

Enertopia Corporation

(OTCQB: ENRT)

August 2021 Technology Presentation

Disclaimer

This presentation includes forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. Statements which are not historical facts are forward-looking statements. The Company makes forward-looking public statements concerning its expected future financial position, results of operations, cash flows, financing plans, business strategy, products and services, evaluation of mineral projects, mineral recovery technologies, for participation and/or financing, competitive positions, growth opportunities, plans and objectives of management for future operations, including statements that include words such as "anticipate," "if," "believe," "plan," "estimate," "expect," "intend," "may," "could," "should," "will," and other similar expressions that are forward-looking statements. Such forward-looking statements are estimates reflecting the Company's best judgment based upon current information and involve a number of risks and uncertainties, and there can be no assurance that other factors will not affect the accuracy of such forward-looking statements., foreign exchange and other financial markets; changes of the interest rates on borrowings; hedging activities; changes in commodity prices; changes in the investments and ability to finance; litigation; legislation; environmental, judicial, regulatory, political and competitive developments in areas in which Enertopia Corporation operates. The User should refer to the risk disclosures set out in the periodic reports and other disclosure documents filed by Enertopia Corporation from time to time with regulatory authorities. There is no assurance that the Electric Vehicle market will grow by the currently projected numbers or that Li-ion batteries will be the storage platform of choice. There is no assurance that the Company will be successful mineral recovery or clean energy technologies will be economical, and if they are economical will have any positive impact on the Company.

The Enertopia Family of Provisional Patents

Glossary of terms:

Ethylene Propylene Diene Monomer (EPDM)

Photo Voltaic (PV)

Photo Voltaic Thermal (PVT)

Provisional Patent (PP)

- **PP #1 ENERTOPIA HEAT EXTRACTOR**
- Applications where process heat needs to be generated, can be installed behind PV panels or in glazed stand alone PVT panels for process heat
- **PP #2 ENERTOPIA SOLAR BOOSTER**
- Locations around the World where heat stress needs to be reduced on PV systems to increase system performance and longevity, increasing value of Carbon Credits
- **PP # 3 ENERTOPIA NAME PENDING**
- Where water is needed around the World where local climate allows for water making opportunities

ENERTOPIA HEAT EXTRACTOR

Heat Extractor Technology can be used behind the PV panels or in a glazed format on their own to create liquid temperatures in excess of 200 degrees F.

Collecting excess solar energy for process water heating



Enertopia's revolutionary Green Technology involves retrofitting the backside of a solar panel with a heat-dissipative devices made of ethylene propylene diene monomer (EPDM) and other materials.

The EPDM device acts as a membrane underneath the solar panels, creating a closed loop where a cooling medium is piped through the membrane to storage tanks and removes the excess heat and returns cool water back to the panels.

ENERTOPIA HEAT EXTRACTOR

Beta Testing has been on going for residential applications for cooling PV roof top panels and using the waste heat for heating swimming pools.

Monitoring sensors have been installed so the company can confirm the increased PV output and increase water temperature from the loose coupled mega mat system reported by the home owner.

Collecting excess solar energy for process water heating

The Enertopia Glazed HEAT EXTRACTOR can capture heat independently from the solar panels, greatly enhancing the amount of energy available for process applications like mining, agriculture, industry. Below residential application for cooling PV panels and heating swimming pool using unglazed Heat Extractor.

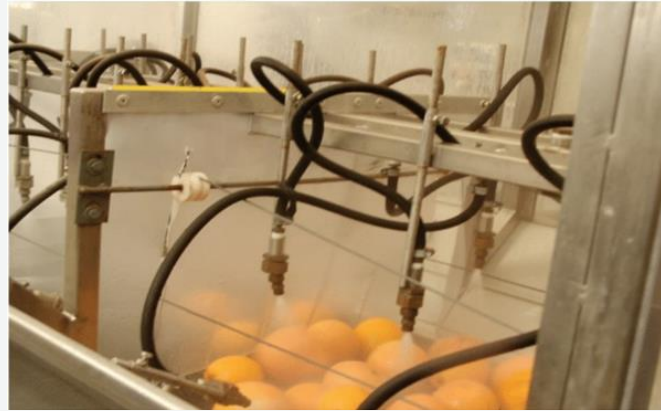


ENERTOPIA HEAT EXTRACTOR

Using the Heat Extractor technology one will be able to provide very hot process water for mining, industrial or agriculture applications to 200 F.

