

READING MUNICIPAL LIGHT DEPARTMENT

BOARD OF COMMISSIONERS
REGULAR SESSION MEETING

WEDNESDAY MARCH 27, 2024

Board - Committee - Commission - Council:

RMLD Board of Commissioners

Date: 2024-03-27 Time: 6:00 PM

Building: Reading Municipal Light Building Location: Winfred Spurr Audio Visual Room

Address: 230 Ash Street Agenda:

Purpose: General Business

Meeting Called By: Philip B. Pacino, Chair

Notices and agendas are to be posted 48 hours in advance of the meetings excluding Saturdays, Sundays and Legal Holidays. Please keep in mind the Town Clerk's hours of operation and make necessary arrangements to be sure your posting is made in an adequate amount of time. A listing of topics that the chair reasonably anticipates will be discussed at the meeting must be on the agenda.

All Meeting Postings must be submitted in typed format; handwritten notices will not be accepted.

Topics of Discussion:

ON MARCH 29, 2023, GOVERNOR HEALEY SIGNED INTO LAW A SUPPLEMENTAL BUDGET BILL WHICH, AMONG OTHER THINGS, EXTENDS THE TEMPORARY PROVISIONS PERTAINING TO THE OPEN MEETING LAW TO MARCH 31, 2025.

FOR REMOTE AND/OR PUBLIC PARTICIPATION

Please email **rmldevents@RMLD.com**. Please include your full name, address, and phon number. Comments and questions will be monitored during the meeting.

This meeting will be held in person, remotely on zoom, and streamed live on RCTV and YouTube:

https://www.youtube.com/c/RCTVStudios/videos?view=57.

Join Zoom Meeting

https://rmld.zoom.us/j/84331833478?from=addon

Meeting ID: 843 3183 3478

One tap mobile

+13126266799,,86900260203# US (Chicago)

+16469313860,,86900260203# US

Dial by your location

• +1 929 205 6099 US (New York)

Find your local number: https://rmld.zoom.us/u/kc5UK8UyMZ

1. Call Meeting to Order - P. Pacino, Chair

Code of Conduct: The RMLD Board of Commissioners recognizes the importance of hearing public comment, at the discretion of the Chair, on items on the official agenda. Once recognized by the Chair, all persons addressing the Board shall state their name and address prior to speaking. It the role of the Chair to maintain order in all public comment or ensuing discussion.

- 2. Public Comment P. Pacino, Chair
 - Citizens' Advisory Board
 - Liaisons to the RMLD Board
 - Public Comment
- 3. Discussion on Board of Commissioners Roles in Preparation for April Reorganization P Pacino, Chair
- 4. Report on the Citizens' Advisory Board Meeting R. Porter, Commissioner
- 5. Approval of Board of Commissioners Meeting Minutes (attachment 1) P. Pacino, Chair

<u>Suggested Motion</u>: Move that the RMLD Board of Commissioners approve the November 15, 2023, open session meeting minutes, as presented, on the recommendation of the General Manager and the Board Secretary.

- 6. Update on Release of Executive Session Minutes P. Pacino, Chair
- 7. PURMA Insurance Review (attachment 2) -Nichole Magnifico, Executive Director, PURMA
- 8. Long Duration Energy Storage (attachment 3) B. Bullock, Director of IRD and T. Wiley, Form Energy

Suggested Motion: Move that the RMLD Board of Commissioners, on the recommendation of the Citizens' Advisory Board, vote to accept the General Manager's recommendation to enter negotiations with Form Energy for a long duration energy storage system, with final contract approval under a separate and subsequent motion.

- 9. In-Territory Generation Options Study Results (attachment 4) J. Wiley, Veolia
- 10. Carbon Quest Site Visit Report (attachment 5) B. Bullock, Director of IRD
- 11. Capital Budget Increase for In-Territory Generation and Storage (attachment 6) G. Phipps, General Manager

Suggested Motion: Move that the RMLD Board of Commissioners, on the recommendation of the Citizens' Advisory Board, vote to accept the General Manager's recommendation, to approve an additional 140 million dollar increase to the 2024 capital budget as a new line item for potential in-territory generation and storage projects, for commissioning within the next 5 years.

- 12. General Manager's Report (attachment 7) G. Phipps, General Manager
- 13. Scheduling P. Pacino, Chair

2024 WARRANT SCHEDULE

| | AP | PAYROLL | CAB Coverage | |
|-----------|------------|------------|--------------|--|
| March | Coulter | Pacino | Porter | |
| April | Talbot | Daskalakis | Coulter | |
| May | Pacino | Porter | Talbot | |
| June | Daskalakis | Coulter | Pacino | |
| July | Porter | Talbot | Daskalakis | |
| August | Coulter | Pacino | Porter | |
| September | Talbot | Daskalakis | Coulter | |
| October | Pacino | Porter | Talbot | |
| November | Daskalakis | Coulter | Pacino | |
| December | Porter | Talbot | Daskalakis | |

BOARD OF COMMISSIONERS MEETING SCHEDULE

| Date | Time | Location | CAB Coverage |
|--------------------------|---------|--------------|--------------|
| Wednesday March 27, 2024 | 6:30 PM | RMLD AV Room | Welter |
| Wednesday April 17, 2024 | 6:30 PM | RMLD AV Room | Welter |
| Thursday May 23, 2024 | 7:30 PM | RMLD AV Room | Kelley |
| Thursday June 27, 2024 | 7:30 PM | RMLD AV Room | Soni |

CITIZENS' ADVISORY BOARD MEETING SCHEDULE

| Date | Time | Location | BoC Coverage |
|--------------------------|---------|--------------|---------------------|
| Thursday April 18, 2024, | 6:30 PM | RMLD AV Room | Talbot |
| Thursday May 23, 2024 | 5:30 PM | RMLD AV Room | Coulter |
| Thursday June 27, 2024 | 5:30 PM | RMLD AV Room | Pacino |

14. Executive Session - P. Pacino, Chair

Suggested Motion: Move that the RMLD Board of Commissioners go into Executive Session pursuant to Massachusetts G.L. c.164 section 47D, exemption from public records and open meeting requirements in certain instances, to discuss the deployment of security personnel or devices, or strategies with respect thereto relative to Cybersecurity, the approval and release of executive session minutes, and return to regular session, for the sole purpose of adjournment. Note: Roll call vote required.

