

Climate Moonshot Summary

CLIMATE MOONSHOT PORTFOLIO

*Billions to
save trillions*

Illustrative ~\$8 Billion / Five-Year R&D Portfolio

LOW-COST ENERGY • CLIMATE UNDERSTANDING • REFLECTIVITY RESEARCH
OPEN-SOURCE • STAGE-GATED • INDEPENDENT REVIEW



By Glenn Weinreb

**OPEN
SOURCE**

Portfolio documents are free to view, copy, and modify under the [CC BY 4.0](#) open-source license.

September 7, 2026 | v1f | Copyright © 2026 by [Glenn Weinreb](#) | www.APlanToSaveThePlanet.org

Climate Moonshot Portfolio

The Climate Moonshot Portfolio is an open-source reference architecture for large-scale climate R&D. It asks: If society spent billions on additional R&D to reduce climate risk, what should it develop? The current portfolio contains eight roughly \$1B, five-year initiatives. They are starting points for review—not a package to adopt unchanged.

Low-cost energy

- Nuclear power site-construction automation — Develop custom machines | [PDF](#)
- Nuclear-powered industrial processing — Use reactor heat to make things | [PDF](#)
- Economic fusion moonshot — Develop low-cost commercial fusion machine | [PDF](#)

Climate understanding

- Global climate models — Conduct experiments to improve climate models | [PDF](#)

SAI sunlight-reflection research

- SAI Reflectivity Plan — Illustrative 15-year [SAI](#) plan | [PDF](#)
- SAI experiments — Test atmospheric processes with experiments | [PDF](#)
- SAI equipment — Develop and test equipment for research and future systems | [PDF](#)

MCB sunlight-reflection research

- MCB Reflectivity Plan — Illustrative 15-year [MCB](#) plan | [PDF](#)
- MCB experiments — Determine whether MCB could reliably increase reflectivity | [PDF](#)
- MCB equipment — Develop automated MCB equipment & monitoring systems | [PDF](#)

Common Framework. Shared rules cover governance, procurement, open data, independent review, conflicts of interests, safety, stage gates, and stop-work. Lower-cost analysis and design precede larger prototypes; programs advance only when evidence justifies the next step.

How to use it. Reviewers may add, delete, combine, redesign, or re-budget initiatives. This is not a request for one organization to receive ~\$8B; programs can be independently adapted, competed, and funded by governments, foundations, or other public-interest funders.

Full portfolio: <https://www.aplantosavetheplanet.org/cmp>

European Climate Moonshot Concept Note: <https://www.aplantosavetheplanet.org/europe>