

# Enertopia Corporation

## January 2025 Technology Presentation





# Disclaimer

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# Enertopia Family of Patents & Patent Applications

- **ENERGY MANAGEMENT SYSTEM**

- Patent # 12149091 Date of issuance, November 19, 2024
- System can Capture and Track current, voltage, temperature, pressure, or flow data from any AC or DC system in real time. We are calling it CapNTrack, short for Capture and Track Data

- **ENERTOPIA RAINMAKER**

- Claims allowance phase of patent pending
- Our analysis shows that depending on time and place during the year key locations in the world are potentially capable of producing between 2.45 gallons to 4 gallons of water per hour per 80" x 40" PV panel during peak atmospheric conditions.

- **HEAT RECOVERY SYSTEM**

- Claims allowance phase of patent pending
- Locations around the World where heat stress needs to be reduced on PV systems to increase system performance and longevity, increasing the life of Carbon Credit streams.

# ENERGY MANAGEMENT SYSTEM

- Energy Management System (EMS) with some the following capabilities:
  - Monitor current, voltage, wattage
  - Monitor Temp, Humidity
  - Monitor any 3<sup>rd</sup> party sensor
  - Monitor of Monitors
- Patent 12149091 issued on November 19<sup>th</sup> 2024



**The EMS during real time testing phase.**

# ENERTOPIA RAINMAKER

- Patent Pending
- Analysis shows that depending on time and place during the year, key locations in the world are capable of producing between 2.45 gallons - 4 gallons of water per hour for each 80" x 40" PV panel during peak atmospheric conditions.
- 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 Rainmaker has the potential to collect more PV during the day, while also making water at night.
- Based on a 1 MW PV array, the RAINMAKER system has the potential to create as much as 5,446 gallons of water per hour when the system is operating at maximum atmospheric efficiency, assuming a PV panel size of 80" x 40".





# ENERTOPIA HEAT EXTRACTOR

- Key advantages using Enertopia Heat Extractor:

- Captures heat from the solar panels; increasing PV output, enhancing production, and improving the lifetime of the PV panels.
- Reduced heat stress on PV panels allowing for increased PV output and increased longevity.
- Potential increased PV output and longevity.
- Potential increased value of Carbon Credits stream for future sale.

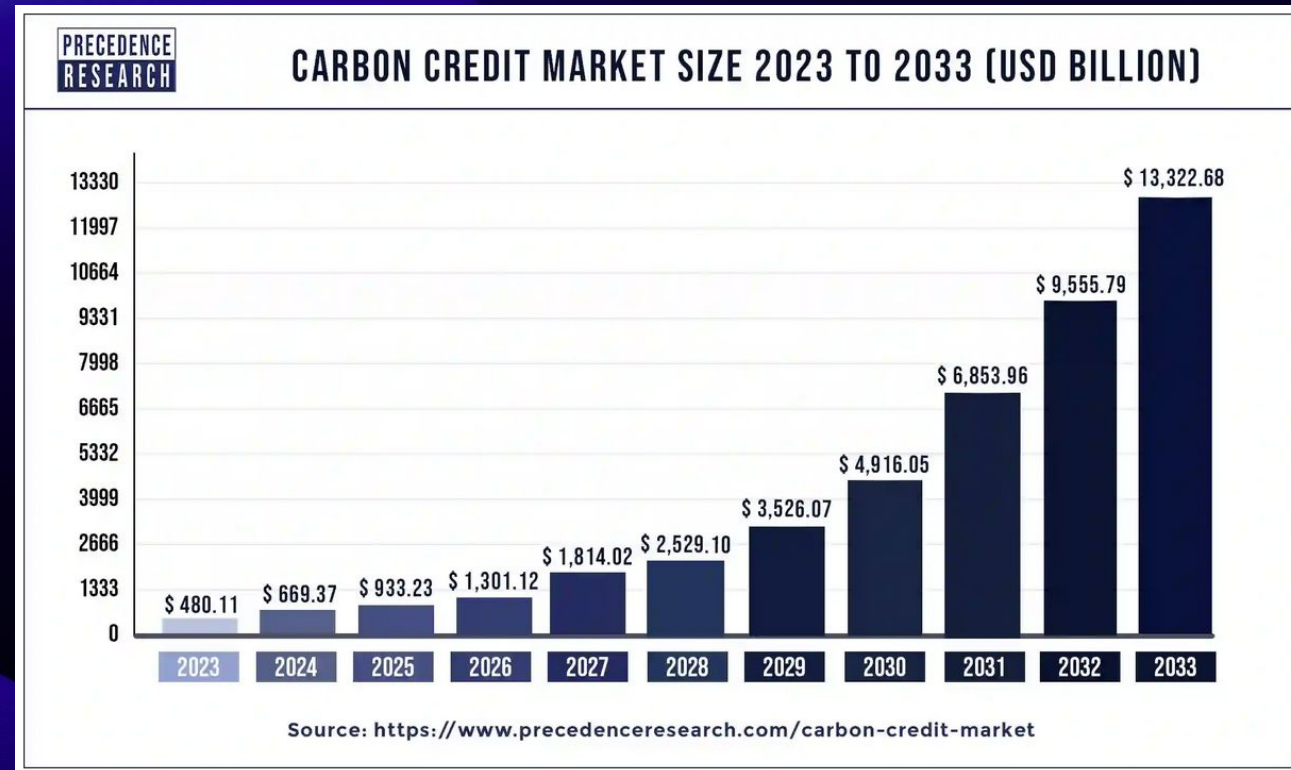
**Cools PV panels for increased PV output and life extension**