15. Adjournment **ACTION ITEM**

<u>Suggested Motion</u>: Move that the Board of Commissioners adjourn regular session. Note: Roll call vote required.

BOARD MATERIALS AVAILABLE BUT NOT DISCUSSED



Accounts Payable / Payroll Questions through March 22, 2024 Surplus and Scrap Material Report February 2024 December 2023 Pre-Audit Financials

ATTACHMENT 1 APPROVAL OF MEETING MINUTES

ATTACHMENT 2 PURMA INSURANCE REVIEW



Commissioner's Insurance Review



Public Utilities Risk Management Association

1900 West Park Drive, Suite 280 Westborough, MA 01581 Phone (508) 983-1458 www.purma.org



PURMA is a 501(C) (6) not- for- profit association governed by a seven member board of directors elected from representatives of the member utility systems in accordance with our formal by-laws. A qualified professional staff is in place to manage the ongoing operations of the association and provide services to our members. We partner with a licensed broker to procure commercially available insurance products on behalf of our members.

PURMA seeks to function in place of a risk management department for members without a risk manager or as an additional resource for members with a risk manager.

History

PURMA was formally organized in 1996. Our program's origins, however, date back as far as 1977 when a small group of municipally-owned utilities banded together to collectively purchase group liability insurance coverage. From that time, insurance lines, related products and services, and membership have steadily grown to what they are today.

Philosophy

PURMA seeks to provide members with access to insurance at reasonable cost regardless of market conditions and to offer and promote loss prevention and risk management resources to our members.

What Does PURMA Do?

PURMA provides members with professional, cost effective, risk management and insurance services. We create risk management solutions that meet the unique needs of each member. We provide high quality low cost insurance solutions to our membership. Our vision is to become the risk management partner of every municipal and cooperative utility in the Northeast.

Who Joins PURMA?

PURMA utility members are publicly owned, nonprofit electric, gas, water, telecommunications, cable TV, and sewer utilities. This includes municipal utilities and rural cooperatives. PURMA also accepts associate members who subscribe to our high business standards and can help members achieve their goals and objectives.

Public Utility Mutual Insurance Company (A Risk Retention Group)









The Member-Owned Insurance Alternative

Liability insurance programs are provided by Public Utility Mutual Insurance Company, A Risk Retention Group (PUMIC), a liability insurance company, which is owned by its members. PUMIC was originally formed as an association captive insurance company in 1997 by several PURMA utility members to take advantage of the outstanding loss history experienced by municipal utilities in the Northeast.

All members of PUMIC are municipal utilities or associated tax-exempt public entities providing electric, gas, water, sewer, telecommunications and cable TV. More than 90% of our member's revenue is generated by electric utility services.

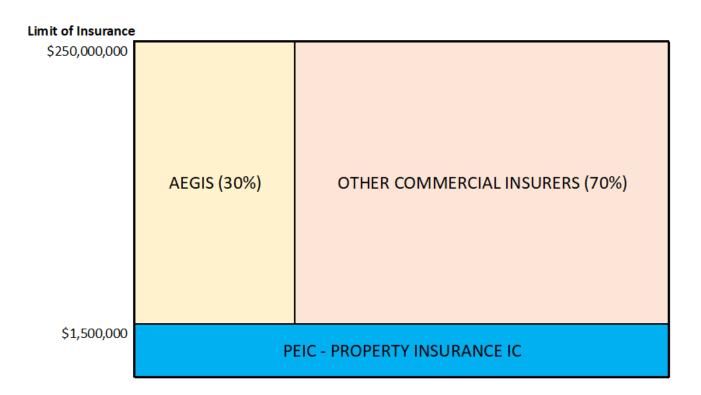
In 1977, a small insurance buying group of publicly owned utilities began to face the growing difficulty of procuring sufficient general liability insurance due to hardening insurance markets and the accompanying increase in premiums. The Northeast Public Power Association (NEPPA) acted as the sponsor and coordinator for the group. NEPPA is the regional service organization for publicly owned utilities in the northeast. The insurance program grew in both coverage and membership. In 1992 a full-time Director of Risk Management was hired to manage the program and continue its growth. In 1996, with the group growing and new programs planned, PURMA was created. While a separate entity from NEPPA, NEPPA and PURMA remain "sister" organizations. The Director of Risk Management filled the newly created position of Executive Director, and a Director of Risk Management and office manager were hired.

The insurance program was essentially a cooperative purchasing group, with an extraordinarily low loss experience. A feasibility study was conducted for creating a captive insurance company. The findings supported the concept, and PUMIC, a Vermont domiciled association captive, was created with \$1 million capital contributed from six PURMA members. PUMIC began writing casualty lines of insurance on December 31, 1997. In 2007, the organization, while maintaining its structure as a mutual insurance company, converted to a risk retention group (RRG) under the Federal Liability Risk Retention Act.

PURMA acts as the general administrator for PUMIC and provides information on the insurance products offered to PURMA members. Please refer to the organization chart. To access PUMIC's services, a utility must join PURMA. PUMIC is reinsured by Associated Electric & Gas Insurance Services (AEGIS). PUMIC is domiciled in the State of Vermont, regulated by the Vermont Department of Financial Regulation, and is registered to operate in the States of Vermont, Massachusetts, Rhode Island, Connecticut, New Hampshire and New York.

ABOUT PEIC

With PURMA's \$250 million dollar property program being significantly impacted by the hard commercial insurance market conditions since 2019, PURMA has gone from having a handful of insurance partners to over 20. Insurers are limiting capacity and increasing pricing, both of which are unfavorable conditions for our membership. Historically, PURMA has procured a commercial insurance policy to cover all property exposures. During PURMA's 2021 property insurance renewal, the association was able to purchase insurance for only 53% of this primary layer. In response, 22 property members under the leadership of PURMA's Executive Director formed a Sponsored Captive domiciled in the State of Vermont. A Sponsored Captive structure is appealing for its flexible design which could provide additional benefits to PURMA members in the future. Cells can be utilized to facilitate an insurance program for a subset of PURMA members. Beginning in 2021, the sponsored captive, Public Energy Insurance Company, LLC holds one protected cell, PEIC Property Insurance IC (PEIC) which acts as the first layer of coverage for PURMA Property members. As members equity in PEIC grows, PURMA will look to expand the capacity of the protected cell. In 2024, PEIC expanded to offer our members Auto Physical Damage Insurance which will provide premium stabilization in years to come.