Collecting excess solar energy for process water heating

The ENERTOPIA HEAT EXTRACTOR can independently take heat from the solar panels, greatly enhancing the amount of energy available for process applications a few examples below:



Hot Water Used in Organic Growing for treatment of Citrus Diseases as an alternative to Ethyl Bromide

Hot water used in cleaning Cans



ENERTOPIA SOLAR BOOSTER

Key advantages using Enertopia Solar Booster:

Reduced heat stress on PV panels allowing for increased PV output and increased longevity.

Monitoring equipment has been installed on the MW array for base line data before the installation of the Solar Booster.

3rd party engineering baseline data review to be completed before end of calendar Q3, 2021.

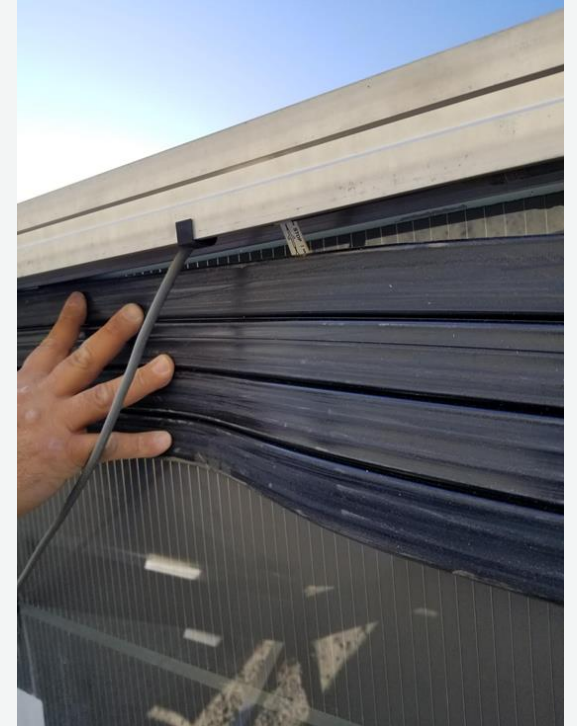
Solar booster testing before yearend 2021

Objective validate increased PV output and longevity and

Quantify increased value of
Carbon Credits for future sale

Cooling PV panels for increasing PV output and life extension

The Enertopia Solar Booster captures heat from the solar panels, increasing PV output enhancing production and increasing the lifetime of the PV panels.



In order to couple the panel to the EDPM rubber device and not shock the panel or break the glass, Enertopia has developed a breakthrough technology that acts like a diode only allowing heat to go one way on the back of the panel

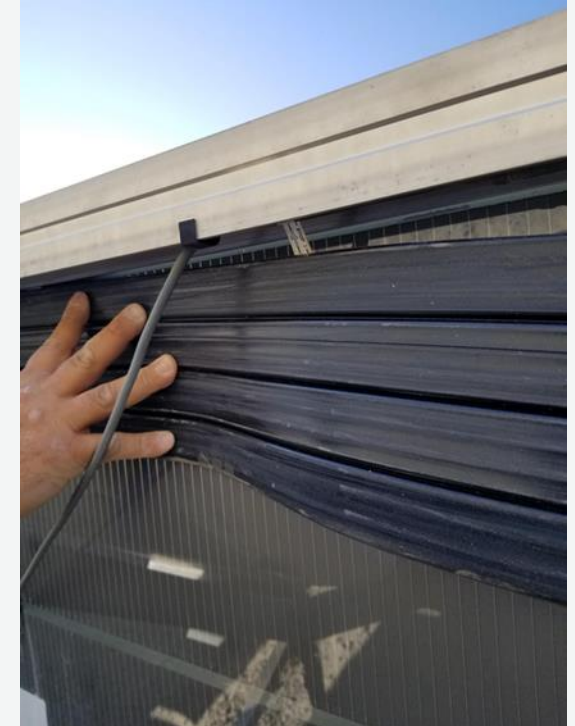
ENERTOPIA PP # 3

By cooling the backside of the PV panels below the dew point we can literally make it rain as the atmospheric moisture condenses on the back side of the panel and drips as rain into the tray collecting the water.