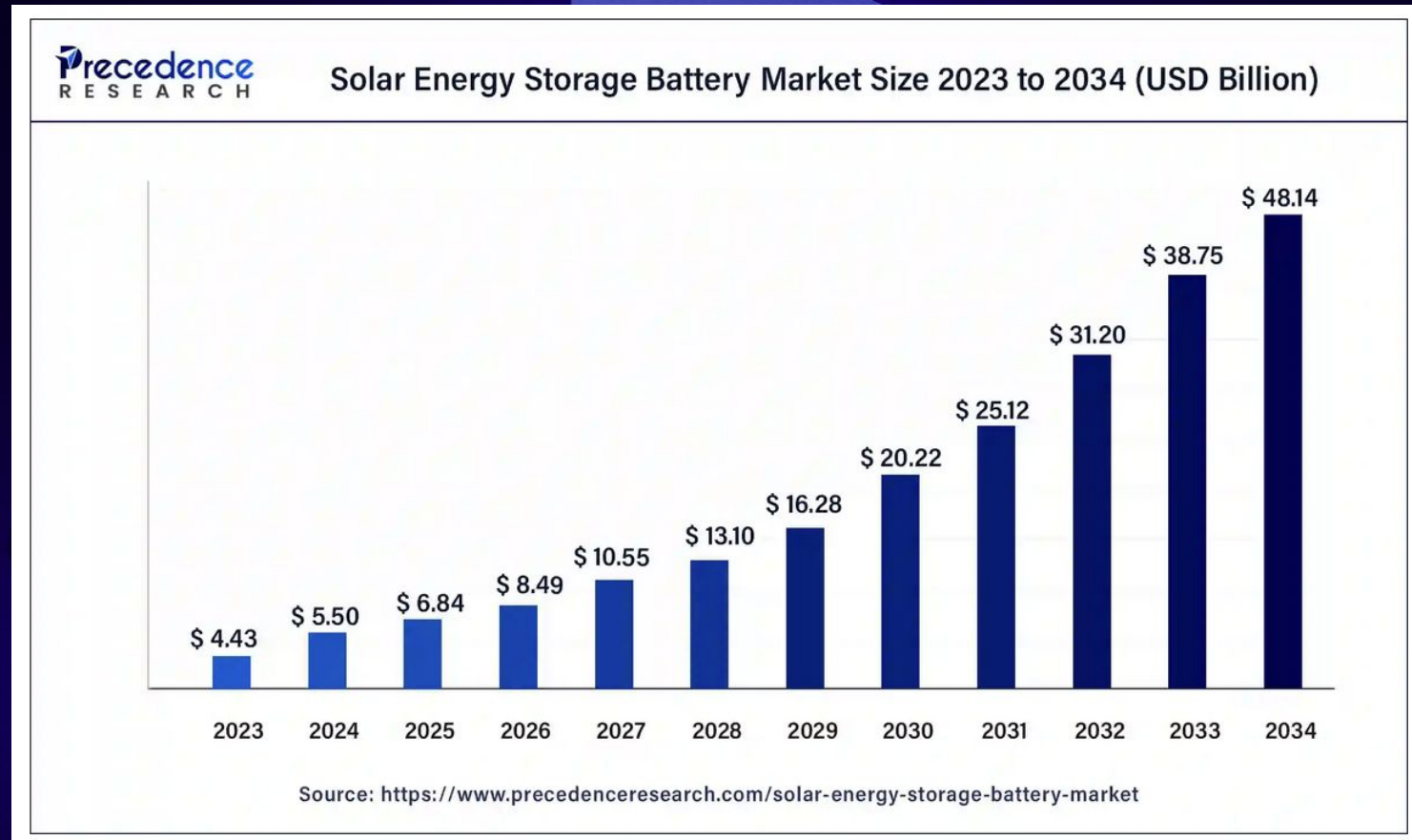
# What would a 1% retro fit do for World PV production and value creation from Carbon Credits!