PURMA/PUMIC/PEIC Organization Chart















- CVEC | electric cooperative -



















































Reading Municipal Light Department RELIABLE POWER































| Policy Type | Definition | Insurer | Effective Dates | Limit/Retention* | Notes |
|--|---|----------------------------|-------------------------|--|--|
| Auto Physical Damage | Provides first party coverage to RMLD's registered vehicles. | PEIC | 1/1/2024 - 1/1/2025 | Retention: \$1,000 | Auto Physical Damage Symbols - 2 (Owned Autos), 8 (Hired Autos) |
| Auto Liability | Provides property damage and bodily injury coverage to third parties when RMLD is negligent for an auto accident. | PUMIC | 1/1/2024 - 1/1/2025 | Limit: \$500,000 | Auto Liability Symbol - 1 (Any Auto) |
| Crime | Protects RMLD against losses due to employee dishonesty, forgery or alteration, computer fraud coverage, funds transfer fraud, kidnap, ransom, social engineering, counterfeit money etc. | Travelers | 12/31/2023 - 12/31/2024 | Employee Theft Limit: \$500,000 Retention: \$2,500 | Social Engineering Limit \$100K Retention: \$5,000 |
| Cyber | This policy is intended to cover a variety of both liability and property losses that may result when a business engages in various electronic activities such as data breach, ransomware, multimedia liabilty etc. | Tokio Marine Kiln (TMK) | 8/22/2023 - 8/22/2024 | Limit: \$3,000,000 Retention: \$300,000 | |
| Public Officials' Liability | Provides liability coverage for the alleged errors and omissions of Public Officials, Directors & Officers. | PUMIC | 1/1/2024 - 1/1/2025 | Limit: \$3,000,000 Retention: \$15,000 | |
| Employment Practices Liability Insurance | This policy covers allegegations of wrongful termination, discrimination, sexual harassment, retaliation, defamation, invasion of privacy, failure to promote etc. | Chubb | 1/1/2024 - 1/1/2025 | Limit: \$1,000,000 Retention: \$15,000 | Includes third party coverage |
| Excess Liability | A policy issued to provide limits in excess of an underlying liability policy. | PUMIC | 1/1/2024 - 1/1/2025 | Limit: \$25,000,000 Retention: \$500,000 | This policy sits over the Auto & General Liability Exposures. |
| Fiduciary Liability | This policy covers RMLD in the event of an errors and omissions (E&O) in the administration of employee benefit programs as imposed by the Employee Retirement Income Security Act (ERISA). | PUMIC | 1/1/2024 - 1/1/2025 | Limit: \$25,000,000 Retention: \$0 | |
| General Liability | This policy responds to allegations that RMLD's negligence has caused property damage or bodily injury to a third party. | PUMIC | 1/1/2024 - 1/1/2025 | Limit: \$500,000 Retention: \$25,000 | |
| Inland Marine/ Contractors Equipment | First party insurance for property in transit. | Acadia | 1/1/2024 - 1/1/2025 | Retention: \$1,000 | |
| Property | First-party insurance that indemnifies RMLD for its loss, when the loss or damage is caused by a covered peril, such as fire or explosion. | AEGIS - Primary Insurer | 2/20/2024 - 2/20/2025 | Limit: \$250,000,000 Retention: \$50,000 | Property Insurance includes participation in PEIC |
| Railroad Liability | Insurance coverage protecting a railroad from liability it incurs because of the work of contractors on or near the railroad right-of-way. | Hudson Insurance | 12/31/2023 - 12/31/2024 | Limit: \$5,000,000 Retention: \$0 | |

ATTACHMENT 3 LONG DURATION ENERGY STORAGE

BREAKTHROUGH LOW-COST, MULTI-DAY ENERGY STORAGE

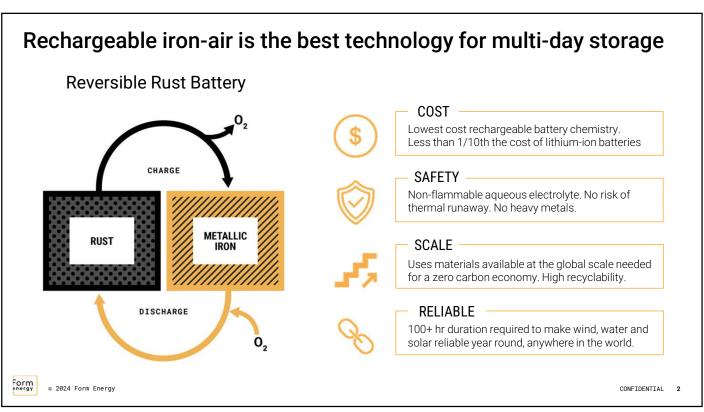
Sarah Jackson - Policy Manager, Eastern Region
Sam Simmons - Staff Business Development Manager



Energy Storage For A Better World

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Rising to the challenge of climate change with a team that will deliver



OUR INVESTORS: LONG-TERM AND IMPACT-FOCUSED

\$820M+ in venture capital from top investors including:
Breakthrough Energy Ventures (BEV), TPG's Climate Rise Fund,
Coatue Management, GIC, NGP Energy Technology Partners III,
ArcelorMittal, Temasek, Energy Impact Partners, Prelude Ventures,
MIT's The Engine, Capricorn Investment Group, Eni Next,
Macquarie Capital, Canada Pension Plan Investment Board, and
other long-term, impact oriented investors

