



The Readiness and Environmental Protection Integration (REPI) program fosters multi-agency initiatives and collaboration to preserve compatible land uses near military installations and ranges. These cost-sharing partnerships with state and local governments and private conservation organizations limit incompatible development in the vicinity of DoD installations and ranges; enhance military installation resilience to climate change or extreme weather events; or relieve current or anticipated environmental restrictions in support of key mission capabilities of strategic importance. The REPI program designed the REPI Challenge, an annual competition that aims to:



Cultivate projects that conserve land at a greater scale and test promising ways to finance land protection.



Achieve benefits not obtainable by typical REPI projects in order to protect critically important military missions.



Support the REPI program to meet its ambitious goals.



Harness the creativity of the private sector to access and leverage unconventional sources of funding and market-based approaches.

REPI Challenge Highlights Innovative Solutions to Preserve and Enhance Readiness in Hawaii

This year, the 2022 REPI Challenge will provide **Hawaii \$19.2 million** in program funds to be coupled with **\$15.1 million** in partner contributions. These funds will help implement **three projects** focusing on shared challenges on the islands of O'ahu, Kaua'i, and Hawai'i. All three projects will strategically focus on improving coastal and forest resilience, which benefits long-term sustainability for local communities and the DoD mission. By allocating funding to projects in Hawaii, the REPI Challenge will contribute to initiatives advancing the military mission at **Pacific Missile Range Facility Barking Sands, Joint Base Pearl Harbor-Hickam, and Pōhakuloa Training Area.**

To learn more about all nine of this year's Challenge funding recipients, explore the [2022 REPI Challenge Package](#) for additional information on project highlights, partnerships, and funding information. For more information about the REPI program and supportive DoD efforts, please visit www.repi.mil.

2022 REPI CHALLENGE IN HAWAII



REPI Funds: \$19.2M
 Partner Contributions: \$15.1M

Total: \$34.3M

1. Pacific Missile Range Facility Barking Sands

Climate resilience to mitigate flood impacts
 REPI Funds: \$1.9M

2. Joint Base Pearl Harbor-Hickam

Climate resilience through forest and watershed protection
 REPI Funds: \$14.9M

3. Pōhakuloa Training Area

Climate resilience through wildfire management
 REPI Funds: \$2.4M





Pacific Missile Range Facility Barking Sands

Resilience and Protection of Compatible Land

- The U.S. Navy's Pacific Missile Range Facility (PMRF) is the **world's largest instrumented multi-environment range** capable of simultaneously supporting subsurface, surface, air, and space operations.
- **Runoff** in west Kaua'i flows from irrigation ditches through PMRF and into the nearshore marine environment, **creating encroachment threats** to the airfield and harming nearby ecosystems, recreational areas, and agricultural land.
- **Using natural infrastructure**, this project will **mitigate installation threats from sea-level rise** and improve the quality of water discharged from the agricultural drainage ditches into the nearshore environment.

NOMINATING PARTNER

Kekaha Agriculture Association



U.S. Marines load a CH-53E Super Stallion during Large Scale Exercise 2021 at Pacific Missile Range Facility Barking Sands. (U.S. Marine Corps photo by 2nd Lt. Erin E. Scudder)



REPI Funds:
\$1.9M

Partner Contributions:
\$4.8M

Total: \$6.7M

Joint Base Pearl Harbor-Hickam

Expanding Forest and Watershed Protection Above Pearl Harbor

- Joint Base Pearl Harbor-Hickam (JBPHH) is a **strategic pivot point of support for military activities in the Pacific** that supports ship, submarine, and Navy Special Warfare Command operations and training.
- **Climate change and invasive species threaten native forests that replenish the Pearl Harbor Aquifer; the loss of which increases storm runoff.** The Aquifer is a vital water supply for JBPHH and provides a buffer from significant storm events.
- This project provides long-term protection of 7,155 acres of forested land directly above JBPHH to increase and secure the water supply vital to mission capabilities and resilience, and also improve water quality to ensure safe operations and training conditions for Navy personnel and ship movements.

NOMINATING PARTNER

State of Hawaii, Department of Land & Natural Resources



USS Port Royal departs Joint Base Pearl Harbor-Hickam. (U.S. Navy photo by Mass Communication Specialist 2nd Class Daniel Barker)



REPI Funds:
\$14.9M

Partner Contributions:
\$7.9M

Total: \$22.8M

Pōhakuloa Training Area

Climate Resilience for Wildfire Prevention

- Pōhakuloa Training Area is a **joint arms facility** that supports the Army's training strategy, including the use of **advanced autonomous systems**.
- **Wildfires have negatively impacted military training**, property, and raised safety concerns for Department of Defense personnel and residents while threatening plant and animal species.
- Mitigating against wildfire risk by **implementing wildfire management tools**, such as fuel and fire breaks and road improvements, this project will promote installation resilience to increasing drought risks.

NOMINATING PARTNER

State of Hawaii, Department of Land & Natural Resources



Soldiers participate in a fire support coordination exercise at Pohakuloa Training Area, Hawaii, June 2021. (Army photo by Staff Sgt. Alan Brutus)



REPI Funds:
\$2.4M

Partner Contributions:
\$2.4M

Total: \$4.8M