The global carbon credit market is expected to grow rapidly in the coming years:

- **2023:** The carbon credit market was valued at \$479.41 billion in 2023.
- **2024:** Expected to reach \$669.37 billion in 2024.
- **2028:** Expected to reach \$1.6 trillion by 2028.
- **2033:** Expected to reach \$13.3 trillion by 2033.

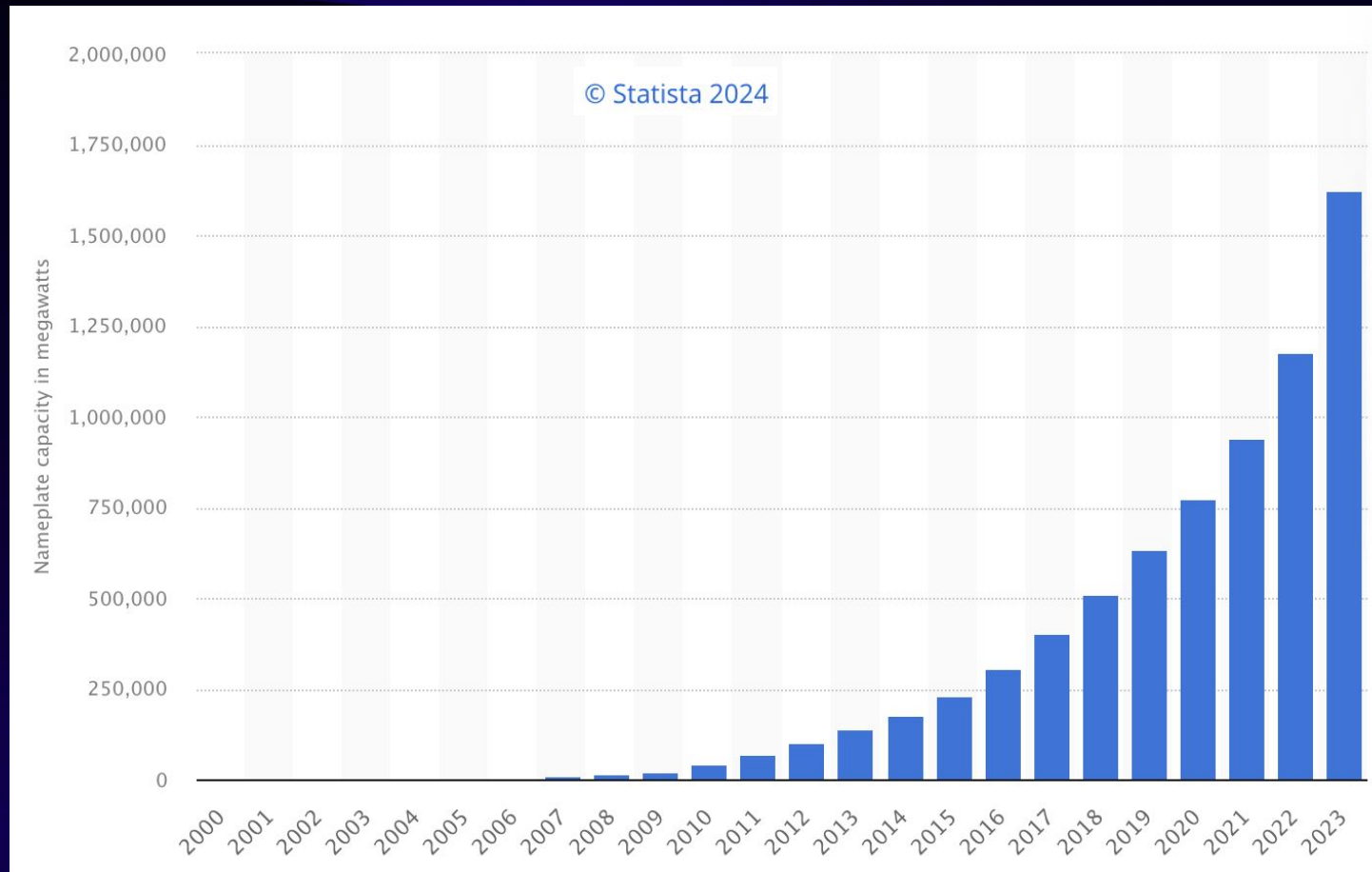


- The global solar energy storage battery market is expected to grow from \$4.43 billion in 2023 to \$48.14 billion by 2034. This represents a compound annual growth rate (CAGR) of over 24.22%



