



RBHOO SPECIAL MEETING

April 3, 2024

Agenda – Call to Order

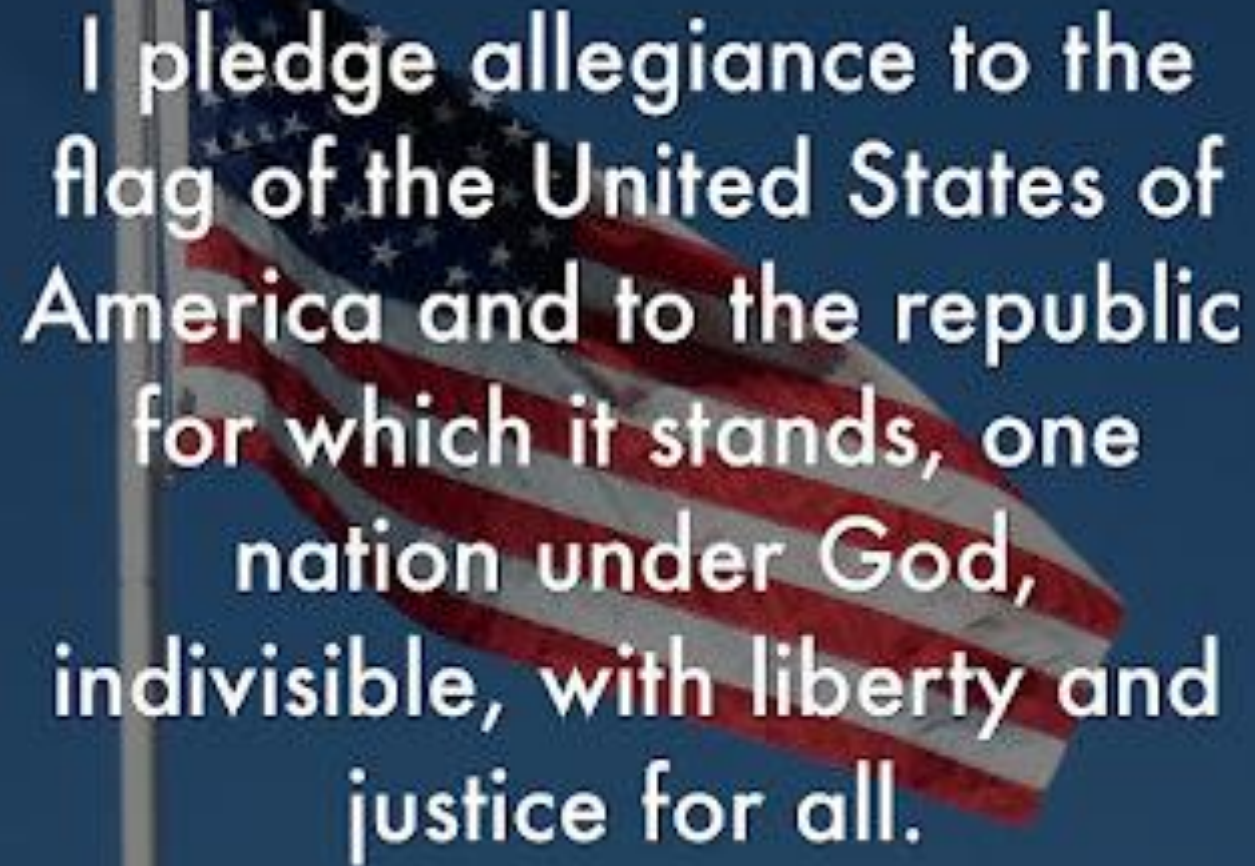
- Meeting will begin promptly at 6:35pm



All Zoom Participants are muted!

**Pictures might be taken and possibly used on the
RBHOO website.**

Pledge of Allegiance

An American flag is shown waving against a dark blue background. The text of the Pledge of Allegiance is overlaid on the image in a white, serif font.