Our analysis shows that depending on time and place during the year key locations in the world Are capable of producing 2.45 gallons to over 4 gallons of water per hour per 80" x 40" PV panel during peak atmospheric conditions.

Capturing Atmospheric Moisture

The Enertopia PP#3 can cool the PV panels down and capture atmospheric moisture and capture it as water.



In order to couple the panel to the EDPM rubber device and not shock the panel or break the glass, Enertopia has developed a breakthrough technology that acts similar to a diode only allowing heat to go one way on the back of the panel

ENERTOPIA PP # 3

Case Study #1

Lithium claystone mining Tonopah / Clayton Valley, NV area.

30 MW PV array could potentially produce up to 163,980 gallons of water per hour at night under peak operating conditions.

Collecting excess solar energy for making water at night

The Enertopia PP #3 could Collect more PV during the day and make water at night. How much water you ask at night? Good question based on a one MW PV array 5,466 gallons of water per hour when the system is operating at maximum efficiency assuming PV panel size of 80" x 40".



Looking north across the Enertopia Clayton Valley Lithium project. Lithium exposed claystone at surface light color.



ENERTOPIA PP # 3

Case Study #2

Water purification Antofagasta, Chile.

30 MW PV array could produce up to 160,650 gallons of water per hour at night under peak operating conditions.

Using excess solar energy for making drinkable water

The Enertopia PP #3 could Collect more PV during the day and make water at night. How much water you ask at night? Good question based on a small one MW PV array 1,500 to 3,000 gallons of water per hour when the system is operating at maximum efficiency depending on location.



Skyline of Antofagasta Chile left made possible by desalination plants below.



ENERTOPIA PP # 3

Case Study #3

Water Purification / ABU Dhabi, UAE.

30 MW PV array could produce up to 311,280 gallons of water per hour at night under peak operating conditions.

Current TAM in desalination space only, \$17.7 billion in 2020 alone.

Collecting excess solar energy for making drinkable water

The Enertopia PP #3 could Collect more PV during the day and make water at night. How much water you ask at night? Good question based on a small one MW PV array 1,500 to 3,000 gallons of water per hour when the system is operating at maximum efficiency.



Skyline of Abu Dhabi left made possible by desalination plants below.



