



Ion Power Group
The Sun's Electricity
Harvested Day & Night

Ion Power Group LLC

Tapping into the Sun-powered Global Electric Circuit to Economically Power the World's Electricity, Hydrogen, Water Production as low as **\$10 per MWh** while cutting **CO2 emissions by 1.38 Billion Metric Tons Annually**

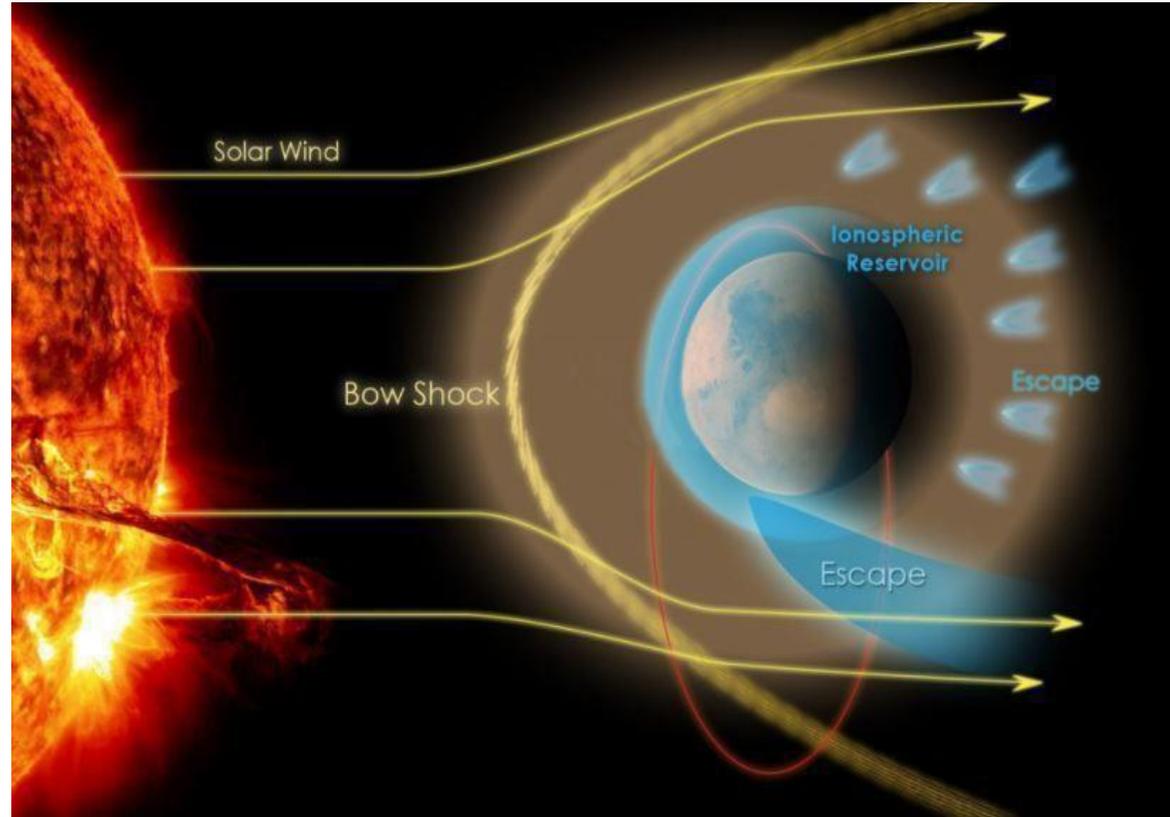
Contact Professor Perparim Alikaj PhD

business@ionpowergroup.com



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The Global Electric Circuit



[Duration 1:33 min](#)





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The Problem

The need for abundant and cheaper energy has never been more critical. Energy is expensive and some options produce CO₂ pollution.

Humanity already spends more than US\$2 trillion per year producing energy that is not only expensive but also harmful to people and the environment.

