

National Aeronautics and
Space Administration



Department of Energy



Fission Surface Power

NASA is working with the Department of Energy and Industry to design a fission surface power system that would provide at least 40 kilowatts of power—enough to continuously run 30 households for ten years.

A future lunar demonstration will pave the way for sustainable operations and even base camps on the Moon and Mars.

The FSP system, which will be unloaded from the lander and transported to the final operational destination, must be capable of running regardless of location, weather, available sunlight and other natural resources.

In partnership with NASA, the DOE issued a Request for Proposal in 2021 asking American companies for FSP system design concepts that could be ready to launch within a decade for a demonstration on the Moon.