

## Energy Harvesting Sources Comparison

Zacharie Hellouin, 5-ISS A2

	Solar	Thermal	Kinetic/vibration	Electromagnetic/RF
Benefits	High output	Stability (no moving parts)	Works well with human body	Compact
	Good knowledge of the technology	Allows to recycle the heat dissipated by electronical circuits	Can also be used as a sensor	Works in difficult conditions
	Many kinds of solar cells (rigid, flexible, organic...)	Compact		Durability
	Measurement standards	lightweight		Numerous radio-waves are always available
	Low cost	Silent		Easy calibration
	High power density and power output			Cheap
Drawbacks	Depends on the availability of light	T° difference needed	Mostly requires constant vibrations	Size of antennas
	Doesn't work with small surfaces	Recent technology	Moving parts -> degradation over time	Cannot be inside conductive enclosures
		Material durability		Low power

### Sources:

Recent advances and future prospects in energy harvesting technologies, Hiroyuki Akinaga 2020 Jpn. J. Appl. Phys. 59 110201

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