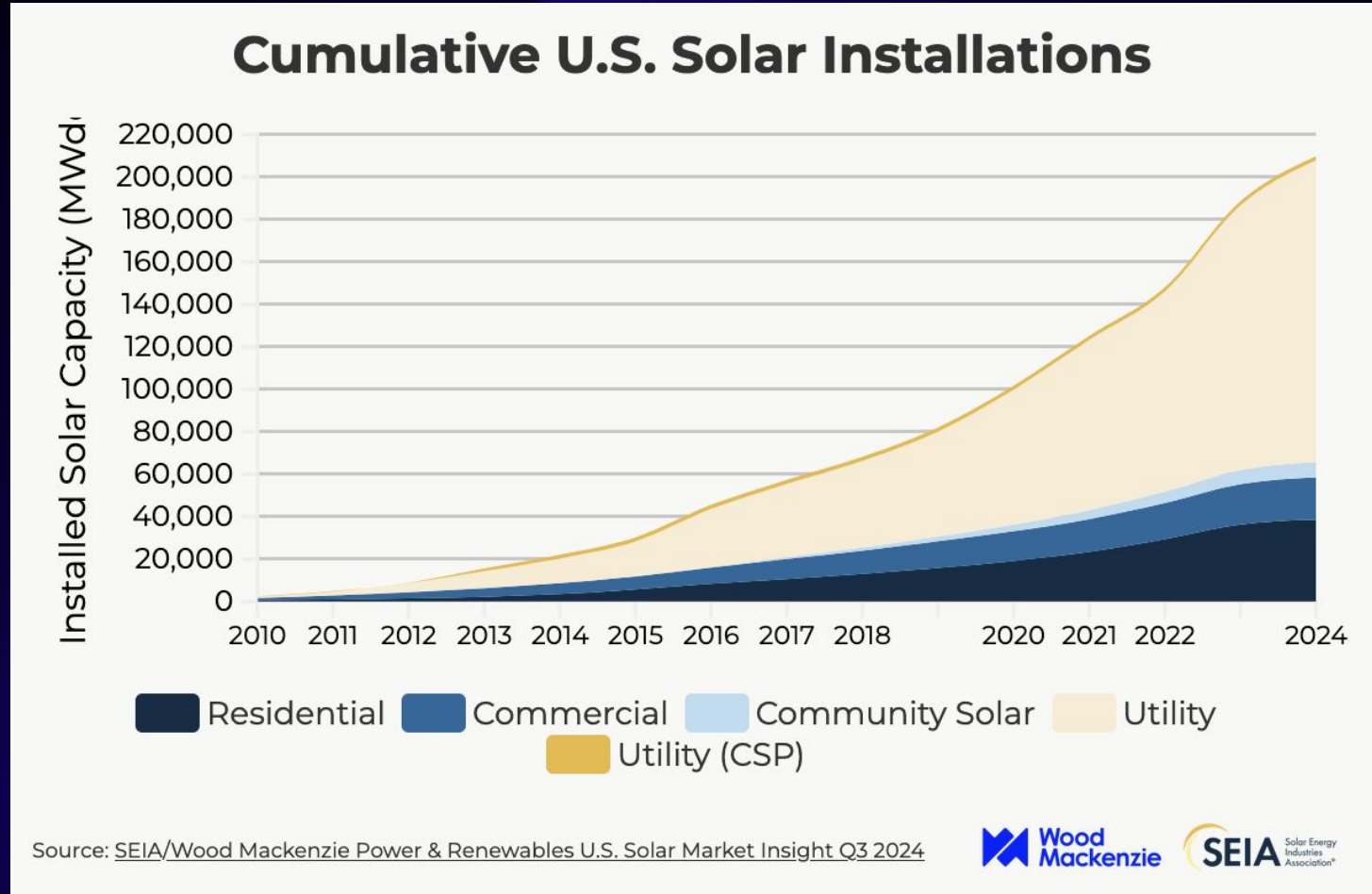


- Global Solar capacity just surpassed two Terrawatts of global installed PV
- It took 68 years to reach 1 TW of installed capacity (1954-2022)
- Only two years were needed to add the next TW, from 2022 to 2024

