

51-102F3
MATERIAL CHANGE REPORT

Item 1 Name and Address of Company

MGX Renewables Inc. dba Zinc8 Energy Solutions (the "Company")
#1 - 8765 Ash Street
Vancouver, BC V6P 6T3

Item 2 Date of Material Change

February 18, 2020

Item 3 News Release

The news release was disseminated on February 18, 2020 through ACCESSWIRE.

Item 4 Summary of Material Change

The Company announced that it has granted an aggregate of 2,787,951 stock options to its directors, officers, employees and consultants for the purchase of up to 2,787,951 common shares of the Company pursuant to its Stock Option Plan. Each option is exercisable for a period of 5 years at a price of \$0.32 per common share.

Item 5 Full Description of Material Change

5.1 Full Description of Material Change

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See attached new release with respect to the matter described above.

5.2 Disclosure for Restructuring Transactions

N/A

Item 6 Reliance on subsection 7.1(2) or (3) of National Instrument 51-102

N/A

Item 7 Omitted Information

None

Item 8 Executive Officer

Contact: Ron MacDonald, Chief Executive Officer
Telephone: 604.366.5918

Item 9 Date of Report

February 19, 2020



MGX Renewables Inc. DBA Zinc8 Energy Solutions Announces Grant of Stock Options

VANCOUVER, BC / February 18, 2020 / MGX Renewables Inc., DBA Zinc8 Energy Solutions (the "Company") (CSE:MGXR) (FSE:0E9) is pleased to announce that it has granted an aggregate of 2,787,951 stock options to its directors, officers, employees and consultants for the purchase of up to 2,787,951 common shares of the Company pursuant to its Stock Option Plan. Each option is exercisable for a period of 5 years at a price of \$0.32 per common share.

About Zinc8 Energy Solutions

Zinc8 Energy Solutions has assembled an experienced team to execute the development and commercialization of a dependable low-cost zinc-air battery. Zinc-air batteries can be ideal for mass storage systems and offer both environmental and safety benefits. *Zinc8 Energy Solutions* strives to meet the growing need for secure and reliable power.

To watch a short video outlining Zinc8 Energy Solutions' technology, please visit: <https://zinc8energy.com>

More about The Zinc8 Energy Storage System (ESS)

The *Zinc8* ESS is a modular Energy Storage System designed to deliver power in the range 20kW - 50MW with capacity of 8 hours of storage duration or higher. With the advantage of rechargeable zinc-air flow battery technology, the system can be configured to support a wide range of long-duration applications for microgrids and utilities. Since the energy storage capacity of the system is determined only by the size of the zinc storage tank, a very cost-effective and scalable solution now exists as an alternative to the fixed power/energy ratio of the lithium-ion battery.

Technology

The *Zinc8* ESS is based upon unique patented zinc-air battery technology. Energy is stored in the form of zinc particles, similar in size to grains of sand. When the system is delivering power, the zinc particles are combined with oxygen drawn from the surrounding air. When the system is recharging, zinc particles are regenerated, and oxygen is returned to the surrounding air.

Applications

The flexibility of the *Zinc8* ESS enables it to service a wide range of applications. Typical examples include:

- Smoothing energy derived from renewable sources such as wind and solar
- Commercial/Industrial backup replacing diesel generators
- Industrial and grid scale, on-demand power for peak shaving and standby reserves

- Grid-scale services such as alleviating grid congestion, deferring transmission/distribution upgrades, energy trading and arbitrage, and increasing renewable energy penetration.

Architecture

The *Zinc8* ESS is designed according to a modular architecture that enables a wide variety of system configurations to be created from a small number of common subsystems. Each subsystem implements a single element of the technology:

- The Zinc Regeneration Subsystem (ZRS) provides the recharging function
- The Fuel Storage Subsystem (FSS) provides the energy storage function
- The Power Generation Subsystem (PGS) provides the discharging function

To watch a short video outlining *Zinc8*'s technology, please visit: <https://zinc8energy.com>

Contact Information

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