, generation costs are at or below grid parity, yet the system provides clean on-site generation for a lower carbon footprint
- Above 25MW solutions are custom engineered to account for power and thermal requirements







Capable of renewable microgrid integration



Deal Structure





Commercial Investment Agreement



Three Party agreement between NgenX LLC, NgenX Fund and Project LLC for construction of energy project. NgenX LLC received development fee and CM fee during construction



NgenX LLC provides ongoing O&M mgmt. for fee. O&M will be outsourced to technology and strategic service providers under budgeted GP1 Maint. expense



Project LLC enters into EPC and O&M agreement with technology provider and General Contractor. Maintains ongoing LTSA



Permanent Debt construction loan. Agreements in hand prior to EPC agreement execution and ESA





Customer off take agreement (ESA). Typically. 15 or 20 year service agreement to convert gas to electricity with buyout and assignment options and restrictions

Contact us

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