

# Solar Energy Harvesting

## What is SEH

- Pretty simple: draw energy from the sunshine to power our devices

- Its peers:

Harvesting technology	Power density
Solar cells (outdoors at noon)	$15mW/cm^2$
Piezoelectric (shoe inserts)	$330\mu W/cm^3$
Vibration (small microwave oven)	$116\mu W/cm^3$
Thermoelectric ( $10^\circ C$ gradient)	$40\mu W/cm^3$
Acoustic noise (100dB)	$960nW/cm^3$

The highest  
power density



Idea source  
For powering  
An embedded system  
With a smaller harvesting size

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What is a **SEH** system?

- The architecture that using solar power to drive the mote (sensor node)