I pledge allegiance to the
flag of the United States of
America and to the republic
for which it stands, one
nation under God,
indivisible, with liberty and
justice for all.



TVA Battery Energy Storage System (BESS)

Agenda

- TVA to go over Emergency Response Plan (ERP)
- Answer questions



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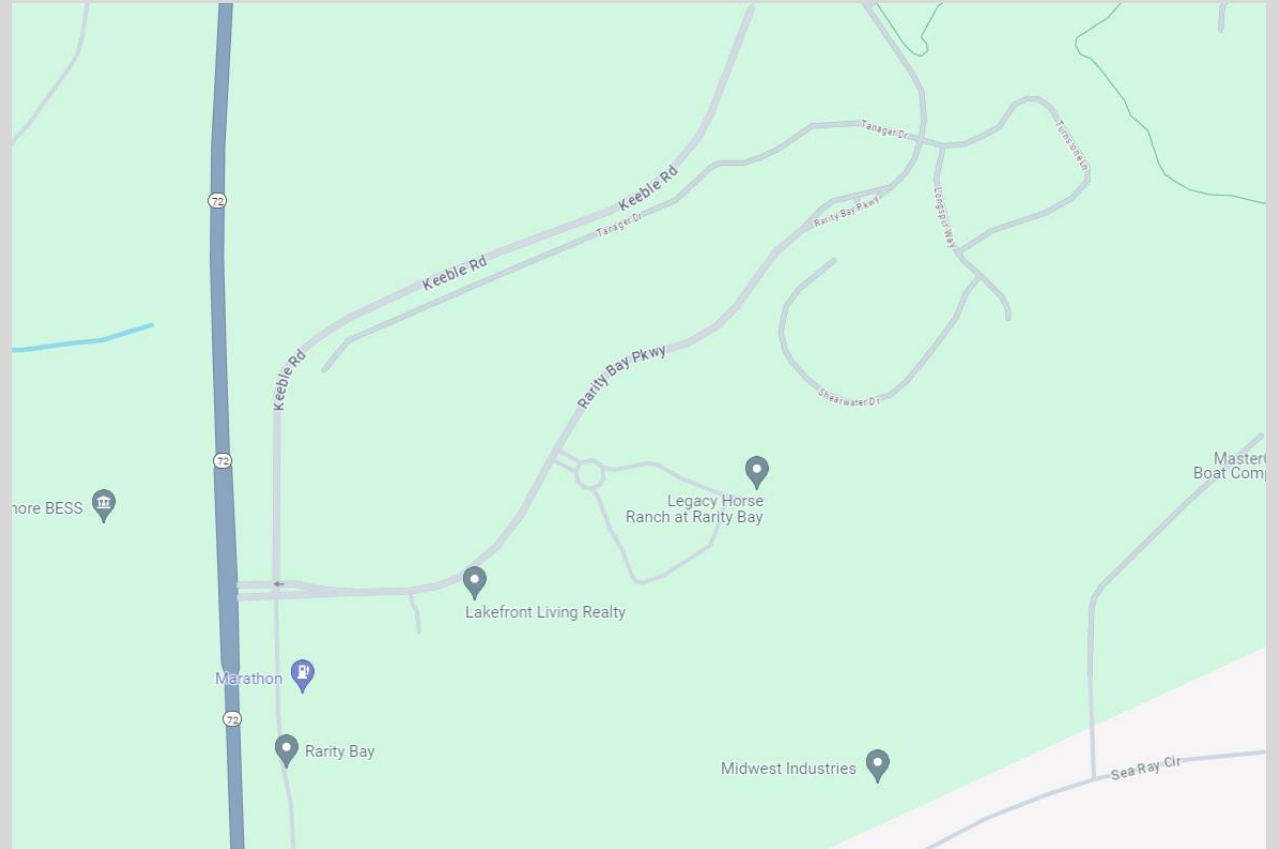
What's are Rarity Bay's Concerns with the BESS