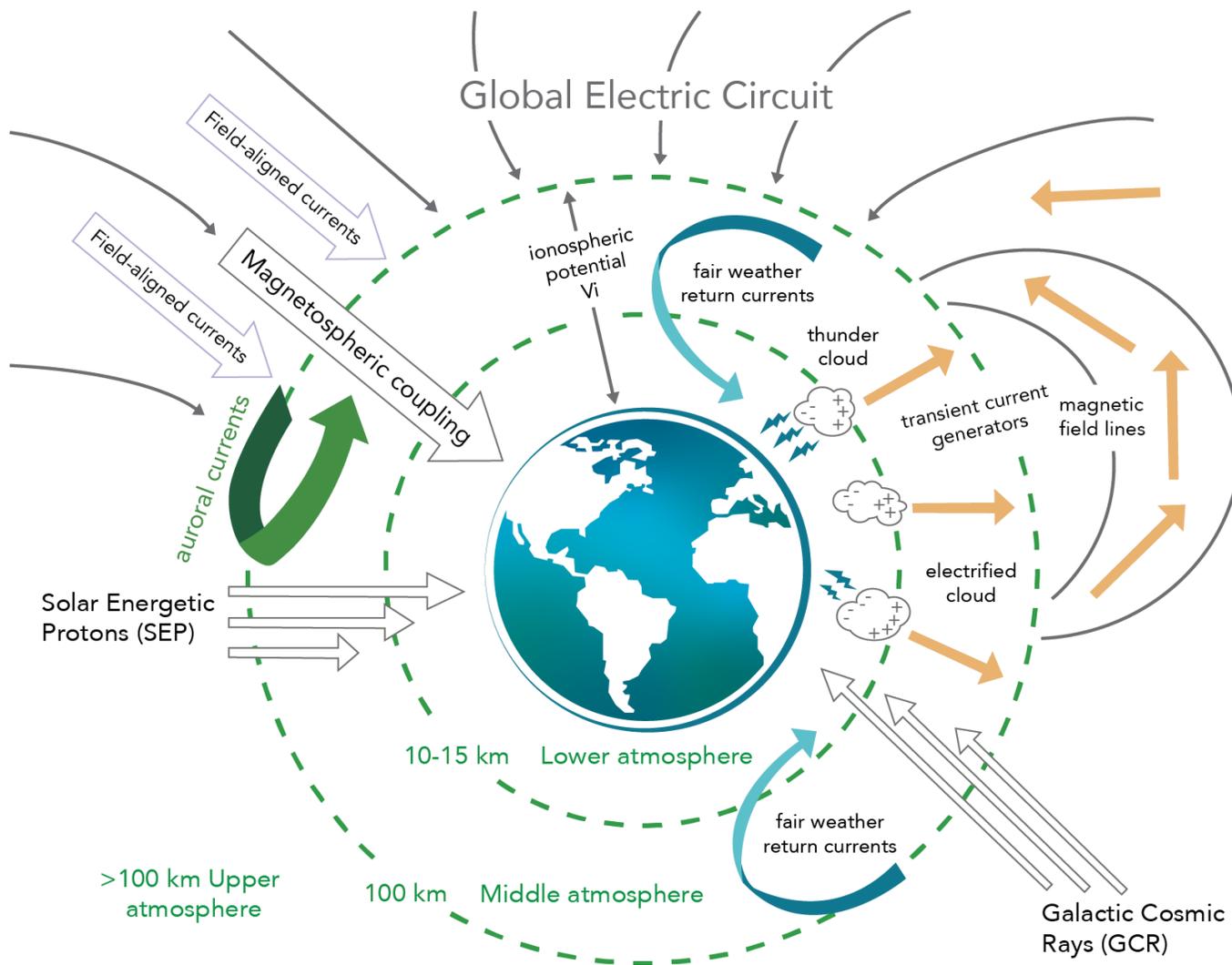
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From Sun to Earth—Ion Power for Energy Generation 24/7/365, Everywhere



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The **Sun** constantly bombards the Earth with **Quadrillions of Watts** of energy powering an electric dynamo known as the **Global Electric Circuit**, producing trillions of atmospheric ions day & night in all weather



NIGHT and Day Electricity Generation



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When Sci-Fi Becomes Reality

Imagine a future in which humanity can generate electricity continuously day and NIGHT by tapping into the Earth's permanent Sun-powered **Global Electric Circuit.**

Day & Night
Multi-weather
Electricity, Water, and
Hydrogen generation

GREEN - CLEAN



**Click to see
How Ion Power Works**

That future is here, and **Ion Power Group's** Technical Readiness Level (TRL) tests, as defined by NASA and the Department of Energy, have demonstrated and validated the physics and science behind its patented **Ion Power technology – Ion Harvesting**, which taps into this inexhaustible source of natural electricity day and NIGHT, and even more so during stormy weather.



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The Solution

A radical patented solar-power breakthrough pioneered and proven by Ion Power Group has successfully demonstrated (TRL4) the ability to generate clean, green, renewable electricity—predicted to cost as little as **US\$10 per MWh**.

Recognized by Mississippi State University, NASA iTech, FORBES, and others.

Ion Power Group's Ion Harvesting Technology is not just a game-changer, it's a planet-saver!

