

RESIDENTIAL SOLAR PV ENERGY SOLUTIONS

GRID-BACKUP
GRID-INTERACTIVE

GRID-TIE
OFF-GRID



PHOTOVOLTAIC PANELS, GENERATORS,
BATTERY BACKUP, HYBRID SYSTEMS,
ENERGY METERING

APPLICATIONS:

ROOFTOPS, CAR PORTS, FREE-STANDING STRUCTURES,
RANGE FROM **1kW TO 30kW**

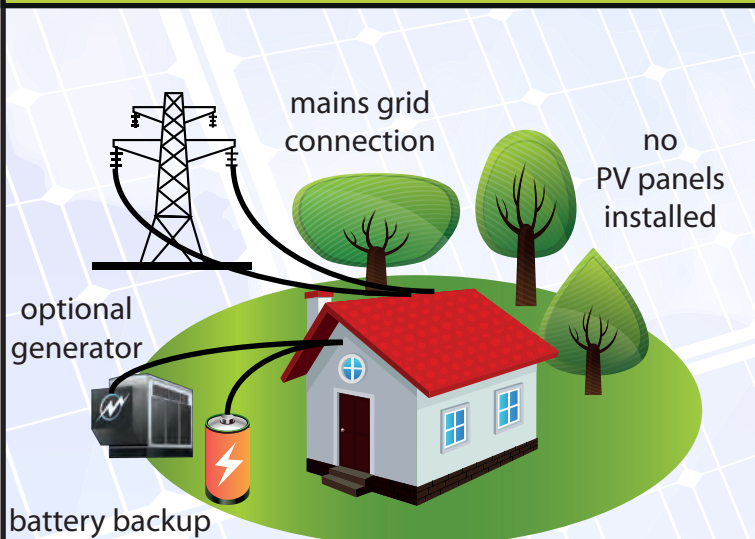
BENEFITS:

PROTECTION OF ELECTRICAL AND ELECTRONIC
EQUIPMENT, ELECTRICITY COST SAVINGS,
CONTINUOUS POWER DURING LOAD-SHEDDING
VALUE ADD:

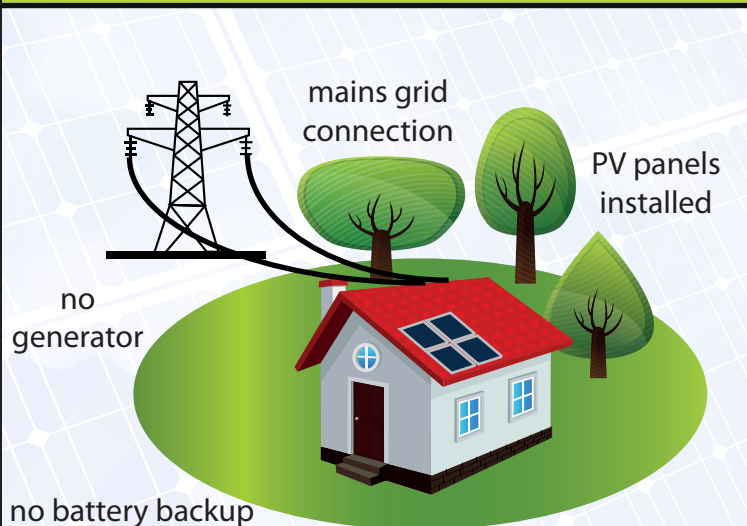
ENGINEERING SIGN-OFF, ELECTRICAL CERTIFICATE OF
COMPLIANCE (COC), LOAD MANAGEMENT &
AUTOMATIC SWITCHING, ONLINE MONITORING AND
DATA LOGGING.

