

BRIGHTWAY ENERGY

Electrical End to End Solutions

PROFESSIONAL ELECTRICAL & POWER SOLUTIONS CATALOGUE

Electrical Panels • Automation • Power Distribution • DG & Transformers • Electrical Products Export

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02 | About Brightway Energy

Engineering confidence from concept to commissioning

Brightway Energy provides end-to-end electrical solutions for residential, commercial and industrial applications. Our scope combines electrical panel manufacturing, automation, power distribution equipment, supply, service and export support.



Our approach

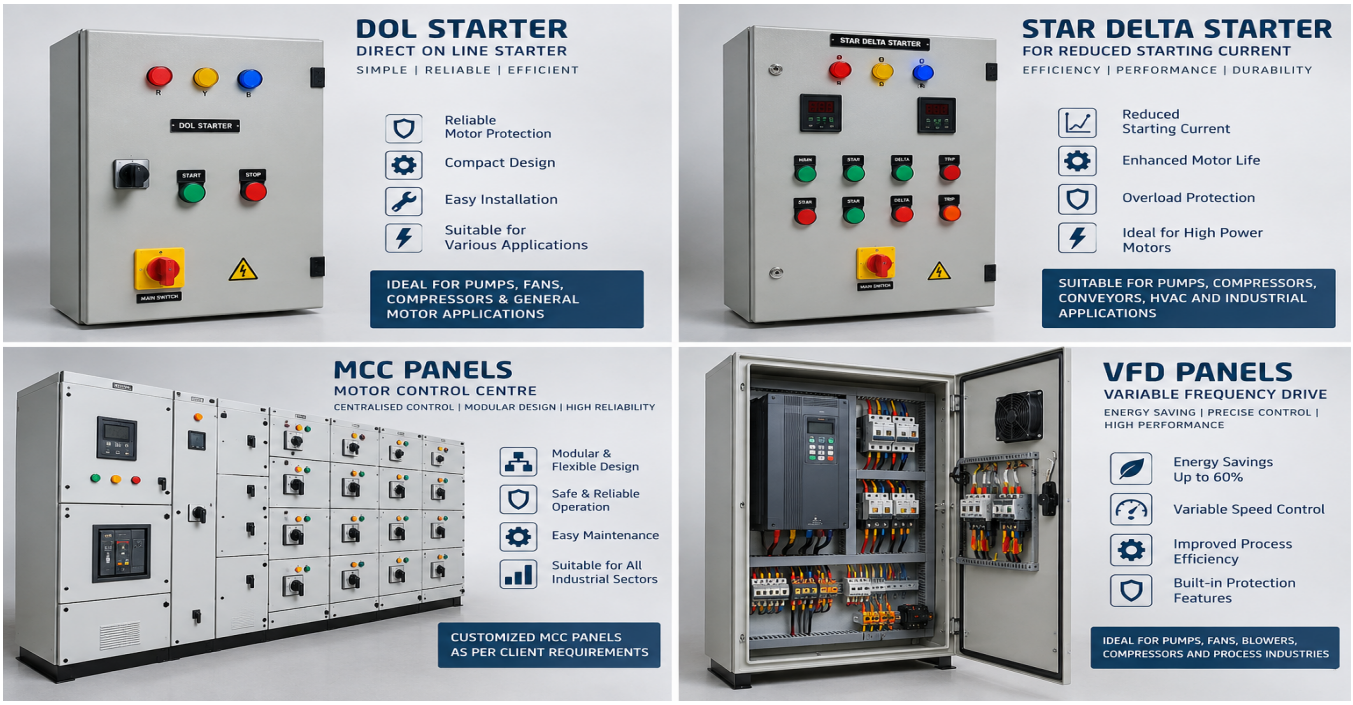
- Understand the application and load requirements
- Engineer practical, maintainable and scalable solutions
- Use quality switchgear, control components and structured wiring practices
- Support testing, commissioning, troubleshooting and project documentation
- Supply and export electrical products with coordinated logistics

Core sectors: water & wastewater, manufacturing, commercial buildings, infrastructure, utilities, pumping, process industries and backup power.