Mississippi State University

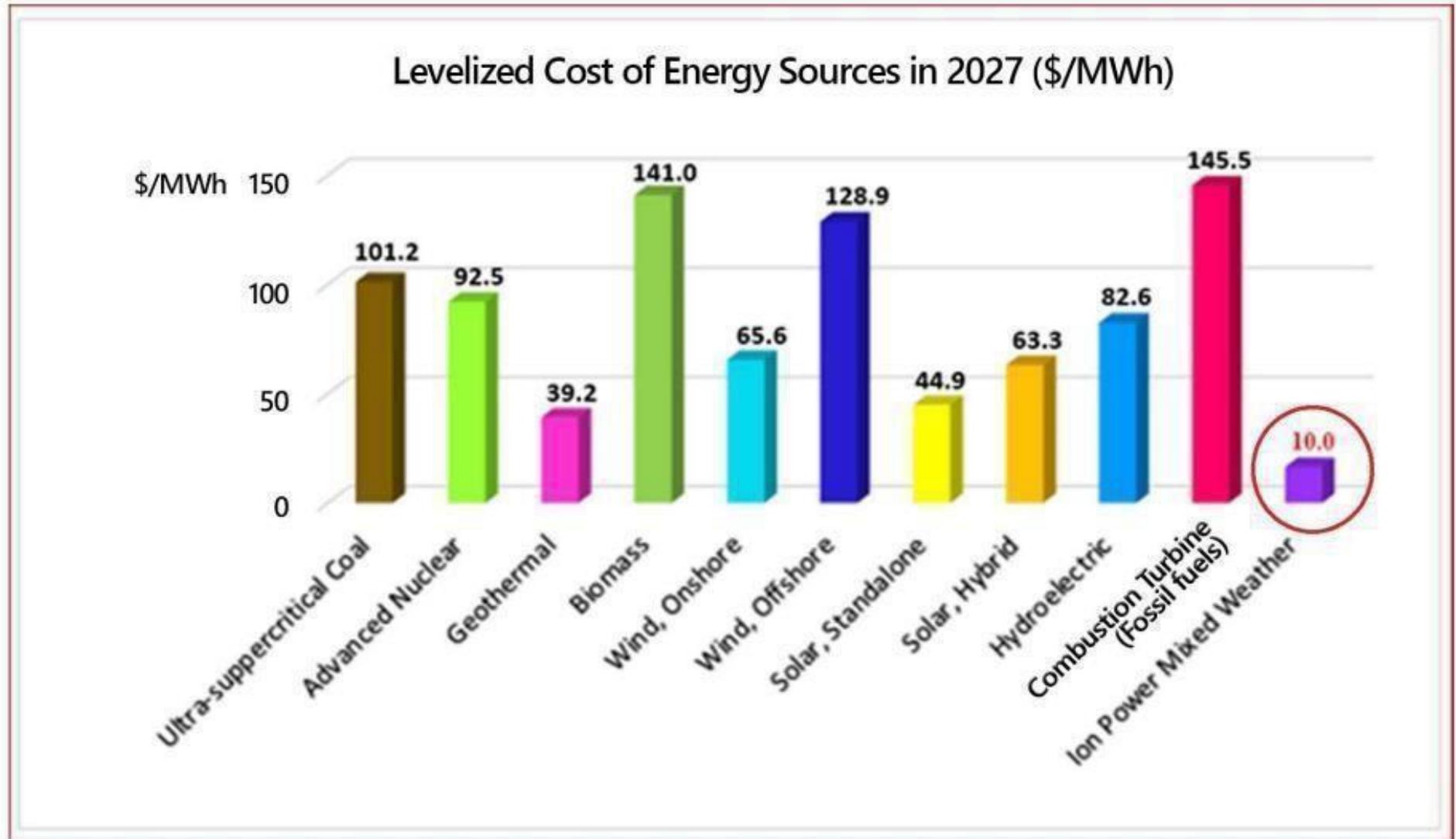


Forbes

Ion Power is predicted to be the cheapest form of energy ever produced



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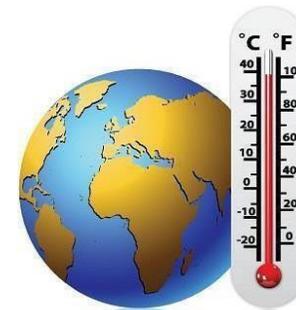


COMPARISONS ARE BASED ON THE ALIKAJ MATHEMATICAL MODEL
FOR MEASURING ATMOSPHERIC ELECTRICITY HARVESTING
Professor Perparim Alikaj, Nov 8th 2023, see report [HERE](#)

Energy to Help Governments Meet Sustainability Goals



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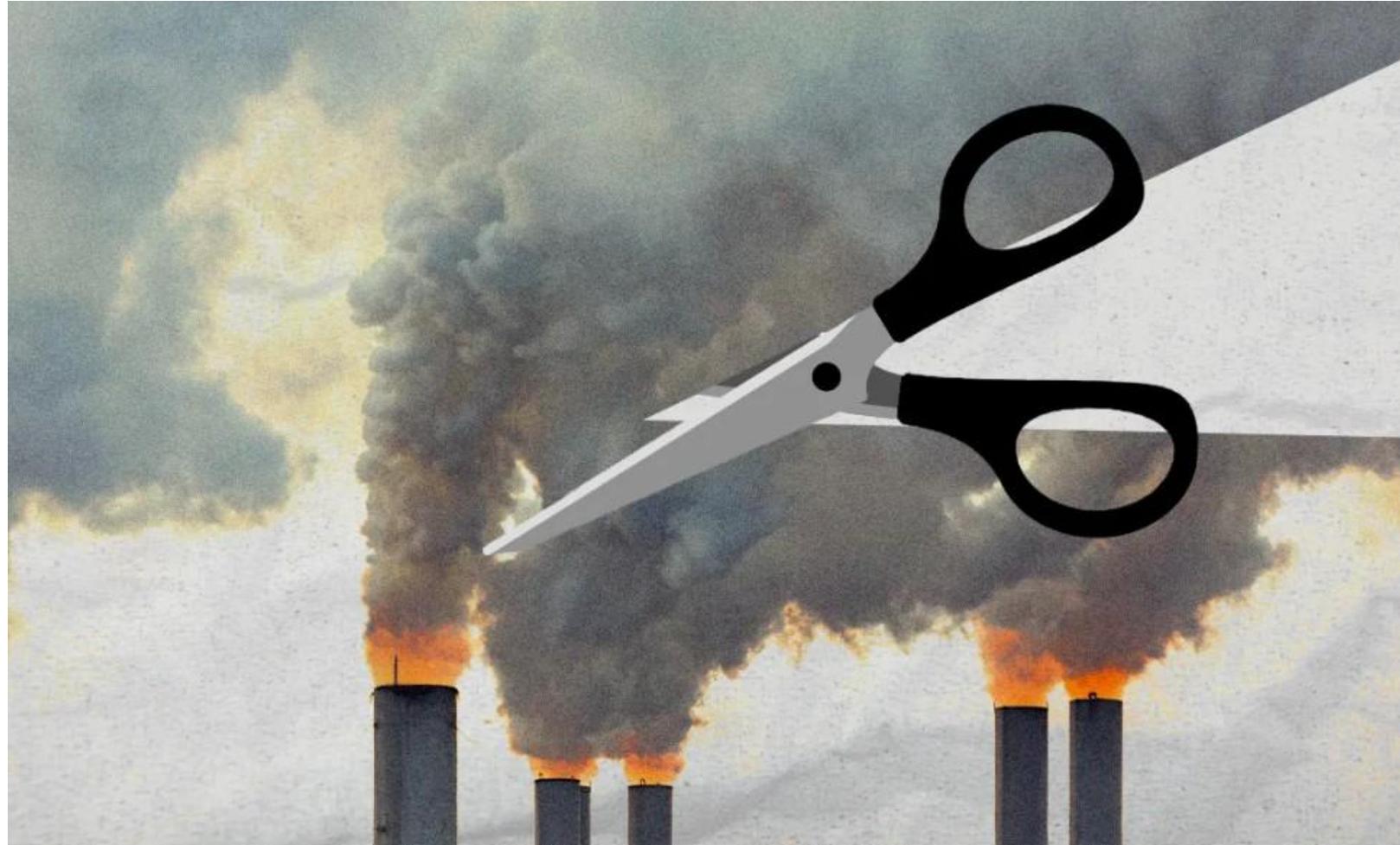
Affordable and Clean Energy – Electricity, Clean Water, and Hydrogen Gas