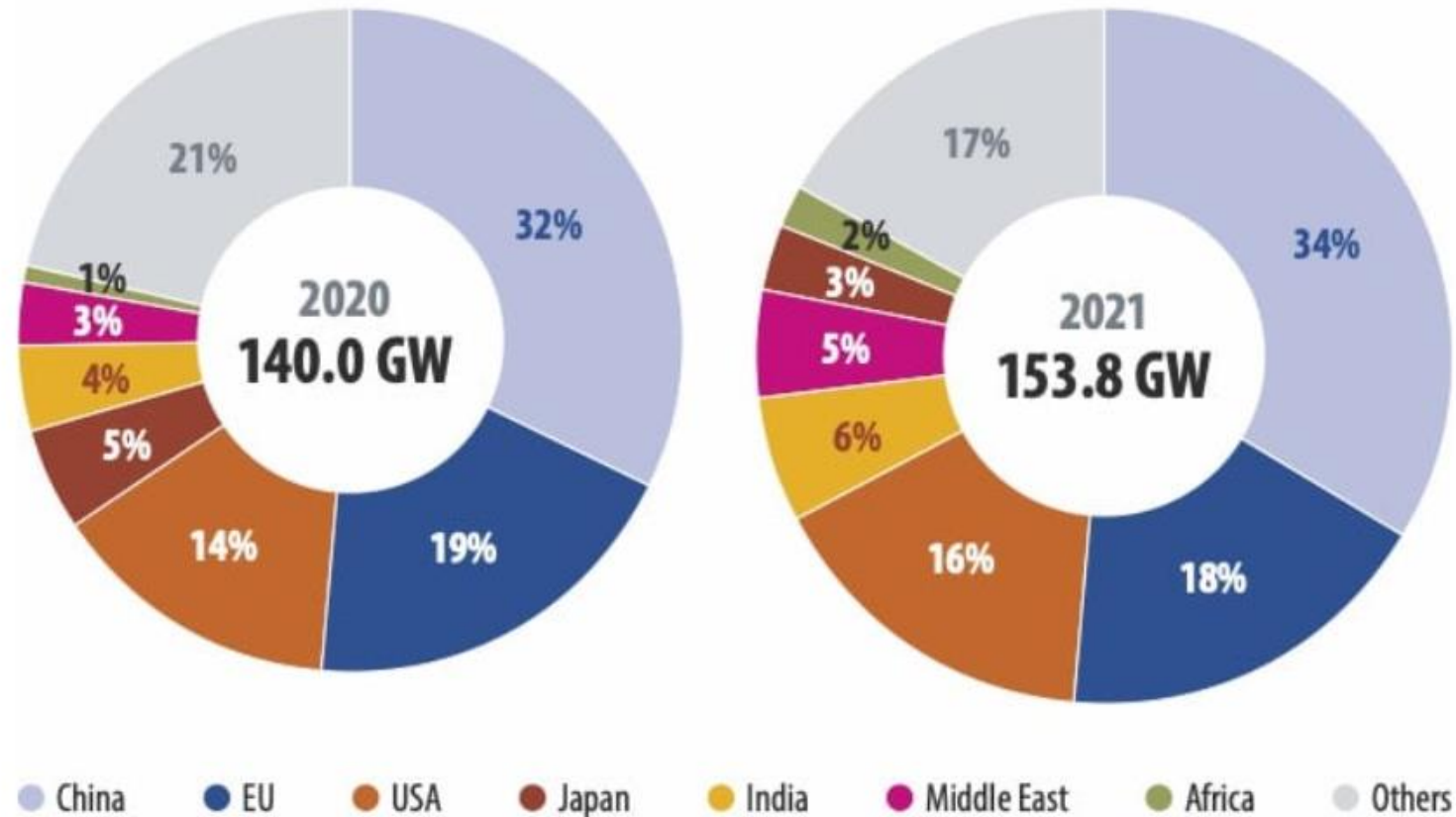
Current World Solar PV demand

It took the World over 40yrs to reach total installed capacity of 140GW.

Now we have reached the point of adding this number every year!

