

1. OVERVIEW & SYSTEM CONFIGURATIONS

When choosing a solar energy system in Pakistan, homeowners and businesses must decide between three primary configurations: On-Grid, Hybrid, and Off-Grid. Each setup serves distinct energy requirements, backup needs, and investment budgets.

2. SYSTEM TYPES AT A GLANCE

Feature	On-Grid Solar	Hybrid Solar	Off-Grid Solar
Grid Connection	Yes	Yes	No (Standalone)
Battery Storage	No (Optional micro-backup)	Yes (Lithium / Tubular)	Yes (Heavy Battery Bank)
Outage Backup	Shuts down during outage	Instant Uninterrupted Backup	Full 24/7 Power
Primary Goal	Bill Reduction / Net Billing	Bill Savings + Load-shedding	Total Energy Independence
Upfront Cost	Lowest	Moderate to Higher	Highest

3. DETAILED BREAKDOWN OF EACH SYSTEM

A. On-Grid Solar Systems (Best for Daytime Bill Reduction)

On-grid systems operate in sync with the electrical utility grid. Daytime solar generation directly powers household or commercial loads (air conditioners, fans, pumps, machinery). Surplus power is exported to the grid via Net Billing.

B. Hybrid Solar Systems (Best for Bill Savings + Battery Backup)

Hybrid systems combine solar generation, grid connectivity, and lithium battery storage. During load-shedding or nighttime, the hybrid inverter seamlessly switches to battery power to keep essential ACs, lights, and appliances running without interruption.

C. Off-Grid Solar Systems (Best for Remote Locations)

Off-grid systems are designed for farmhouses, agricultural tubewells, or remote sites with no grid access. Heavy battery banks store all energy required for day and night operation.

OFFICIAL CONTACT & BRANCH LOCATIONS

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