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Cut CO2 Emission up to 1.38 Billion Metric Tons Yearly



By Ion Power replacing 10% of global fossil-fuel-based electricity

Low-Cost Electricity for AI & Data Centers (day & night)



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Electricity



WATER

Ion Power for stand-alone EV and Hydrogen Vehicle Charging Stations (plus water generation)



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Electricity



WATER



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Ion Power for Water Production by Dehumidifying Air and Saltwater Desalination

Ion Power electricity can be used to power systems that produce water from the desalination of saltwater or dehumidification of air, making water more affordable for **permanent installations** and for use in ***disaster relief efforts***.



Electricity



WATER



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Rapid Restoration of Electricity, Water, and Hydrogen to Disaster Areas including immediately after Storms, Solar Flares, and **EMP attacks**

Deployable by land, air, or sea—clean, renewable electricity flows as soon as a power-producing aerostat achieves sufficient altitude.



Electricity



Ion Power Energy for Space Exploration

Ion Power Group's Ion-Harvesting Technology can support the objectives of NASA, SpaceX, and other space organizations and space-focused countries.



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Ion Power can produce electricity not only on Earth, but on Mars and other planetary bodies with an atmosphere, including Venus, Jupiter, Saturn, Uranus, Neptune, Pluto, Titan, and Triton.



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Ion Harvesting Technology vs Solar Power

	Ion Power	Solar
Harvests Energy during the Day	YES	YES
Harvests Energy during the Night	YES	NO
Harvests Energy during Rainstorms	YES	NO
Harvests Energy during Sandstorms	YES	NO
Harvests Energy Around the Clock	YES	NO
Harvests Energy in Virtually All Weather	YES	NO
Operates Anywhere around the World	YES	NO
Harnesses the Global Electric Circuit	YES	NO



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Land Usage for 1GW Power Plant



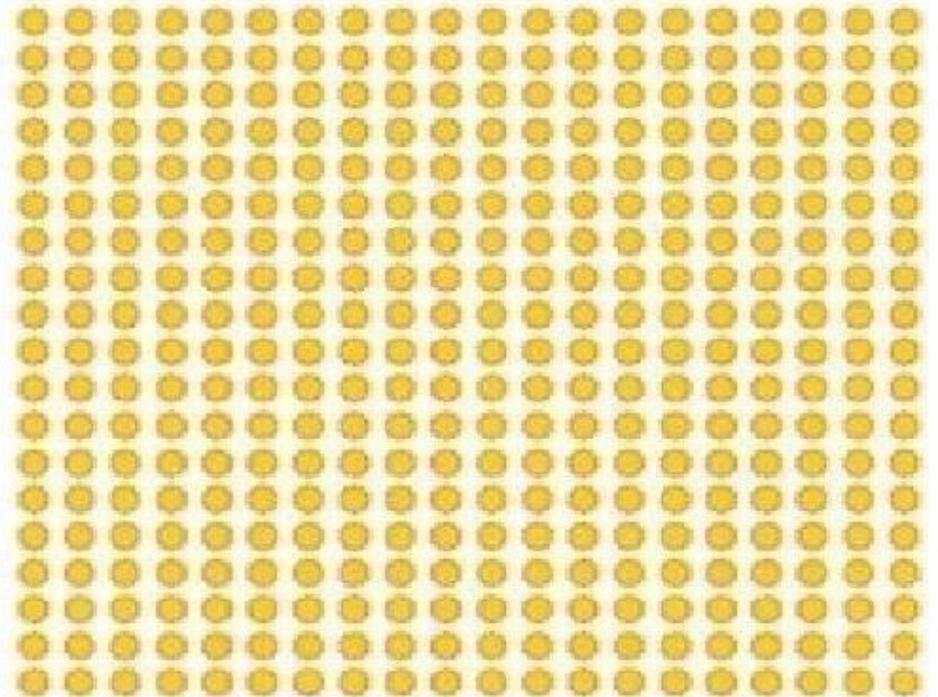
Ion Power

0.207 sqmi with capacity
factor of 0.99



Nuclear

1.3 sqmi with capacity
factor of 0.927



Standard Solar

380 sqmi with capacity
factor of 0.244



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Target Users Include

- **Power supply for AI (artificial intelligence)**
- **Governments (national, regional, municipal)**
- **Power & Utility Companies & Conglomerates**
- **Hydrogen Producers**
- **AI and Data Center Industries**
- **Bitcoin Mining Industry**
- **Water Desalination & Dehumidifying Industries**
- **Humanitarian Relief Organizations**
- **Transportation and Automotive Industries**
- **Aerospace Industry**
- **Remote Scientific and Military Applications**
- **Customers Seeking Use of Low-Cost Renewable Energy for Other Applications**



