

Space-Based Solar Power: Ecosystem Map

Collecting sunlight in space and wirelessly sending green electricity to Earth via radio waves or lasers. Alternatively, reflecting light directly to solar farms.

SPACE-TO-SPACE

Wirelessly powering spacecraft from other space assets during eclipse or for extra energy.



SPACE-TO-MOON

Wirelessly powering spacecraft on the Lunar surface from space. Large overlap with space-to-space.



LUNAR SURFACE

Wirelessly powering spacecraft on the Moon. There are many wired energy services planned too.



POWER BEAMING

Wireless power for/on Earth (wireless energy grid, Earth-space-Earth) or Earth-to-space applications.



SPACE-TO-EARTH

Space-based solar power for terrestrial applications using microwave or laser power beaming.



Space energy for terrestrial applications using orbital mirrors to reflect light to solar farms on Earth.



IN-SPACE ASSEMBLY

Selected entities from the in-space assembly & construction fields as one key enabling technology.



SOLAR CELLS

Selected companies for low-cost mass-produced solar cells for space or made in space or on Moon.



WAITLIST

Commercial entities active in the ecosystem but wireless space energy service plans or status is TBD.



NON-COMMERCIAL

Non-exhaustive list of public and non-profit entities and initiatives active in the space energy field.