Module demand forecast for 2020 and 2021

Source: PV InfoLink



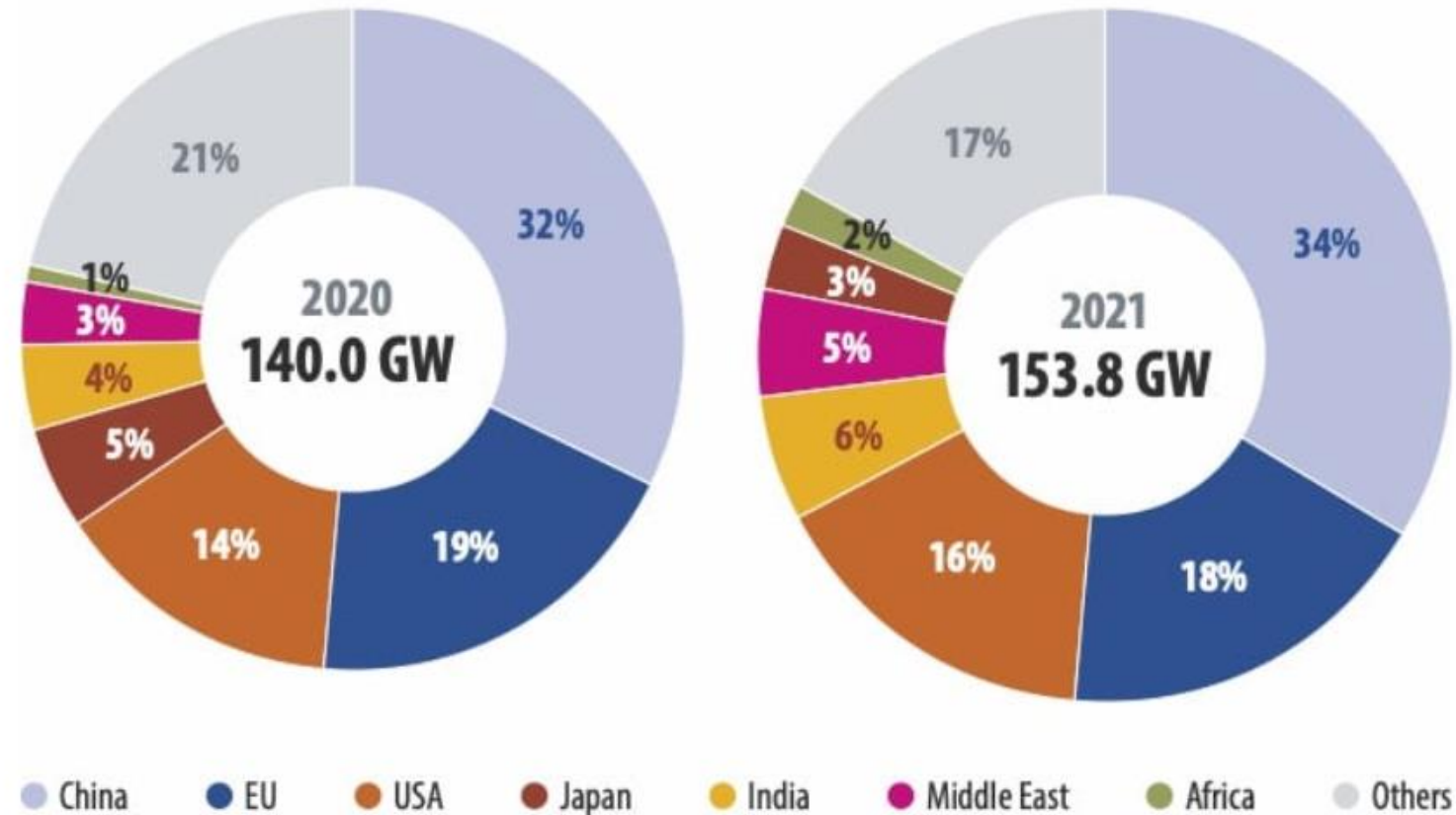
Source: PV-magazine.com

Current World Solar PV demand

What if only 1% of new PV was installed with the Enertopia Solar Booster technology it could add 1.5GW of PV power per hour of peak daylight service.