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Former NASA DIRECTOR and PhD Scientists Endorse Ion Power Technology

[\(3:27 minutes duration\)](#)

[Click MOVIE for Video Clip](#)



ION POWER GROUP – revolutionary technology to help power the world with clean green renewable electricity harvested from the Earth's Sun-powered Global Electric Circuit day & night to combat pollution, green-house gas emissions, and Global Climate Change.

Green Energy Security for the World



Ion Power Group on The Weather Channel



**Click for a 3-minute television clip
re: Ion Power—Ion Power Group's
Ion Harvesting Technology**

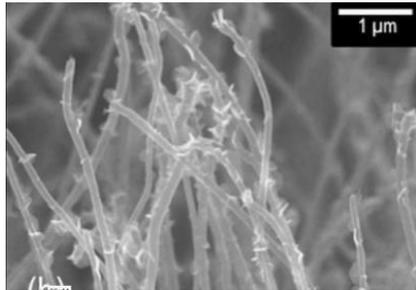


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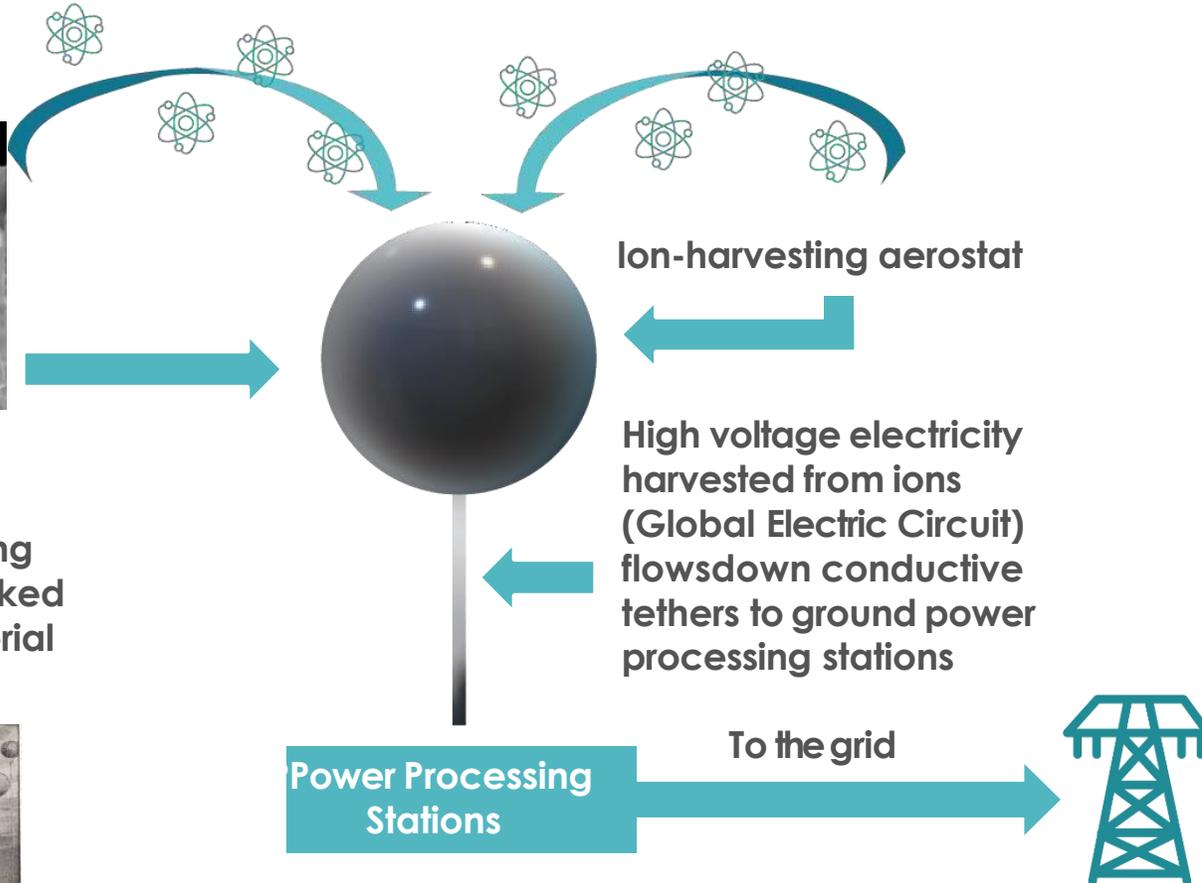
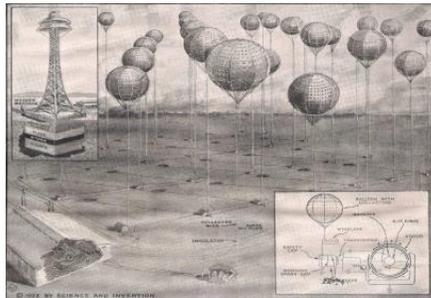
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How Ion Power Works