OPTIONS:

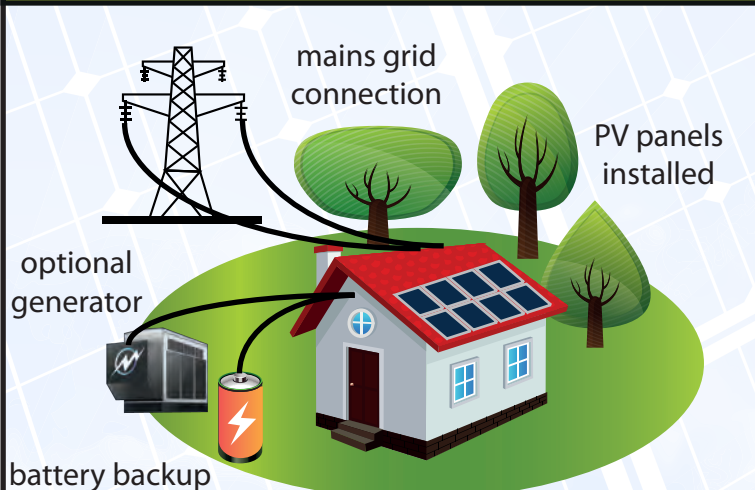
GRID BACKUP



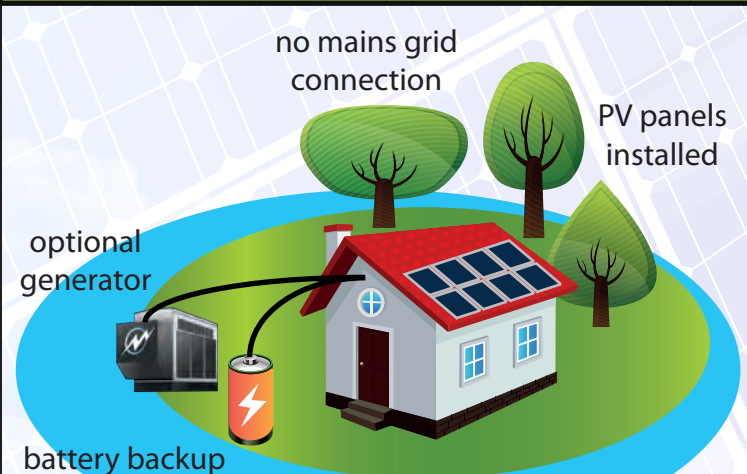
GRID-TIE



GRID-INTERACTIVE

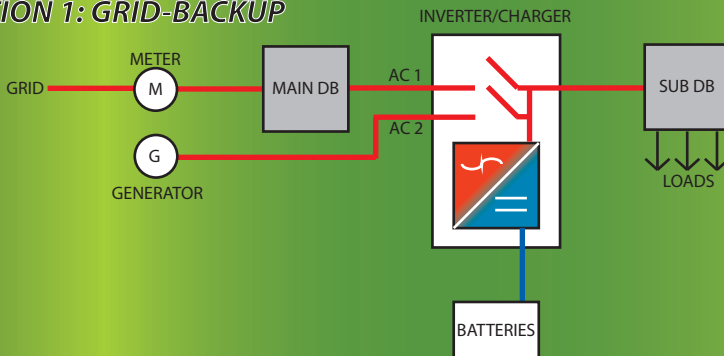


OFF-GRID



DESCRIPTION OF OPTIONS:

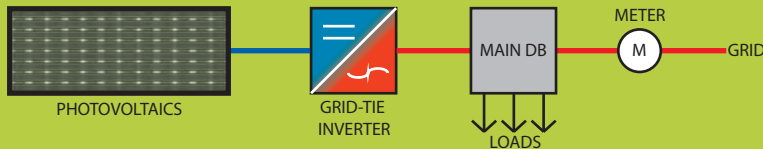
OPTION 1: GRID-BACKUP



OPTION 1: GRID BACKUP --> BENEFITS

1. SECURITY FROM GRID OUTAGE WITH RELIABLE BATTERY BACKUP AND SEAMLESS SWITCHOVER (REDUCE IMPACT OF LOAD-SHEDDING).
2. INTEGRATE DIESEL GENERATOR FOR LONGER AUTONOMY.
3. NO PV PANELS.
4. POWERFULL LOAD STARTING CAPABILITIES OF INVERTER.