Module demand forecast for 2020 and 2021

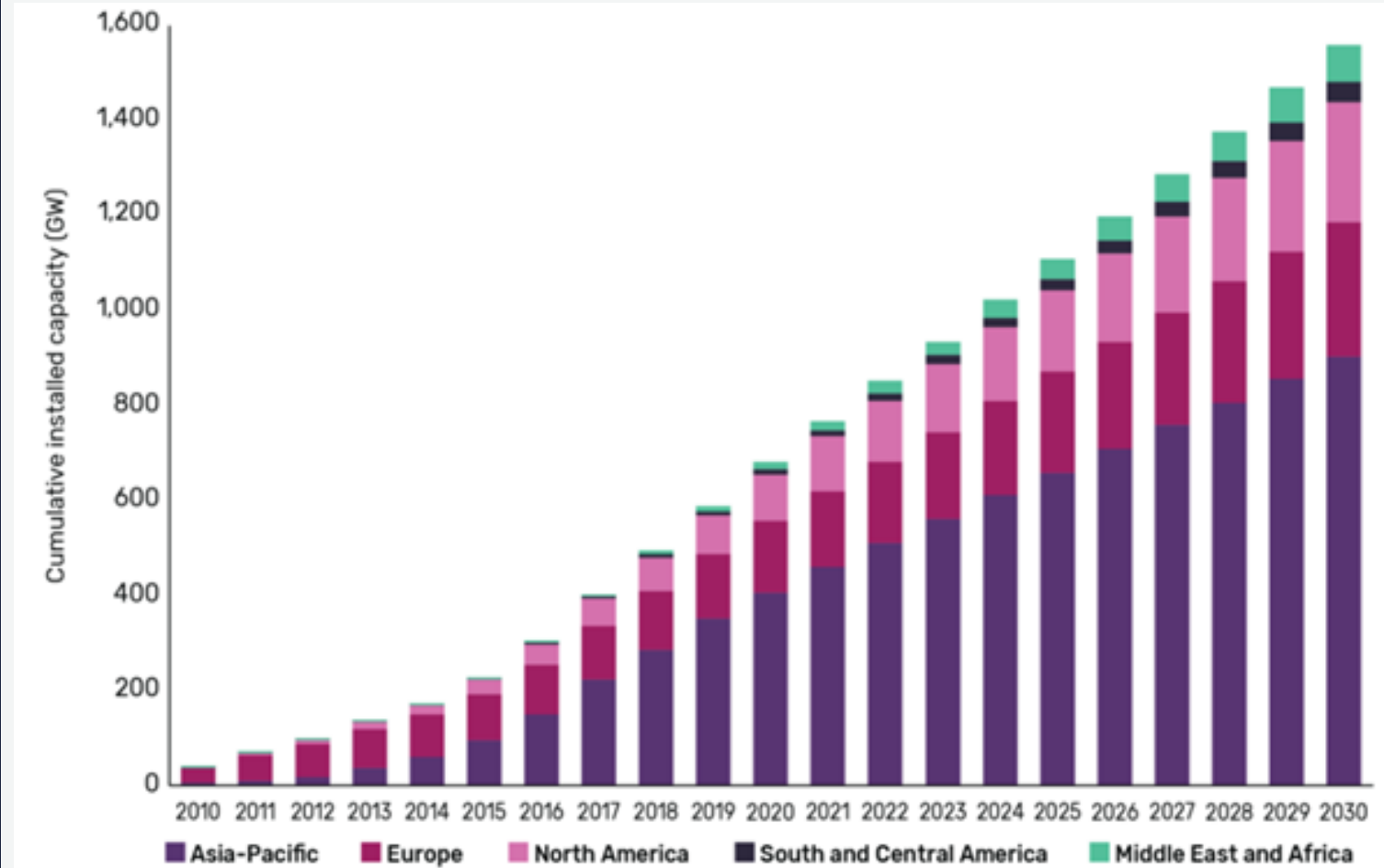
Source: PV InfoLink



Source: PV-magazine.com

World estimated Cumulative Installed Solar PV 2010 - 2030

What would a 1% retro fit
do for World PV
production and value
creation from Carbon
Credits!



Source: Researchgate.net

KEY TAKEAWAYS

Enertopia Heat Extractor

- Higher output than other technologies
- Raises PV and thermal energy production
- Extends PV Module life
- Universal Design to interface with other technologies

KEY TAKEAWAYS

Enertopia Solar Booster

- Lowers the potential for loss of PV output due to panel overheating
- Lowers estimated cost of annual maintenance
- Raises PV System Output
- Extends PV Module Life
- Potential increased Carbon Credits

KEY TAKEAWAYS

On August 17th 2021
Enertopia announced the
filing of its third
provisional patent (Solar
PV Water Extraction
Technology) on capturing
atmospheric moisture
from PV modules

Key Takeaways from Provisional Patent Application #3

- Creates a safe method with close couple to solar PV modules to extract water from the atmosphere
- Dual use system raises PV production during the day
- Allows for water production at night in many locations around the world
- Extends PV Module life
- Universal Design to interface with other technologies

Clean Energy Consultants

Mark Snyder: Solar expert, professional inventor, forensic electrical expert, master electrician, biogas waste to energy, recycling expert, and organic farming expert 42yrs in the fields of solar PV, Thermal, heat recovery, water pumping, sustainable agriculture and water management.

Al Rich: Inventor of the original megamat and inventor on provisional patent application number 1. Al has over 35 yrs in the solar thermal industry using solar heat recovery technology.

Barry Brooks: Mechanical Engineer, inventor on provisional patent application number 2. Barry has over 50 years of engineering experience has developed dozens of energy efficient products & ventilation methods for commercial applications.

Management

President, CEO and Director: Robert McAllister

Mr. McAllister has served as President of Enertopia since November 2007 and as a Director since April 2008. Mr. McAllister was responsible for Investor Relations and Corporate Communications for publicly traded mining and oil & gas listed companies. Mr. McAllister has also provided and written business and investment articles from 1996 to 2006 in various North American publications focused on oil & gas and mining companies.

President's Message



Photo of original mega mat proto type

“We are very excited to have been able to file three provisional patents in the span of a few months. We believe this will unlock a new era of circular clean energy and water production for mining, industry, agriculture, and personnel use in many parts of the world. ”

Stated President Robert McAllister
August 17, 2021

CONTACT INFORMATION

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V1Y 4R2

Share structure

Share Structure	August 2021
Issued and Outstanding	139,071,700
Warrants	12,196,869
Options	10,076,776
Fully Diluted	161,345,345

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