Major Concerns

1. One entrance/exit
 - Not good for emergencies
 - Could 72 be shut down?
 - Residents with medical needs
 - Future homes within 1/5th mile
 - Should be addressed in ERP
2. Chemicals getting into Bat Creek
 - Accident occurs during rain storm
 - Should be addressed in ERP

Other Concerns

1. Aesthetics



What's are Rarity Bay's Concerns with the BESS

EPRI BESS

| Location | Energy (MWh) | Power (MW) | Module Type | Application | Installation | Event Date | System Age (yr) | State During Accident | Source |
|--|--------------|------------|--------------------|-------------------------|----------------------------|-------------------|-----------------|-----------------------|-----------------------------|
| Germany, Wurzberg | | | | | Underground Parking Garage | 5 November 2023 | | | Fireworld |
| USA, ID, Melba | 8 | 2 | Powin Energy | Distribution Resource | Substation | 2 October 2023 | 0 | Pre-commissioning | KTVB7 |
| France, Martinique, Saint-Esprit | | | | Solar Integration | Farm | 29 September 2023 | | Operational | DayFR Euro |
| Australia, Queensland, Bouldercombe | 100 | 50 | Tesla | | Substation | 26 September 2023 | 0.1 | Operational | ABC News |
| US, CA, Valley Center | 560 | 140 | LG Energy Solution | | Rural | 18 September 2023 | 1.6 | Operational | Valley Road Runner |
| France, Saucats, Barban | 98 | 105 | | | Rural | 22 August 2023 | 0 | Pre-commissioning | dayFREuro |
| China, Xiangzhou District, Zuhai City | | | | | Warehouse | 19 August 2023 | | | OFweek |
| US, NY, Chaumont | 15 | 5 | General Electric | Solar Integration | Rural | 27 July 2023 | 0.4 | Operational | 7 News WWNYTV |
| Taiwan, Taichung City, Longjing District | | | LFP | | | 4 July 2023 | | | United Daily News |
| US, NY, Warwick | 17.9 | 4 | Powin Energy | Energy Shifting, Backup | Substation | 27 June 2023 | 0.1 | Operational | Convergent Energy and Power |

What's are Rarity Bay's Concerns with the BESS

Latest Accident in EPRI BESS Database

Failure Event - USA, ID, Melba - 2 Oct 2023

Overview

| Event Details ¹ | |
|----------------------------|---|
| Location: | USA, ID, Melba |
| Capacity (MW): | 2 |
| Capacity (MWh): | 8 |
| Battery Module: | Powin Energy |
| Integrator: | Powin Energy |
| Application: | Distribution Resource |
| Installation: | Substation |
| Enclosure Type: | Integrated products |
| Event Date: | 2 October 2023 |
| System Age (yr): | 0 |
| Extent of Damage: | Several stacks appeared to be burnt |
| State During Accident: | Pre-commissioning |
| Description: | Battery fire at the substation was reported, leading to road closures. The fire was contained and allowed to burn out over 3 days, and air quality testing was conducted by the county. The substation remained operational through the fire. |
| Source: | KTVB7 |
| Additional Resources: | NewsData KIVI-TV |

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What's are Rarity Bay's Concerns with the BESS

Latest Accident in EPRI BESS Database

Road Closures were up to ½ mile

Melba, ID (CBS2) — Canyon County Sheriff's Office has issued an update to a battery fire that started at the Idaho Power substation in Melba on Monday.

As of publication, the fire continues to burn, and the barrier set up around the site on Monday remains in place, according to CCSO. Battery fires can burn extensively due to their chemical makeup and contents.

Authorities have said that since the area has been contained and no other structures or equipment are in immediate danger, letting the fire burn out would be best.

Road closures in the Hill Road area, east of Base Line Road, Base Line Hill, and the South Powerline Road and Base Line Road intersection will likely stay in effect throughout Wednesday night.

