Advanced Research Projects Agency-Energy

We are an agency within the U.S. Department of Energy that:

- Provides **Research and Development** funding for **high-risk, high-reward, transformational ideas**
- Focuses on technology opportunities that could **fundamentally change** the way we get, use and store energy
- Accelerates energy innovations that will create a more secure, affordable, and sustainable **energy future** for the U.S.

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ARPA-E’s MARINER Program
MacroAlgae Research Inspiring Novel Energy Resources

Advanced Macroalgae Cultivation & Harvest Systems

MACROSCALABLE

Remote Sensing

Computational Modeling

MONITORING & AUTOMATION

Breeding Tools

MACROECONOMICAL

Resilient

Economical

Macroalgae Biomass:

No Land
No Freshwater
No Fertilizer

MARINER creates new biomass production opportunities for the vast ocean resources of the United States.

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MARINER Program: 18 Projects; 5 categories

1. Cultivation and Harvesting Systems
2. Component Technologies (Autonomous Operations)
3. Computational Modeling Tools
4. Aquatic Monitoring Technology and Tools
5. Breeding and Genetic Tools

Program Goal: Demonstrate scalable cultivation and harvest of macroalgae in the ocean.
Questions?