The use of Carbon nanomaterial for Ion Harvesting is patented by Ion Power Group



Dr. Plauson successfully proved the Ion Harvesting concept in 1922 but lacked proper harvesting material for commercialization

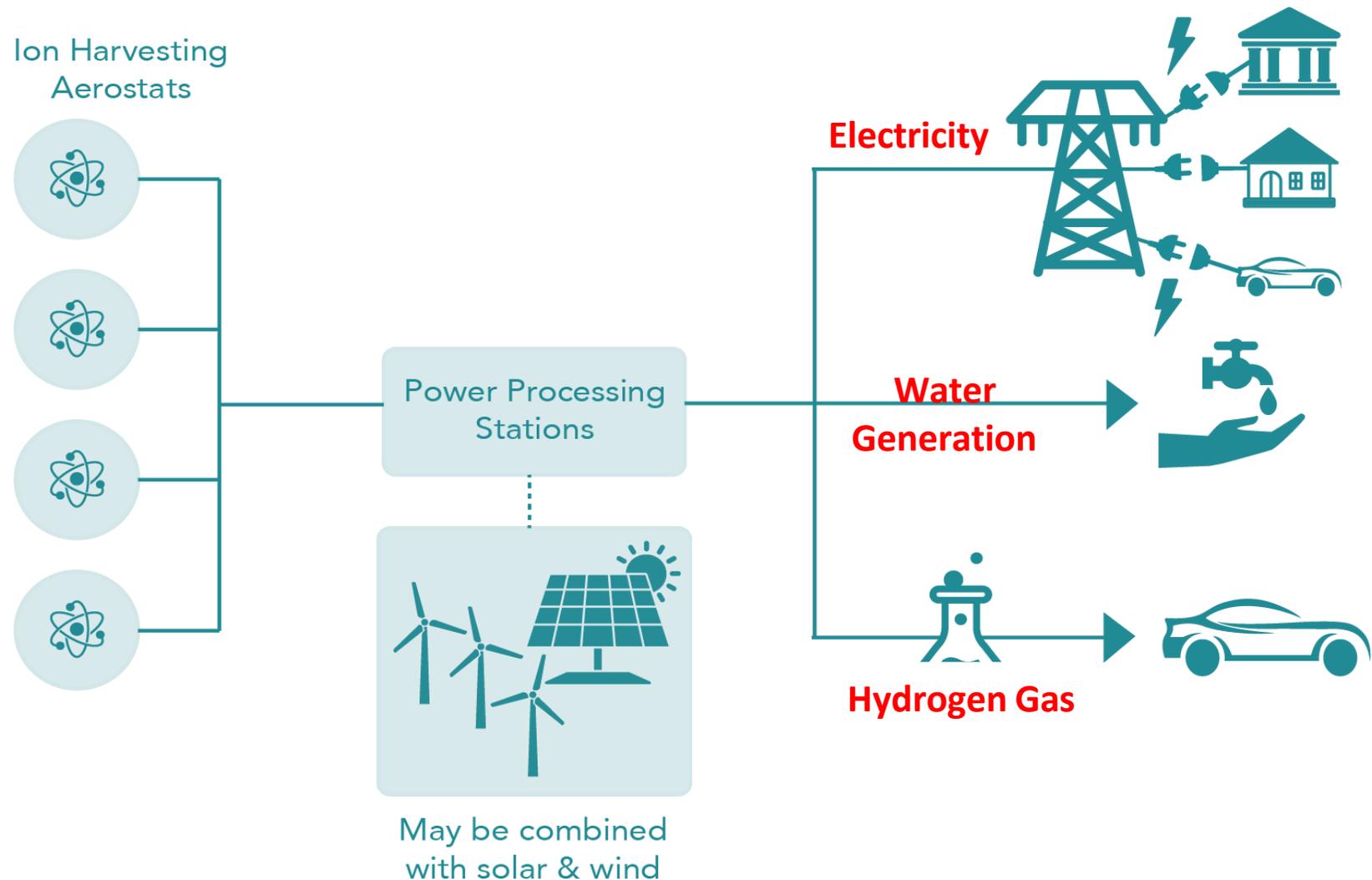


Harvesting electrical charges day & night from trillions of ions in the Global Electric Circuit



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Ion Power: A Standalone (or Integrated) Source of Clean Electricity, Water, and Hydrogen Gas





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Large-Scale Validation Test – Phase 5

