BATCH-6

PROJECT NAME : BATTERY CHARGING FORM SOLARPANEL

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AIM:

To create a functional battery charagingsystem using a solar panel in cisco packet tracer.

PROBLEM STATEMENT:

Design and simulate a system where a solar panel generates electricity and charges a battery.

SCOPE OF THE SOLUTION:

- Simulate the solar panel as an energy source.
- Simulate the battery as an energy storage unit.
- Implement a charge controller to regulate energy flow.
- Monitor power flow and observe the charging process.

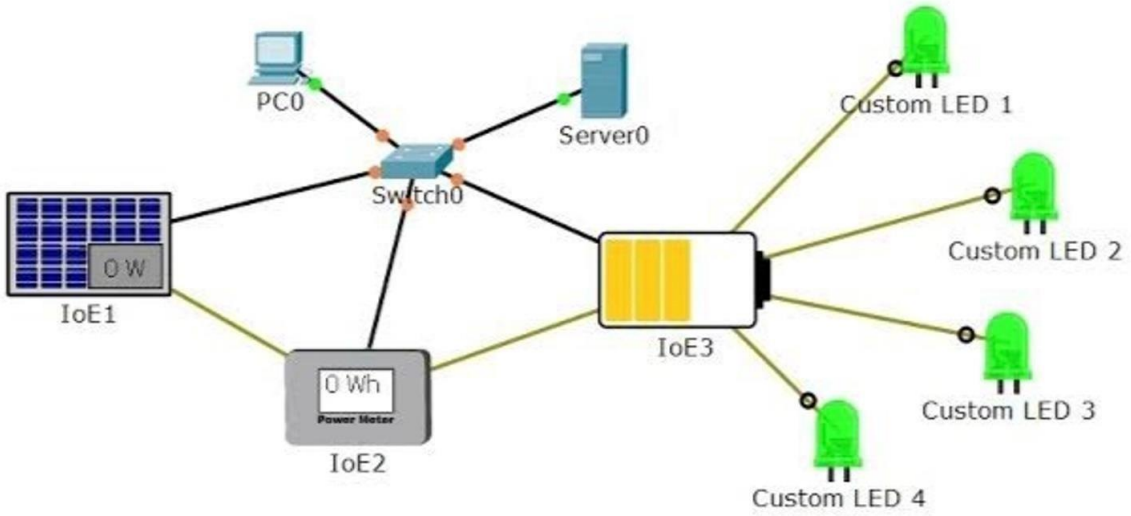
REQUIRED COMPONENTS:

1. Solar panel: Represents the solar energy source.
2. Battery: Represent the energy storage.
3. Power meter: Monitor power flow.
4. Switch: Control the power flow.
5. Server: Network for computer.
6. PC: Personal computer.

7. Led: Light emitting diode.
8. IOT Custom cable: connecting the divices
9. Copper straight -through wire: To connect the solar panel and power meter and battery and led.

SIMULATED CIRCUIT:

1. Connect the solar panel to the power meter ‘
2. Power meter is connected to the battery.
3. Battery is connected to the led light.
4. Switch is connected to the PC, Server , solar panel ,battery ,power meter.



CONCLUSION:

The battery system that was designed and set up in this project is a working system that can be used to charge a battery using energy from a solar panel. The system is easy to set up and use, and it can be used to power devices even when there is no access to the grid.