

From: [Graham, Karriemah \[BPU\]](#)
To: [Etienne, Sandra \[BPU\]](#)
Subject: FW: Docket No. QO24020126 NJ Energy Master Plan Comment
Date: Friday, June 14, 2024 1:52:15 PM
Attachments: [image001.png](#)

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From: Secretary, BPUBoard [BPU] <Board.Secretary@bpu.nj.gov>
Sent: Friday, June 14, 2024 12:41 PM
To: Graham, Karriemah [BPU] <karriemah.graham@bpu.nj.gov>
Subject: FW: Docket No. QO24020126 NJ Energy Master Plan Comment

From: Peter Baldwin <pbaldwin@harnyss.com>
Sent: Friday, June 14, 2024 11:26 AM
To: Secretary, BPUBoard [BPU] <Board.Secretary@bpu.nj.gov>
Subject: [EXTERNAL] Docket No. QO24020126 NJ Energy Master Plan Comment

To: Secretary of the Board

New Jersey Board of Public Utilities
Email: board.secretary@bpu.nj.gov

Dear Secretary of the Board,

On behalf of Harnyss, we submit the following comments in response to the New Jersey Energy Master Plan. As a company dedicated to providing innovative energy solutions, we believe that both hydrogen electric storage and electrostatic supercapacitor energy storage are critical components missing from the current plan.

Harnyss Electrostatic Supercapacitor Energy Storage

Our electrostatic supercapacitors offer long-duration energy storage with superior safety, low operating expenses, and better round-trip efficiency compared to traditional lithium batteries. These supercapacitors are designed to enhance grid stability and power availability, serving as an uninterruptible power supply (UPS) for residential, business, and community applications.

Harnyss Hydrogen Electric Storage Solutions

Harnyss also offers advanced hydrogen electric storage solutions that incorporate hydrogen production, storage, and fuel cells. Key components include:

- **Oasis and Oasis H2 Systems:** These systems are scalable from 500 kWh to 100 MWh using renewable energy and are also effective when utilizing grid power during non-peak periods to store energy and produce hydrogen. This enhances efficiencies and supports the state's low-carbon goals.

Our technology ensures continuous power flow through supercapacitors, offering conditioned power output with minimal downtime and maintenance.

Commitment to Low Carbon Energy Production and Storage

Harnyss is committed to supporting New Jersey's low-carbon energy goals by providing sustainable and efficient energy storage solutions. Our systems work seamlessly with renewable energy sources,

as well as utilizing grid power during non-peak periods for energy storage and hydrogen production. This dual capability ensures optimal efficiency and aligns with the state's carbon reduction objectives.

Rationale for a Third Incentive Program for Distributed Hydrogen Electric Storage

We propose the establishment of a third incentive program specifically for distributed hydrogen electric storage, for the following reasons:

1. **Grid Resilience and Stability:** Hydrogen electric storage provides a reliable backup during peak demand and emergencies, ensuring uninterrupted power supply.
2. **Environmental Sustainability:** Our systems use recyclable components and promote a sustainable lifecycle, reducing environmental impact.
3. **Enhanced Energy Storage Capacity:** Hydrogen storage offers long-duration energy storage, complementing intermittent renewable sources like solar and wind.
4. **Economic Benefits:** Supporting hydrogen electric storage will create jobs, stimulate economic growth, and attract investment in advanced energy technologies.
5. **Technological Advancement:** Encouraging the adoption of hydrogen storage solutions will position New Jersey as a leader in innovative energy technology.

Conclusion

We are confident that the inclusion of both hydrogen electric storage and electrostatic supercapacitor energy storage in New Jersey's incentive programs will significantly advance the state's energy goals and ensure a more resilient and sustainable energy future.

Thank you

Pete Baldwin

VP Business Development

+1 817-894-5280

www.Harnyss.com | [LinkedIn](#) | [Videos](#)

1510 Markum Ranch Road

Fort Worth, TX 76126