LED BY ENERGY STORAGE VETERANS

Decades of cumulative experience in energy storage

100's of MW of storage deployed











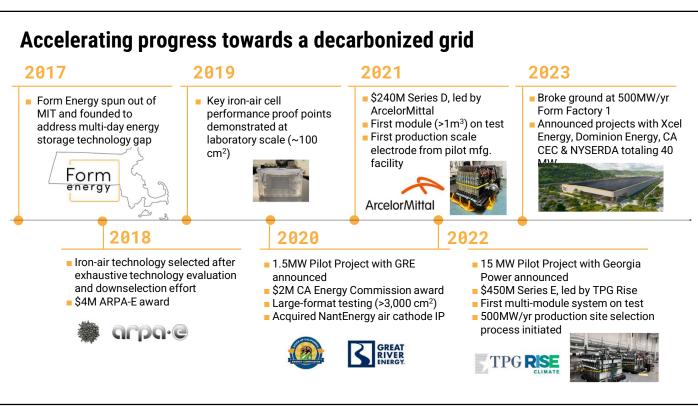












Form Factory 1: Commercial-Scale Manufacturing

Transforming Weirton Steel Land for Battery Manufacturing in West Virginia



- Total Local Investment: \$760 million
- Construction Start: Early 2023
- Production Start: Late 2024
- Jobs: Minimum of 750 full-time jobs

Building rendering

Location Benefits

- Close to our existing pilot manufacturing facility in PA
- Strong natural infrastructure
- Local manufacturing know-how

February 2024 Update

Factory Function

- Semi-to-fully automated cell, module, & enclosure assembly
- Ability to scale production in modular blocks

Over 5 GWh of Commercial Engagements



First-of-its-kind **1.5 MW /150 MWh**MDS project in Cambridge,
Minnesota to come online
in 2024



Two 10 MW / 1,000 MWh MDS systems; one in Becker, MN and one in Pueblo, CO. Both expected to come online as early as 2025



5 MW / 500 MWh MDS system in collaboration with the California Energy Commission in Mendocino County; online by 2025



10 MW / 1000 MWh MDS system in New York to come online as early as 2025



15 MW / 1500 MWh MDS system in Georgia to come online as early as 2026



5 MW / 500 MWh MDS system in Virginia to come online as early as 2026

Form

6

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Multi-day storage supports RMLD's mission of serving customers with reliable, low cost and increasingly non-carbon energy



Reliable

Low

Low Cost



Zero-carbon

Multi-day storage can step in to avoid load shedding during system scarcity events such as winter weather driven gas shortages Multi-day storage can consistently shave the system peak and reduce ISO-NE transmission and capacity charges Multi-day storage, when charged from renewables (either in territory or imported) provides 100% carbon free electricity

Form

7

© 2024 Form Energy

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Further reading

Videos

Form Energy: Overview video

Form Energy Virtual Lab tour with CTO Billy Woodford

Form Factory 1: Construction Progress

Whitepapers

The Value of Multi-Day Storage in New England

Case Study with Great River Energy

Blog Post: A clean grid requires firm power. Here's what that means for energy storage

Press

PV Magazine: Form Energy's solution for a fossil free New England: \$100 billion in savings

MIT Energy Initiative: Power when the sun doesn't shine

Wall Street Journal: Startup Claims Breakthrough in Long Duration Batteries

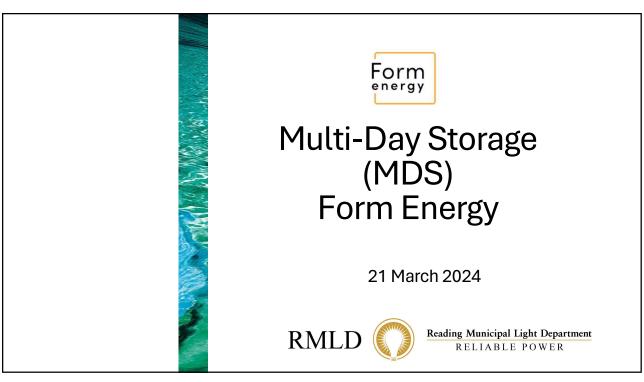


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Multi-Day Storage (MDS)

10MW MDS system in RMLD territory could help smooth the transition to net zero electricity and maintain our mission of reliable, low cost and non-carbon electricity delivery.

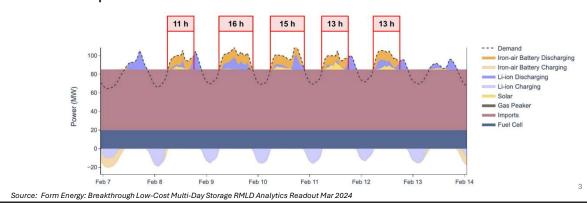
- Peak reduction to manage increasing transmission and capacity costs
- Interday energy price arbitrage to help mitigate price volatility, especially with increasing mix of intermittent renewable resources.
- MDS can limit impact of possible ISO NE mandatory load reductions

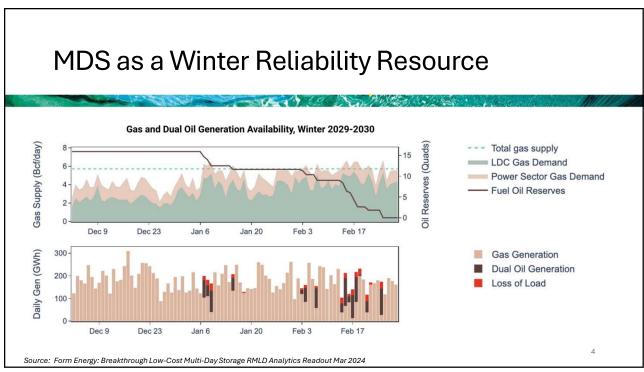
Creates opportunity to create a "Clean Energy Hub" on a soon to be acquired parcel with the Carbon Capture Fuel Cell.



Peak Reduction / Energy Arbitrage

• MDS can help flatten the curve, shifting load across multi-hour periods. Creating arbitrage opportunities and reducing risk of oversupply in low demand periods.





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Path Forward

- Promote project within Commonwealth
 - Highlight the "Clean Energy Hub"
 - Position as another component of RMLD in-territory strategy
 - Seek state level grant
- Develop risk mitigation plan
- Confirm land parcel
- Refine commercial structure with Form Energy
 - Update financial models
 - Negotiate MOU / contract
- Secure CAB / BoC approvals





ATTACHMENT 4 IN-TERRITORY GENERATION OPTIONS STUDY RESULTS



In-Territory Generation Technology Assessment Independent Report Veolia North America

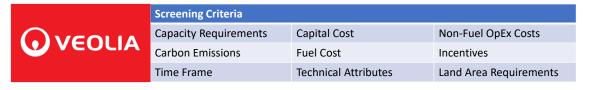
BoC and CAB Report

from Integrated Resources & Veolia

21 March 2024

Third Party In-Territory Generation Study

- RFP was issued in December 2023 for a report to assess in-territory generation options for RMLD by an independent third party.
 - Veolia North America Sustainable Industries and Buildings selected
- Veolia and RMLD created a list of potential technologies to meet RMLD's long term energy supply needs given our mission of reliable, low cost, and increasingly non-carbon electricity delivery.