The public is asked to stay away from the area to allow crews to continue safely monitoring the situation. Idaho Power reports no other equipment has been damaged, and they do not expect any customer outages.

TVA Battery Energy Storage System (BESS)

Planned Egress Road Out of Rarity Bay



What's Rarity Bay's Concern

Egress Road

- Preliminary Work
 - TRDA has approved road location
 - Survey over SPC land is complete
 - Easement contract over SPC land is finalized
 - Signed by RBCAI Board President
 - Waiting on SPC President to sign
 - Cost estimate of \$30,000 for clearing trees, grading and gravel for roadway (18' wide)
 - Does not include gates and formal survey over TRDA land

What's Rarity Bay's Concern

Request of TVA

- Assist Rarity Bay with the cost of the egress road
 - TVA created the problem
 - Should have known one entrance/exit for Rarity Bay and selected a different site
 - TVA has mentioned that an environment impact study would be needed prior to funding
 - Why? TRDA, a government agency created by TVA and the State of Tennessee already approved it
- Residents do not trust that highway 72 will not be shut down during an emergency.
 - Every BESS fire has resulted in road closures
 - Why does TVA believe this will not occur?
 - Rarity Bay has a lot of seniors with medical needs.
 - Dialysis, scheduled surgery's, etc
 - This was very apparent during the snow emergency
- Almost every BESS fire has resulted in shelter in place and/or evacuations
 - Why does TVA think differently?
- Where did TVA come up with the 333 foot 'hot zone'?
 - Cannot find any reference to that small of a number!

What's Rarity Bay's Concern

From TVA

- Eric Murrell – TVA Project Mgr
- Patrick Wallace – TVA Power Operations
- Dykie Gentry – TVA Power Operations
- Billy Sabin – TVA Power Operations
- Brad Carmony – TVA Communications
- Brian Baker – TVA Communications



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Vonore Battery Storage



Normal Day to Day Operation:

- Continuous Remote Monitoring
- Advanced Safety Systems
- Minimal Onsite Personnel with Regional Coverage

- Continuous monitoring of operational safety.
- Immediate identification and investigation of irregularities.
- Hazard detection and prevention mechanisms.
- Regular system updates and inspections.
- Enhanced operational efficiency.

During Maintenance:

- Scheduled Maintenance by Trained Professionals
- Temporary Increase in Onsite Presence
- Maintaining Operational Integrity

- Adherence to all safety standards.
- Use of proven technology and tools.
- Compliance with safety protocols.
- Minimal disruption to local community.
- Focus on maintaining and enhancing system reliability.
- All activities overseen by TVA operations team

Abnormal Event:

- Emergency Response Activation
- Prompt Notification of Local Emergency Services
- Facility's Design for Incident Management

- Initiate risk mitigation.
- Integrated with industry proven safety features
- Site information available
- Established rapid response protocols
- Containment and management of incidents.
- Protection of community and environment.

Our Safety and Preparedness Measures:

- Proactive Safety Measures
- Collaboration with Local Emergency Services
- Environmental Stewardship

- Continuous Monitoring & Advanced Protocols Ensures a safe environment through safety systems and monitoring.
- Annual exercises with Vonore's emergency responders to enhance coordination, communication, and awareness.
- These drills ensure we are always ready to respond effectively together, protecting our community.
- Minimizing Environmental Risks: Controls to safeguard our local environment.
- Open Communication: Maintaining a transparent and open relationship with our community and local authorities for ongoing safety and environmental integrity.



TENNESSEE
VALLEY
AUTHORITY

Questions

1. TVA has stated that the BESS is a green initiative but will also provide back-up power, as required. Will the BESS be operated in parallel at all times with the grid, serving to seamlessly provide power during system interruptions, or will there be a time delay, however brief, in providing the stored power?
2. TVA has stated in provided literature that systems like the BESS are well suited as a storage source for solar or wind power. Is TVA planning to install a solar plant adjoining BESS?
3. Has TVA tested BESS to the grid, yet? If not, when?

Questions



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