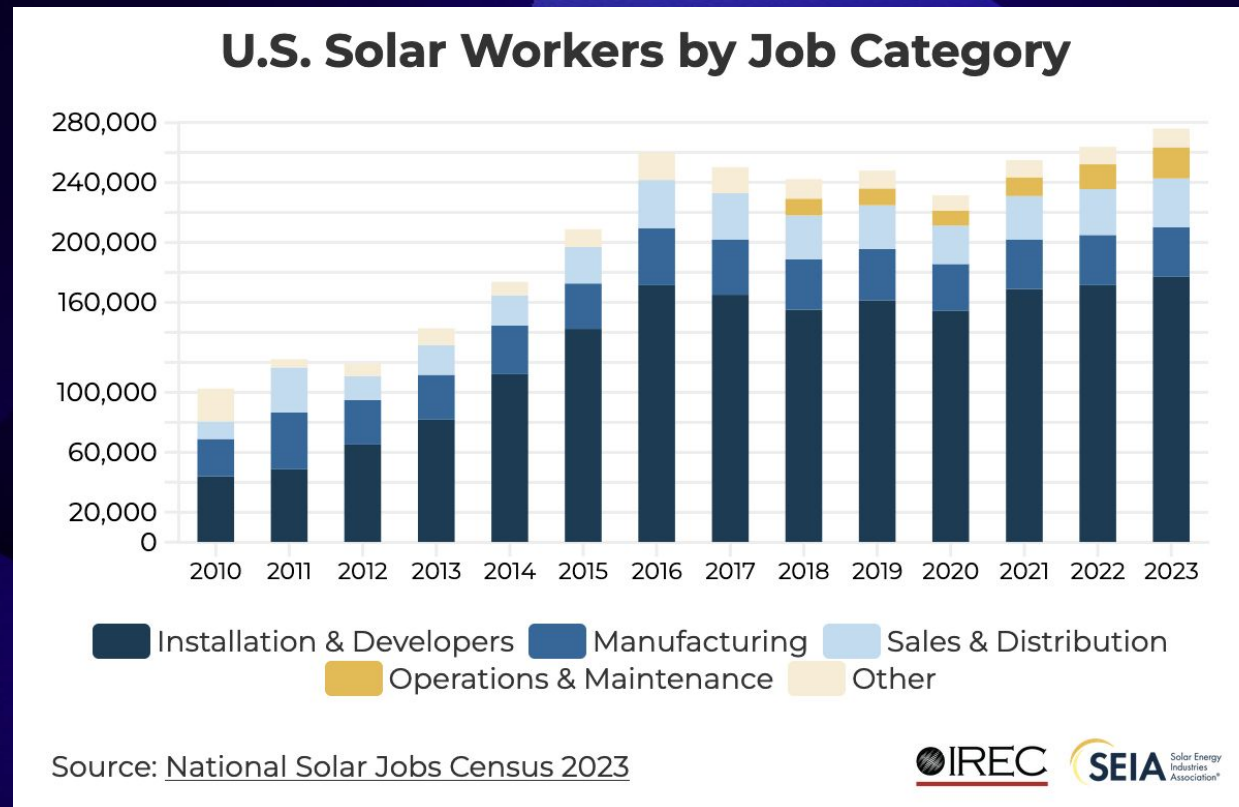


Cumulative installed solar PV capacity worldwide from 2000 to 2023

- There are now nearly 210 gigawatts (GW) of solar capacity installed in the United States
- The SEIA predicts that the US will have 673 GW of solar capacity by 2034
- In 2023, the US generated 238 terawatt-hours (TWh) of electricity from solar



- As of 2023, nearly 280,000 Americans work in solar at more than 10,000 companies in every U.S. state. In 2023, the solar industry generated over \$60 billion of private investment in the American economy.
- Renewable energy jobs now comprise more than 40 percent of the country's **8.35 million people** employed in the energy industry
- An estimated 4.9 million people worldwide work in the solar industry





# Clean Energy Consultants

- **Mark Snyder:**

- Solar expert, professional inventor, forensic electrical expert, master electrician, pv thermal expert, battery expert, inverter expert , 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.

- **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.

- CFO: Allan Spissinger

- Mr. Spissinger worked within the Informational Technologies (IT) sector for over a decade; specializing in corporate IT infrastructure and software development projects. Mr. Spissinger joined the audit and assurance department at PricewaterhouseCoopers (PwC) where he obtained his Chartered Professional Accountant (CPA) designation focusing on financial reporting and Sarbanes-Oxley (SOX) compliance in the following sectors: resources, manufacturing and technologies. Mr. Spissinger's positive mentorship, excellent communication and extensive leadership skills have enabled him to successfully manage a variety of private and public businesses for over 20 years.