2

In-Territory Generation – Summary Results

| | | | | LA CAPACIDA | | tar par Maria de Carlos de Carlos | |
|--|-----------------------|-------|-------|--------------------------------|------------|---|--|
| Description | Units | Wind | Solar | Carbon Capture Fuel Cell | Geothermal | Hydrogen Engine (High Fuel Cost) | Hydrogen Engine (Low Fuel Cost) |
| Capacity | MW per 100k MWh | 43 | 69 | 12 | 14 | 13 | 13 |
| Capacity Factor | % | 26% | 17% | 95% | 80% | 95% | 95% |
| Levelized Cost of Electricity | \$/MWh | \$48 | \$60 | \$99 | \$179 | \$1,014 | \$526 |
| Land Cost | \$/MWh | \$105 | \$100 | \$0.11 | \$.01 | \$.01 | \$.01 |
| Total Levelized Cost of Electricity | \$/MWh | \$153 | \$159 | \$99 | \$179 | \$1,014 | \$526 |
| Timeframe | Years | 3-4 | 1-2 | 1-3 | 7-10 | 2-3 | 8+ |

³ Source: 2024-02-28 – RMLD_In-Territory Generation Technology Assessment (Rev 1)



ATTACHMENT 5 CARBON QUEST SITE VISIT REPORT

Carbon Quest Phase 1 Due Diligence Trip Report

21 March 2024



The System at 1930 Broadway NYC

- 232 Unit, 30 Story Apartment Building, 2002 construction
- Two 400HP Boilers, that divert flue gas to Carbon Quest system 2021
- Dewater > Compression > Zeolite Absorbs CO2 > Vacuum Releases CO2 > Cryogenically Stored as Liquid > Trucked Away
- ~5 tons per day of CO2 removal



Applicability to RMLD

- Will remove >92% of CO2 from fuel cell flanged exhaust
 - Provides 20 MW of base load capacity; compliant with 2021 Climate Law
- Modular design with integration to Fuel Cell
 - Simplifies scale up
 - Reduces construction risk and cost
- Current business model, Carbon Quest to market CO2 captured
 - Concrete, Polymers and Chemicals, Liquid Fuels
 - Purchase CO2 from RMLD



Path Forward

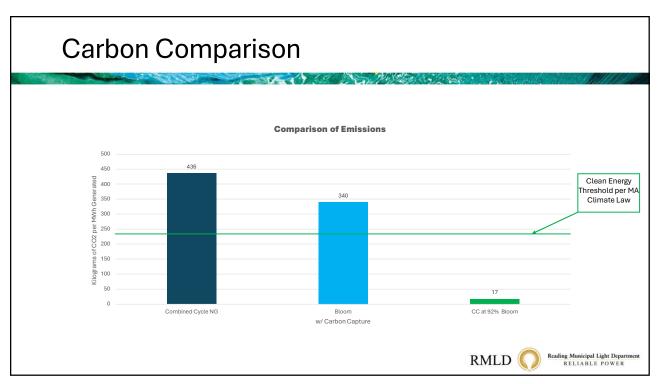
- Review other carbon capture options in parallel
- Continue Due Diligence
 - Risk mitigation elements
 - scale up
 - · supply chain
 - · counter party
 - performance
 - longevity / reliability
 - regulatory
- Develop LOI with Carbon Quest
 - More detailed design contingent on threshold economics/performance/regulatory hurdles



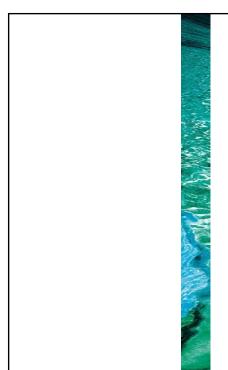
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Thank You from the RMLD Team





ATTACHMENT 6 CAPITAL BUDGET INCREASE FOR INTERRITORY GENERATION



2024 Capital Budget Increase Notes

Presented to the Board of Commissioners and Citizens Advisory Board

21 March 2024

Carbon Capture Fuel Cell – financial notes

Gross project estimated \$140 million including carbon capture (CC) asset

· But, carbon capture asset is more likely an energy services contract, rather than asset purchase

- 20% contingency included in estimates
- IRA22 likely to provide 30% direct pay grant, once project commissioned
- Other grants will be pursued given this is a novel project (excluded from this analysis)
- Net estimated cost to RMLD \$80 million

Operating cash flow provides net savings by year 3

- In territory generation cost lower than wholesale cost (energy, transmission, and capacity)
- Certificate value including in modeling (consistent with Policy 30)
- Financial model includes debt service (15 year bond)
- Model assumes selling CO2 and not owning CC asset
- · Positive project NPV

Land for CCFC was included in 2024 capital budget, as a separate line

Bid process looking more likely, hence, budget line item is a prerequisite to progressing project

2 source: Cost Comparison CCFC 2024-03-19

budget motion

Several new capital projects materializing

| | | | | | est annual capex cas (\$ millions) | | | |
|--------------------------|--|-----------------------------|--|----------------|---------------------------------------|------|------|-----|
| project | decription | gross capex (\$ million) | est net RMLD capex (\$ millions) | 2024 budget | 2024 | 2025 | 2026 | 202 |
| | | | | | | | | |
| Carbon Capture Fuel Cell | 20 MW generation system | 140 | 80 | no | 12 | 25 | 30 | 13 |
| Long Duration Battery | 10 MW 50-100 hour duration battery storage | 36 | 9 | no | 1 | 4 | 4 | |
| RT 125 Land | 41 acres of land | 6 | 6 | yes | 6 | | | |
| Maple Meadow Energy Park | 8 MW solar / 10 MW battery | 30 | 30 | no | | 5 | 10 | 15 |
| Maple Meadow Land | 75 acres of land | 3 | 3 | yes | 1 | 1 | 1 | |
| Lynnfield H20 Energy | 2 MW solar / 10 MW battery (water plant backup) | 9 | 7 | no | | 3 | 4 | |
| Town PV (North Reading) | School (HS roof or parking lot canopy) | 5 | 4 | no | | 1 | 3 | |
| Town PV (Reading) | Schools (Parker, Killam) Senior Center, Schools | 1 | 1 | no | | | 1 | |
| Town PV (Wilmington) | (Shawsheen, West) | 2 | 2 | no | | 1 | 1 | |
| | subtotal | 232 | 142 | | 20 | 40 | 54 | 28 |