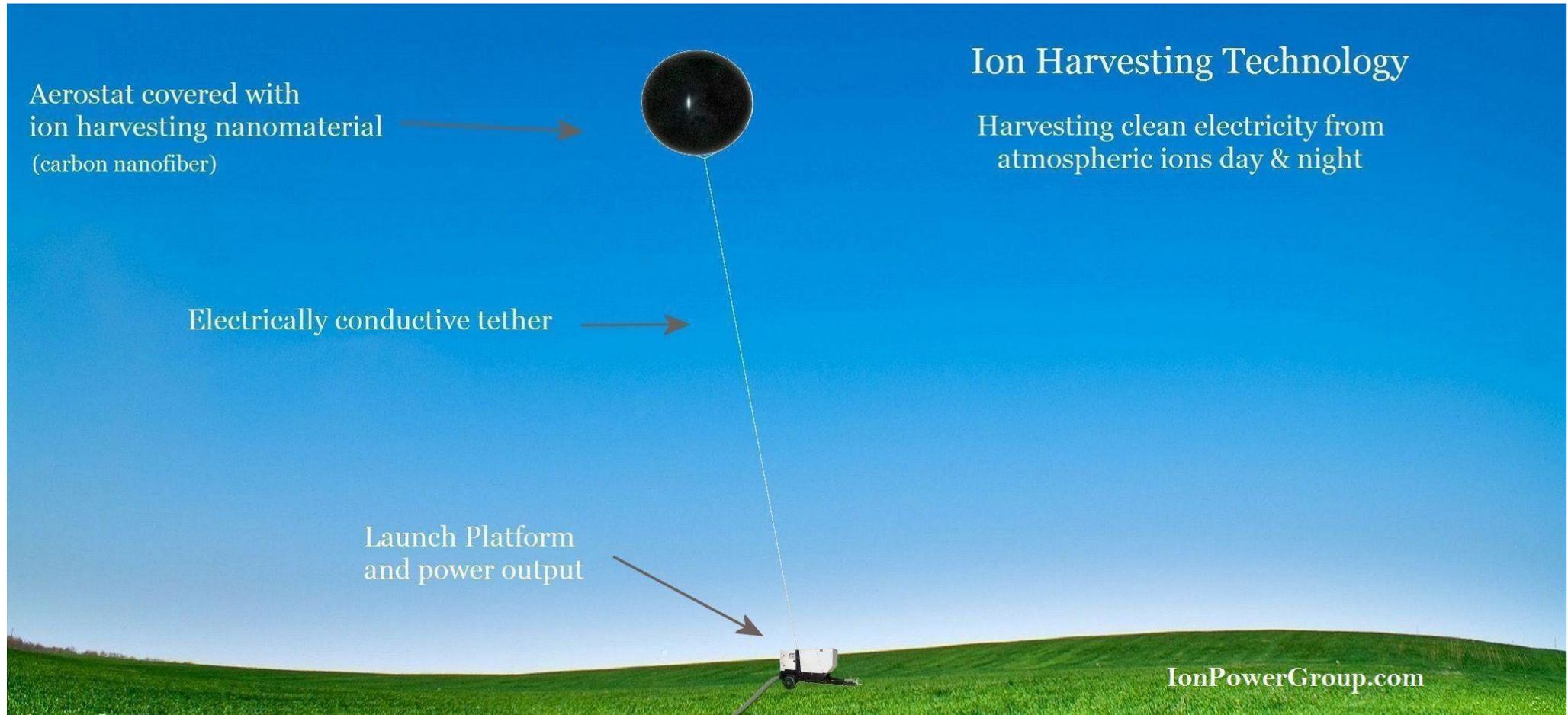
**Cost-Per-Watt
Ion Harvesting
data collection
Study at MSU**

In concert with Mississippi State University (MSU) and its world-renowned High Voltage Research Laboratory, MSU will independently test and record the energy recovered by Ion Power Group's patented Ion Harvesting Technology to enable validation of Dr. Perparim Alikaj's predictive model and comparison of IPG's Levelized Cost of Energy (LCOE) with the LCOEs of other energy options.

PHASE 5A & B – Scale test at Mississippi State University (Initiated on May 19, 2025)



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Meet the Ion Power Team





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Team

Team members are either members of the Board of Directors or the Board of Advisors



Dr. Grace Bochenek,
Chair of the Board
Former US Sec. of Energy



Ray Lugo
former NASA Dir., CEO ISS
Home Laboratory



John Caldwell, Director,
Lt. Gen. USA (Ret), former head
of Research & Development,
Army Materiel Command



Professor Perparim
Alikaj PhD
Chief Executive Officer



Dr. Philip Metzger, Planetary
Physicist, NASA
2011 Scientist/Engineer
of the Year



Dr. David Wallace,
Director of MSU High
Voltage Laboratory



Kate Vatt
Chief of Intellectual
Property



Gary Berzack
Chief Financial Officer
(CPA CA(SA))



Rich Adams
PE, BCEE, Director
Chief Strategy Officer



Clint McCowen
Chief Technologist
Director



Lt. Col. Roland Schmidt,
Chief of Staff,
Director



Lisa McCowen
Director



Thomas Block
Chief Manufacturing Officer



Dr. Philip Dur,
Rear Admiral, USN (Ret)



Dr. Doug Stauffer, CPA
Lt. Gen. USAF, (Ret)



Raj Lakha
International Business
Advisor



Nathan Lyons
Director



Brad Scott
Director



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Ion Power Group Collaboration

Mississippi State University

[High Voltage Laboratory \(msstate.edu\)](https://www.msstate.edu)

Operates the largest University run high voltage laboratory in the northern hemisphere

Florida Space Institute

<https://fsi.ucf.edu/>

High Altitude and Space Research & Development including support for NASA

Clean Energy Business Network

<https://www.cebn.org/>

Washington D.C. Renewable Energy Initiative of the Business Council for Sustainable Energy

Mississippi State University





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Monetization

Ion Power Group's principal monetization will be derived from the following:

- **Acquisition by global power conglomerate(s)**
- **Franchised/Royalty use of Ion Power technologies by countries, corporations, and humanitarian relief projects**
- **Contracted services to consult on the installation, operation, and maintenance of Ion Power Plants around the world**
- **Government Grants**





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ION POWER GROUP'S LICENSING MODEL

Subject to national and international security considerations, in addition to the acquisition of Ion Power Group, or in substitution of such acquisition, Ion Power Group envisions, in exchange for royalties, selling or licensing Ion Power's Technology to state and world governments, power generation corporations and conglomerates, and automotive, aerospace, military, hydrogen gas, and water desalination and dehumidifying companies and/or organizations, as well as licensing its use in humanitarian and disaster-relief situations.