# Board of Directors

- Director: Kevin Brown

- Mr. Brown brings over 18 years of diversified financial and business management experience in private companies, covering the high-tech, mining, and the health and wellness industries.

- 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.

- Director: John Nelson

- Mr. Nelson has over 38 years of resource industry experience in geology and geophysics. He served as an exploration geologist and project manager in numerous worldwide frontier areas for Mobil Oil Corp before moving to Canada in 1993. Mr Nelson has been a founder, Director and senior officer of a number of private and public companies related to oil and gas and mineral exploration. He holds B.Sc. and M.Sc. Degree's in geology from Michigan State University and is a member of AAPG former APEGGA member.



# President's Message

"Enertopia expects to hear back from the USPTO in the coming months on further patent approvals, and we look forward to the next steps of solving real world problems and expect to announce the next steps with our Energy Management System patent in due course."

- President Robert McAllister November, 2024

# CONTACT INFORMATION

- President & CEO Robert McAllister
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  - Kelowna, BC
  - V1Y 4R2

## Share structure

| Share Structure        | June 2023        |
|------------------------|------------------|
| Issued and Outstanding | 7,759,394        |
| Warrants               | 0                |
| Options                | 407,500          |
| <b>Fully Diluted</b>   | <b>8,166,894</b> |

Ticker: ENRT