Business models not yet finalized but RMLD ownership of assets is preferred where possible

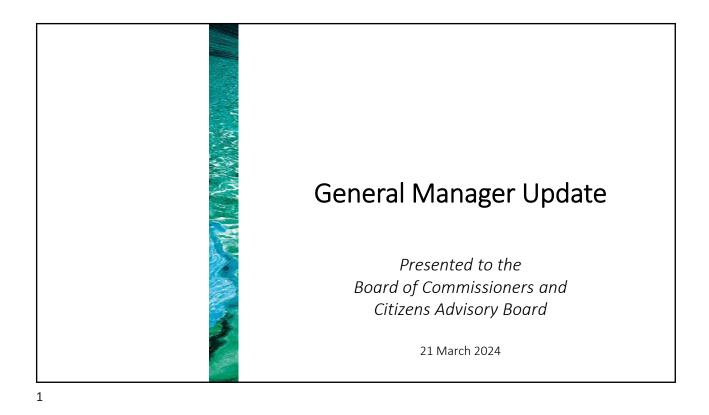
Hence, bid process may be required for projects or project components

Therefore, generation and storage projects need budget line item to enable bid process

Each project will be presented to CAB/BoC for approvals (this budget approval is not funding approval of these projects)



ATTACHMENT 7 GENERAL MANAGER'S REPORT



RMLD - team, grants

New Director of HR on board and running

Actively recruiting

- Director of Engineering
- Director of Enterprise Data mid 2024

External marketing

- Emphasizing education in addition to informing
- Sharing context and RMLD strategy to adjust
- C&I incentive programs

Some reconfiguration at 230 Ash building

- Place teams closer to each other and team leaders
- Faster and better internal coordination

Second round submission for Grid Modernization grant due May (w/ PMLP)

10 hr battery joint grant submission first round results expected in April

2



RMLD - infrastructure

RT 125 land LOI fully executed

- Due diligence stated
- Targeting close end of summer 2024

Maple Meadows

- Pathway to "site ready for PV" identified with DEP
- Title resolution via interim ground lease
- Targeting ownership by 2027

Station 6 – progress and delay

- 4Q23 system impact study complete
- 2024 site prep, equipment orders, transformers
- 4Q25 initial commissioning more likely early 2027 (transmission connection likely pushed out)
- 2024 maintenance extends Station 5 reliability

50kV padmount transformers delivery received

• Total outstanding orders (not yet received) remains ~400 (vs 150 typical)

Focus on pole clean-up (replacements, double-poles, pole butts, ...)

• Additional digger rented given long lead time on ordered digger (and other trucks)

3





AP and Payroll Questions for the 2024-03-27 BoC Board Book

Erica Morse <emorse@rmld.com>

Thu 3/21/2024 6:46 PM

To:Erica Morse <emorse@rmld.com>

AP

From February 16, 2024, through March 22, 2024, there were no Commissioner questions.

Payroll:

From February 19, 2024, through March 18, there were no Commissioner questions.

Erica Morse
Executive Assistant
Reading Municipal Light Department
O: 781-942-6489

C: 617-791-3304 www.rmld.com



Surplus Update - February 2024

Maureen Sullivan <msullivan@RMLD.com>

Thu 2/29/2024 4:40 PM

To:Erica Morse <emorse@rmld.com> Cc:Paula O'Leary <poleary@RMLD.com>

Good afternoon Erica,

I am sending this email to inform you that there were NO Surplus Items of Substantial Value that were disposed of in February 2024.

Thank you, Maureen

Maureen Sullivan

Assistant Materials Manager Reading Municipal Light Department (RMLD) 230 Ash Street Reading, MA 01867

Tel. No. 781-942-6441

Email: msullivan@rmld.com

Town of Reading, Massachusetts Municipal Light Department Statement of Net Assets 12/31/2023

| | DECEMBER 2023 | DECEMBER 2022 |
|---|------------------|-------------------|
| ASSETS | | _ |
| Current: | | |
| Unrestricted Cash | \$ 21,070,91 | 2 \$ 23,137,479 |
| Restricted Cash | 39,114,92 | |
| Restricted Investments | 1,438,57 | |
| Receivables, Net | 10,723,77 | |
| Prepaid Expenses | 3,917,95 | |
| Inventory | 3,161,60 | 2,295,222 |
| Total Current Assets | 79,427,74 | |
| Noncurrent: | | |
| Lease Receivable | 1,993,59 | 99 1,993,599 |
| Investment in Associated Companies | 1,063,86 | |
| Construction in Progress | 1,031,77 | |
| Capital Assets, Net | 94,598,80 | |
| Total Noncurrent Assets | 98,688,03 | |
| Deferred Outflows | 6,113,38 | 6,113,387 |
| TOTAL ASSETS | 184,229,16 | |
| | | 101,100,002 |
| LIABILITIES Current | AU | DIT |
| Accounts Payable | 10,789,42 | 26 8,907,542 |
| Accrued Liabilities | 652,10 | |
| Customer Deposits | 1,790,68 | 1,681,059 |
| Advances from Associated Companies | 200,00 | 00 200,000 |
| Contribution in Aid of Construction | 3,559,24 | |
| Total Current Liabilities | 16,991,46 | 14,419,600 |
| Non-current | | |
| Accrued Employee Compensated Absences | 964,19 | 1,400,945 |
| Net OPEB Obligation | 4,269,08 | |
| Net Pension Liability | 5,358,70 | |
| Total Non-current Liabilities | 10,591,98 | 33 11,028,735 |
| Deferred Inflows | 9,802,91 | 8 9,802,918 |
| TOTAL LIABILITIES | 37,386,36 | 35,251,253 |
| NET POSITION | | |
| Invested in Capital Assets, Net of Related Debt | 94,598,80 | 91,330,396 |
| Restricted for Depreciation Fund | 18,824,33 | |
| Restricted for Pension Trust | -,- , | - 3,091 |
| Unrestricted | 33,419,66 | |
| TOTAL NET POSITION | 146,842,80 | 131,929,309 |
| Total Liabilities and Net Assets | \$ 184,229,16 | 57 \$ 167,180,562 |