Selling or licensing is likely to occur during or after the successful execution of Ion Power's large-scale Phase 5 test programs.

In Summary

- Modeled projections show that Ion Power Group's Levelized Cost of Energy (cost per watt) for Ion Harvesting is lower to much lower than other energy options.
- The physics and science behind Ion Power's Ion Harvesting technology have been proven, and the company has achieved Technology Readiness Level (TRL) 4, as defined by NASA and the Department of Energy.
- Future Ion Power Plants are anticipated to produce electricity, hydrogen gas, and clean water 24/7/365, day and night, under all but the most severe weather conditions, and anywhere on Earth, on land or sea.
- Ion Power is clean, green, non-intrusive, emissions-free, less complex, and requires less maintenance than other energy options.
- Ion Power does not require large energy storage systems.
- Ion Power technology is patented in many countries around the globe and is a strong candidate for Space Exploration on up to 10 planets and moons (orders of magnitude less costly than the use of nuclear for Mars exploration).
- Ion Power is a standalone energy but can be combined with other energy options.
- The company has a stellar board of directors and advisory board.
- Ion Power's Future Enterprise Value is estimated at US\$3.4B
- Ion Power's annual Economic Viability Analysis (just for the USA) is US\$62B-\$150B
- Ion Power will usher in a broad range of socio-economic benefits



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Future of Ion Harvesting Technology

- Integration within existing Energy (Electricity, Hydrogen, and Water production) Infrastructures.
- Broad Standalone Multi-industry Support/Applications.
- Hydrogen gas generation.
- Clean Water Production from Seawater Desalination and Atmospheric Dehumidification.
- Rapid Deployment for Disaster Relief, Humanitarian Aid, and Restoration of Critical Assets.
- Powering Space Exploration on Mars and other planets/moons with an atmosphere.





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Important Disclaimers

This documentation/presentation contains and expresses certain opinions, estimates, hopes, expectations, plans, projections, goals, aspirations and the like (collectively, the "Forward-Looking Statements") of Ion Power Group (the "Company"). The Forward-Looking Statements relate to, among other things, (a) the Company's anticipated technological research and development efforts; (b) the Company's projected financial performance; (c) the Company's anticipated future fundraising efforts; (d) the contemplated development of the Company's business; (e) the Company's hopes for executing its strategic vision; (f) the anticipated completion of current and future Company projects and programs; (g) the Company's projected ability to engage suppliers and other third parties in connection with the Company's technological research and development efforts; and (h) the Company's exploration and potential discovery of third parties with which to potentially partner in some form in the provision of the Company's ion technology. The number of patents owned by the Company varies over time and may be less, or more, than presented. The cost, and economy of scale, and commercialization of Ion Power generation has not yet been proven. The Company cautions viewers expressly that the information conveyed in this document/presentation and Forward-Looking Statements are not guarantees of future performance. Such Forward-Looking Statements are necessarily subject to risks and uncertainties that may cause actual performance and financial results to differ materially from the projections of future performance or financial results expressed and/or implied by such Forward-Looking Statements. The Company undertakes no obligation to update any of the Forward-Looking Statements if circumstances or the Company's estimates, assumptions or opinions change. **INCLUSIVITY STATEMENT:** Ion Power Group welcomes all applicants, regardless of race, color, religion, sex, gender identity, age, disability, or national origin. We are on a journey to create a workplace and world where everyone has equal access to connect to their greatest passions with their fullest potential. Our approach to diversity is to embrace everyone, cultivating an environment where all team members, advisors, consultants and consumers can bring their best selves to work to build a more equitable workplace and world.



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Supporting Documents

ALIKAJ MATHEMATICAL MODEL ON ATMOSPHERIC ELECTRICITY HARVESTING

by Professor Perparim Alikaj, PhD (as low as \$10 per MWh): <https://ionpowergroup.com/wp-content/uploads/2024/09/Alikaj-mathematical-model-on-AE-harvesting-for-aerostat-No.44.-Sept.8-2024.pdf>

ECONOMIC VIABILITY Dr. Philip Metzger (est \$62-\$150B economic benefit to US annually):

<https://ionpowergroup.com/wp-content/uploads/2017/11/Economic-model-study-Rev-B-authored-by-Dr.-Phil-Metzger-PhD.pdf>

ION POWER FOR WATER AND HYDROGEN GAS PRODUCTION: <https://ionpowergroup.com/wp-content/uploads/2026/01/Prof-Alikaj-report-of-IPG-power-for-water-and-hydrogen-01192026a.pdf>

ION POWER ON MARS Dr. Baumgaertner: [Power to Mars](#) | [Zenodo](#)

BUSINESSPLAN: <https://ionpowergroup.com/wp-content/uploads/2025/08/ION-POWER-GROUP-BUSINESS-PLAN-08162025a.pdf>

ION POWERGROUP ESTIMATED ENTERPRISE VALUATION US\$3.4B:

https://ionpowergroup.com/wp-content/uploads/2023/07/IPG-Valuation_20230704-Final-Version-07132023a.pdf

Ion Power Slash CO2 up to 1.38 Billion Metric Tons Annually :

<https://ionpowergroup.com/wp-content/uploads/2026/02/CO2-reduction-study-by-Prof-Alikaj-02152026-FINAL.pdf>