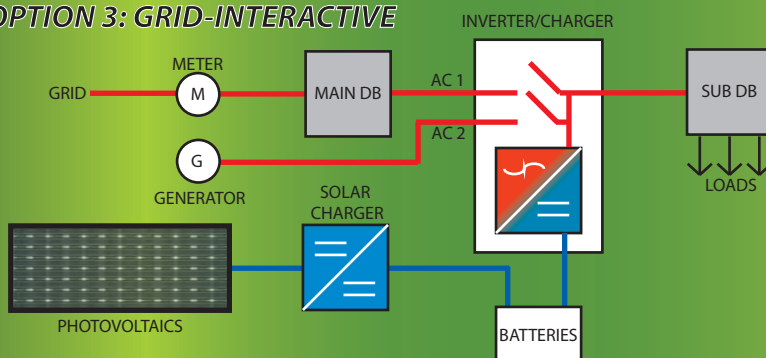
OPTION 2: GRID-TIE



OPTION 2: GRID TIE --> BENEFITS

1. REDUCE ELECTRICITY BILL.
2. NO BATTERIES
3. MINIMAL INDOOR SPACE REQUIREMENTS.

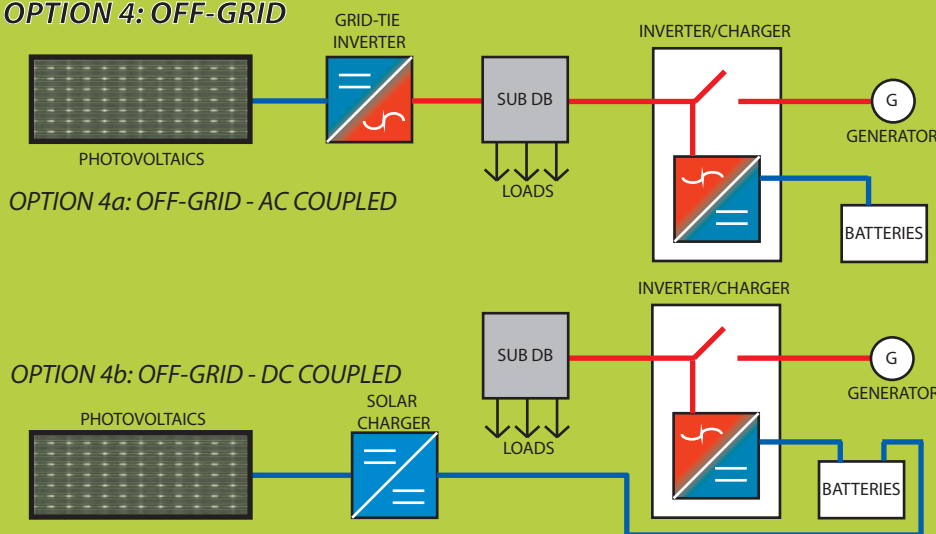
OPTION 3: GRID-INTERACTIVE



OPTION 3: GRID INTERACTIVE --> BENEFITS

1. REDUCE ELECTRICITY BILL.
2. PRIORITIZE CONSUMPTION OF SOLAR POWER.
3. SECURITY FROM GRID OUTAGE WITH RELIABLE BATTERY BACKUP AND SEAMLESS SWITCHOVER (REDUCE IMPACT OF LOAD-SHEDDING).
6. POWERFULL LOAD STARTING CAPABILITIES OF INVERTER.
7. INTEGRATE DIESEL GENERATOR FOR LONGER AUTONOMY.

OPTION 4: OFF-GRID



OPTION 4: OFF-GRID --> BENEFITS

1. NO ELECTRICITY BILL.
2. INDEPENDENT FROM EXTERNAL ENERGY SUPPLIES.
3. POWERFULL LOAD STARTING CAPABILITIES OF INVERTER.
4. AC COUPLING WHEN PV ARRAY FAR FROM BATTERY BANK.
5. OPTION TO INTEGRATE DIESEL GENERATOR.

Energy Insight provides the total solution for sizes ranging from **1kW to 30kW**, from site measurement and assessment, designs and simulations (Cost and Space Optimization, shading analysis, etc.), proposals (including ROI), supply and installation.