| | Month Current Year | Month Last Year | Year to Date Current Year | Year to Date Last Year | Percent Change |
|--|--|---|---|--|--|
| Operating Revenues | | | | | |
| Base Revenue Fuel Revenue Purchased Power Capacity & Transmission Forfeited Discounts Energy Conservation Revenue NYPA Credit Total Operating Revenues | \$ 3,335,193 2,111,193 2,539,525 58,840 222,867 (25,262) 8,242,354 | \$ 2,257,522 2,928,113 2,770,742 71,533 148,685 (117,836) 8,058,761 | \$ 36,405,953 30,969,565 32,568,572 913,041 2,427,092 (1,219,499) 102,064,724 | \$ 29,967,183 36,961,878 31,737,379 811,391 1,943,029 (1,203,582) 100,217,278 | 21.5% (16.2%) 2.6% 12.5% 24.9% 1.3% |
| Expenses | | | | | |
| Power Expenes: | | | | | |
| 547 Purchased Power Fuel555 Purchased Power Capacity565 Purchased Power TransmissionTotal Purchased Power | 2,260,770 991,896 1,001,393 4,254,059 | 2,941,858 1,285,222 956,071 5,183,152 | 26,960,712 14,741,068 14,426,582 56,128,361 | 33,700,655 14,754,910 16,151,055 64,606,619 | (20.0%) (0.1%) (10.7%) (13.1%) |
| Operations and Maintenance Expenses: | | | | | |
| 580 Supervision and Engineering 581 Station/Control Room Operators 582 Station Technicians 583 Line General Labor 586 Meter General 588 Materials Management 593 Maintenance of Lines - Overhead 593 Maintenance of Lines - Tree Trimming 594 Maintenance of Lines - Underground 595 Maintenance of Line - Transformers 598 Line General Leave Time Labor Total Operations and Maintenance Expenses General & Administration Expenses: | 134,761 47,864 59,057 172,065 20,514 64,233 62,579 546,763 14,369 8,481 79,641 | 120,621 79,700 84,903 80,651 23,220 20,937 63,939 332,058 42,773 36,769 149,925 | 1,489,688 676,991 1,149,611 1,009,937 190,705 569,315 860,178 1,409,480 84,149 101,668 608,808 | 1,176,831 549,799 607,477 788,574 220,475 447,076 434,310 1,008,002 259,023 231,738 607,893 | 26.6% 23.1% 89.2% 28.1% (13.5%) 27.3% 98.1% 39.8% (67.5%) (56.1%) 0.2% |
| 903 Customer Collections 904 Uncollectible Accounts 916 Energy Audit 916 Energy Conservation 920 Administrative and General Salaries 921 Office Supplies and Expense 923 Outside Services - Legal 923 Outside Services - Contract 923 Outside Services - Education 924 Property Insurance 925 Injuries and Damages 926 Employee Pensions and Benefits 930 Miscellaneous General Expense 931 Rent Expense 933 Vehicle Expenses 933 Vehicle Expenses - Capital 935 Maintenance of General Plant 935 Maintenance of Building & Garage Total General & Administration Expenses | 111,334 15,809 118,109 392,824 180,411 1,761 28,909 104,904 47,685 58,111 4,083 418,150 116,720 6,605 86,497 (27,273) 45,508 119,175 1,829,322 | 118,561 (44,767) 83,595 396,521 162,090 2,540 80,079 80,058 19,698 32,768 280 (2,120,329) 146,948 10,002 34,891 48,567 132,058 (816,439) | 1,385,498 52,476 917,199 2,321,189 2,388,426 18,472 355,290 428,228 168,502 484,865 81,811 4,281,876 488,535 211,393 381,033 (415,373) 693,495 860,855 15,103,771 | 1,177,530 10,233 821,117 1,647,863 2,065,363 16,830 530,575 369,546 81,921 414,521 21,157 1,730,569 532,743 212,367 310,298 (365,504) 566,879 1,004,613 | 17.7% 412.8% 11.7% 40.9% 15.6% 9.8% (33.0%) 15.9% 105.7% 17.0% 286.7% 147.4% (8.3%) (0.5%) 22.8% 13.6% 22.3% (14.3%) 35.5% |

| | Month Current Year | Month Last Year | Year to Date Current Year | Year to Date Last Year | Percent Change |
|---|-----------------------|--------------------|------------------------------|---------------------------|-------------------|
| Other Operating Expenses: | | | | | |
| 403 Depreciation | 435,353 | 421,033 | 5,224,241 | 5,056,984 | 3.3% |
| 408 Voluntary Payments to Towns | 152,210 | 143,387 | 1,826,606 | 1,720,644 | 6.2% |
| Total Other Expenses | 587,564 | 564,419 | 7,050,847 | 6,777,628 | 4.0% |
| Operating Income | 361,082 | 2,092,132 | 15,631,214 | 11,353,211 | 37.7% |
| Non Operating Revenues (Expenses): | | | | | |
| 419 Interest Income | 160,008 | 60,274 | 959,522 | 300,617 | 219.2% |
| 419 Other | 476,016 | 94,252 | 971,947 | 798,972 | 21.6% |
| 426 Return on Investment to Reading | (211,551) | (210,620) | (2,533,024) | (2,503,974) | 1.2% |
| 426 Loss on Disposal | (67,540) | (50,596) | (67,540) | (50,596) | 33.5% |
| 431 Interest Expense | (3,473) | 20,417 | (48,625) | (1,727) | 2715.9% |
| Total Non Operating Revenues (Expenses) | 353,460 | (86,274) | (717,720) | (1,456,708) | (50.7%) |
| Change in Net Assets | 714,542 | 2,005,858 | 14,913,494 | 9,896,503 | 50.7% |
| Net Assets at Beginning of Year | 131,929,309 | 122,032,806 | 131,929,309 | 122,032,806 | 8.1% |
| Ending Net Assets | \$ 132,643,851 | \$ 124,038,664 | \$ 146,842,803 | \$ 131,929,309 | 11.3% |

