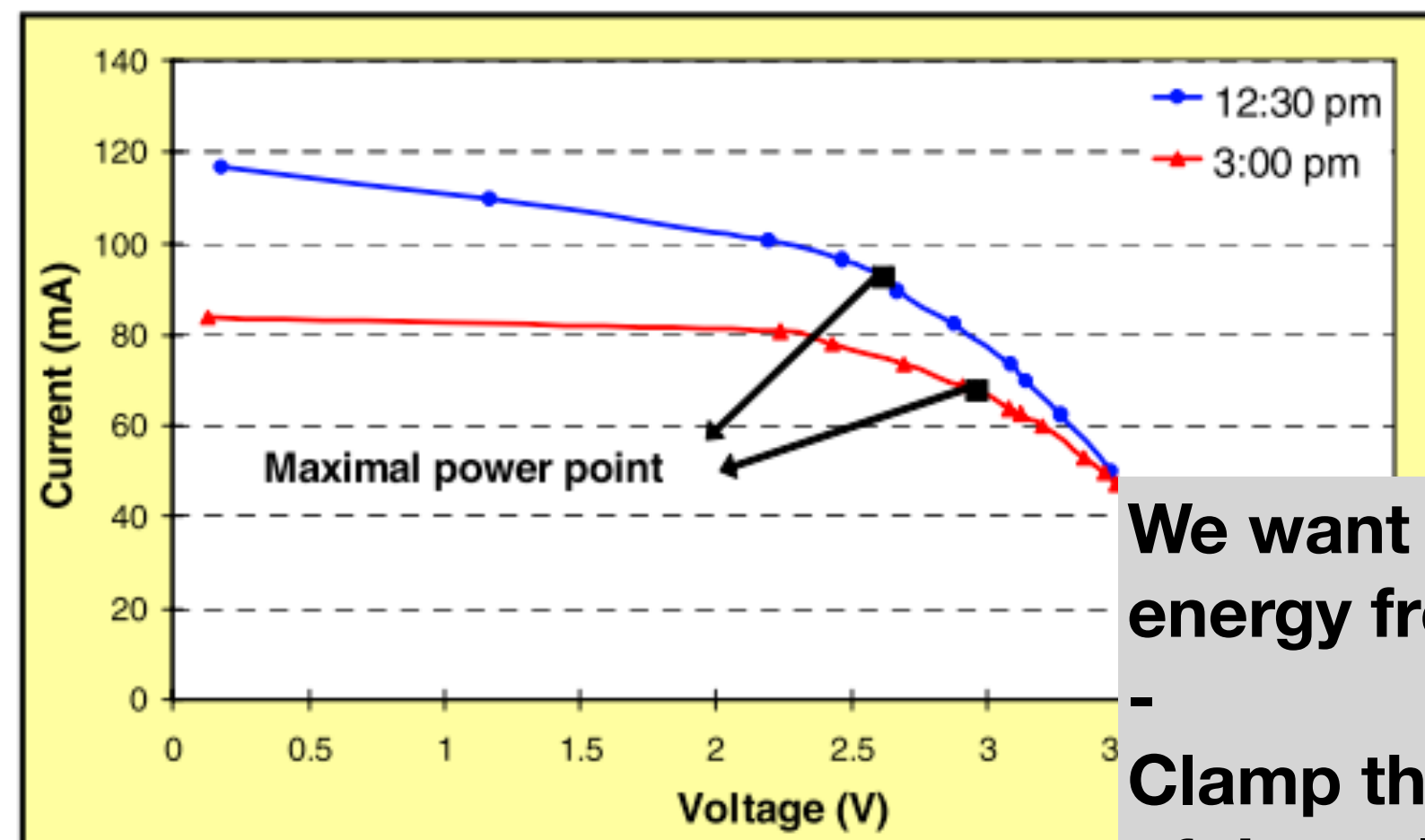


# Solar Energy Harvesting

## The “energy router” - Harvesting Circuit

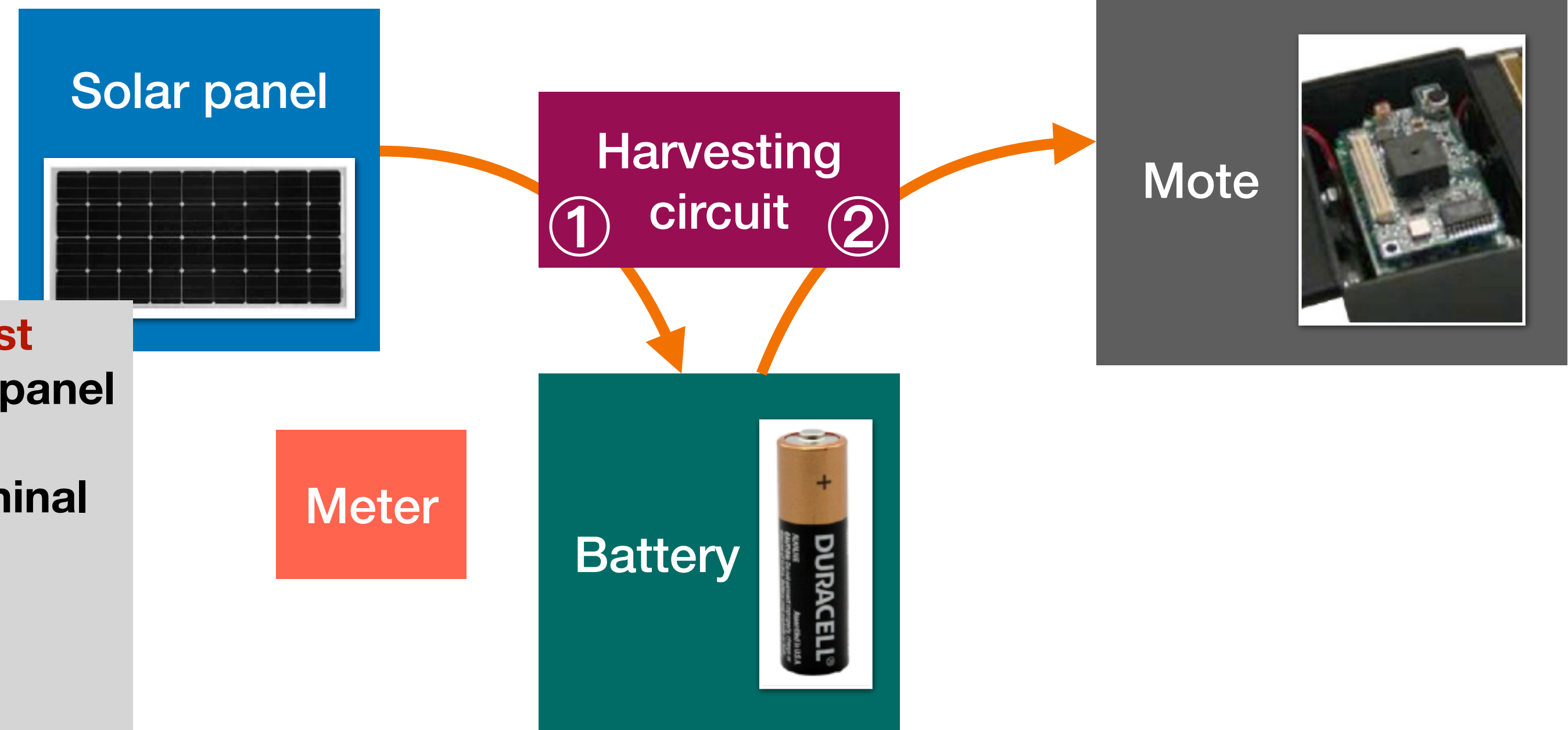
- It has two jobs:
  - ① Draw energy from solar panel and charge the battery



We want **draw the most** energy from the solar panel

- Clamp the output terminal of the solar panel to **the max power point**

- It is approximately **a fixed voltage**



# Solar Energy Harvesting

## The “energy router” - Harvesting Circuit

- It has two jobs:
  - ② power the mote - with a stable voltage
- Generally a DC-DC converter

However may need  
**Step-up/step-down/both**  
converter

-  
because the  
**battery output voltage**  
**is changing**  
with its capacity