| | Actual Year to Date | Budget Year to Date | OVER/UNDER \$ | OVER/UNDER % |
|---|---|--|---|--|
| Operating Revenues | | | · · · · · · | |
| Base Revenue Fuel Revenue Purchased Power Capacity & Transmission Forfeited Discounts Energy Conservation Revenue NYPA Credit Total Operating Revenues | \$ 36,405,953 30,969,565 32,568,572 913,041 2,427,092 (1,219,499) 102,064,724 | \$ 32,116,223 41,106,033 34,515,988 963,487 2,001,000 (1,162,000) 109,540,730 | \$ 4,289,730 (10,136,468) (1,947,416) (50,445) 426,092 (57,499) (7,476,006) | (24.7%) (5.6%) (5.2%) 21.3% 4.9% |
| Expenses | | | | |
| Power Expenses: | | | | |
| 555 Purchased Power Fuel 555 Purchased Power Capacity 565 Purchased Power Transmission Total Purchased Power | 26,960,712 14,741,068 14,426,582 56,128,361 | 39,944,033 15,469,599 19,226,389 74,640,021 | (12,983,321) (728,531) (4,799,807) (18,511,659) | (4.7%) (25.0%) |
| Operations and Maintenance Expenses | | | | |
| 580 Supervision and Engineering 581 Station/Control Room Operators 582 Station Technicians 583 Line General Labor 586 Meter General 588 Materials Management 593 Maintenance of Lines - Overhead 593 Maintenance of Lines - Tree Trimming 594 Maintenance of Lines - Underground 595 Maintenance of Line - Transformers 598 Line General Leave Time Labor Total Operations and Maintenance Expenses | 1,489,688 676,991 1,149,611 1,009,937 190,705 569,315 860,178 1,409,480 84,149 101,668 608,808 8,150,530 | 978,439 508,095 1,337,458 600,755 270,245 588,589 568,743 1,589,788 194,974 355,040 215,963 7,208,088 | 511,250 168,895 (187,847) 409,183 (79,540) (19,274) 291,434 (180,307) (110,824) (253,371) 392,844 | 33.2% (14.0%) 68.1% (29.4%) (3.3%) 51.2% (11.3%) (56.8%) (71.4%) 181.9% |
| General & Administration Expenses: | | | | |
| 903 Customer Collection 904 Uncollectible Accounts 916 Energy Audit 916 Energy Conservation 920 Administrative and General Salaries 921 Office Supplies and Expense 923 Outside Services - Legal 923 Outside Services - Contract 923 Outside Services - Education 924 Property Insurance 925 Injuries and Damages | 1,385,498 52,476 917,199 2,321,189 2,388,426 18,472 355,290 428,228 168,502 484,865 81,811 | 1,299,608 75,000 1,071,429 3,064,243 3,224,132 20,000 785,800 740,100 329,150 541,550 25,600 | 85,890 (22,524) (154,230) (743,054) (835,706) (1,528) (430,510) (311,872) (160,648) (56,685) 56,211 | (30.0%) (14.4%) (24.2%) (25.9%) (7.6%) (54.8%) (42.1%) (48.8%) (10.5%) |
| 926 Employee Pensions and Benefits 930 Miscellaneous General Expense 931 Rent Expense 933 Vehicle Expense 933 Vehicle Expense - Capital Clearing 935 Maintenance of General Plant 935 Maintenance of Building & Garage Total General & Administration Expenses | 4,281,876 488,535 211,393 381,033 (415,373) 693,495 860,855 | 4,568,626 601,400 212,000 389,000 (510,268) 668,767 991,558 | (286,750) (112,865) (607) (7,967) 94,896 24,728 (130,703) (2,993,924) | (6.3%) (18.8%) (0.3%) (2.0%) (18.6%) 3.7% (13.2%) |

| | Actual Year to Date | Budget Year to Date | OVER/UNDER \$ | OVER/UNDER % |
|---|------------------------|------------------------|------------------|--------------|
| Other Operating Expenses: | | | | _ |
| 403 Depreciation | 5,224,241 | 5,445,000 | (220,759) | (4.1%) |
| 408 Voluntary Payments to Towns | 1,826,606 | 1,772,440 | 54,166 | 3.1% |
| Total Other Expenses | 7,050,847 | 7,217,440 | (35,447) | (0.5%) |
| Operating Income | 15,631,214 | 2,377,487 | 13,122,581 | 552.0% |
| Non Operating Revenues (Expenses): | | | | |
| 415 Contribution in Aid of Construction | - | 50,000 | (50,000) | (100.0%) |
| 419 Interest Income | 959,522 | 300,000 | 659,522 | 219.8% |
| 419 Other Income | 971,947 | 710,000 | 261,947 | 36.9% |
| 421 Intergovernmental Grants | | 90,000 | (90,000) | (100.0%) |
| 426 Return on Investment to Reading | (2,533,024) | (2,548,972) | 15,948 | (0.6%) |
| 426 Loss on Disposal | (67,540) | (10,000) | (57,540) | 575.4% |
| 431 Interest Expense | (48,625) | (10,000) | (38,625) | 386.2% |
| Total Non Operating Revenues (Expenses) | (717,720) | (1,418,972) | 701,252 | (49.4%) |
| Net Income | \$ 14,913,494 | \$ 958,515 | \$ 13,954,979 | 1455.9% |

PRE-AUDIT FINANCIALS are exclusive of audit year end entries

Typical year end entries include:

Adjustments to OPEB and PENSION liabilities as calculated by Marcum using the most current actuarials.

These adjustments can have a significant impact of the bottom line since the GL general benefits is adjusted in the G&A section of the P&L

In 2022, the pension adjustments decreased the general benefits expense total by over \$2MM

In 2022 the OPEB adjustment decreased the general benefits expense by \$286K $\,$

Other anticipated adjustments will be the implementation of GASB 96, which is a change to the way SBITA (Subscription Based Info Tech Arrangment) is accounted for. It is anticipated that these entries will only affect the Balance Sheet, not the P&L.

There may be adjustments to the lease receivable for the update of GASB 87 It is anticipated that these entries will only affect the Balance Sheet, not the P&L.