03 | DOL Starters

Direct-on-Line motor control — simple, robust and service-friendly.

Brightway Energy DOL starter panels provide straightforward starting and stopping of motors where direct starting current is acceptable. Designs can be engineered for pumps, fans, compressors, blowers and general industrial motor loads.



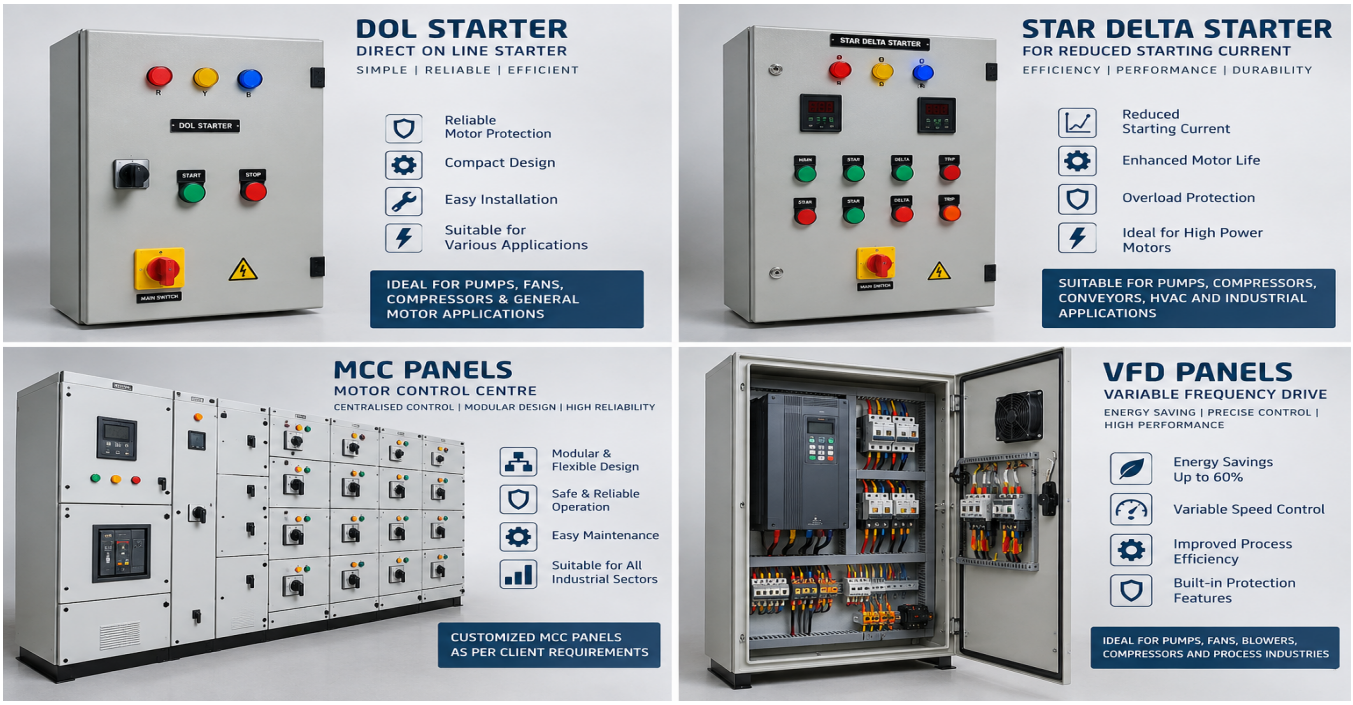
Key advantages & applications

- Contactor and overload protection arranged for reliable motor control
- Local START/STOP operation with indication and isolator options
- Customized enclosure, ingress protection and control voltage options
- Suitable for pump, fan, compressor and auxiliary motor applications
- Available in metal or FRP enclosure formats as required

04 | Star-Delta Starters

Reduced starting current for suitable three-phase motors.

Star-delta starter panels are designed to reduce motor starting current and mechanical stress during acceleration. Brightway Energy can configure automatic or application-specific sequencing with protection and indication.



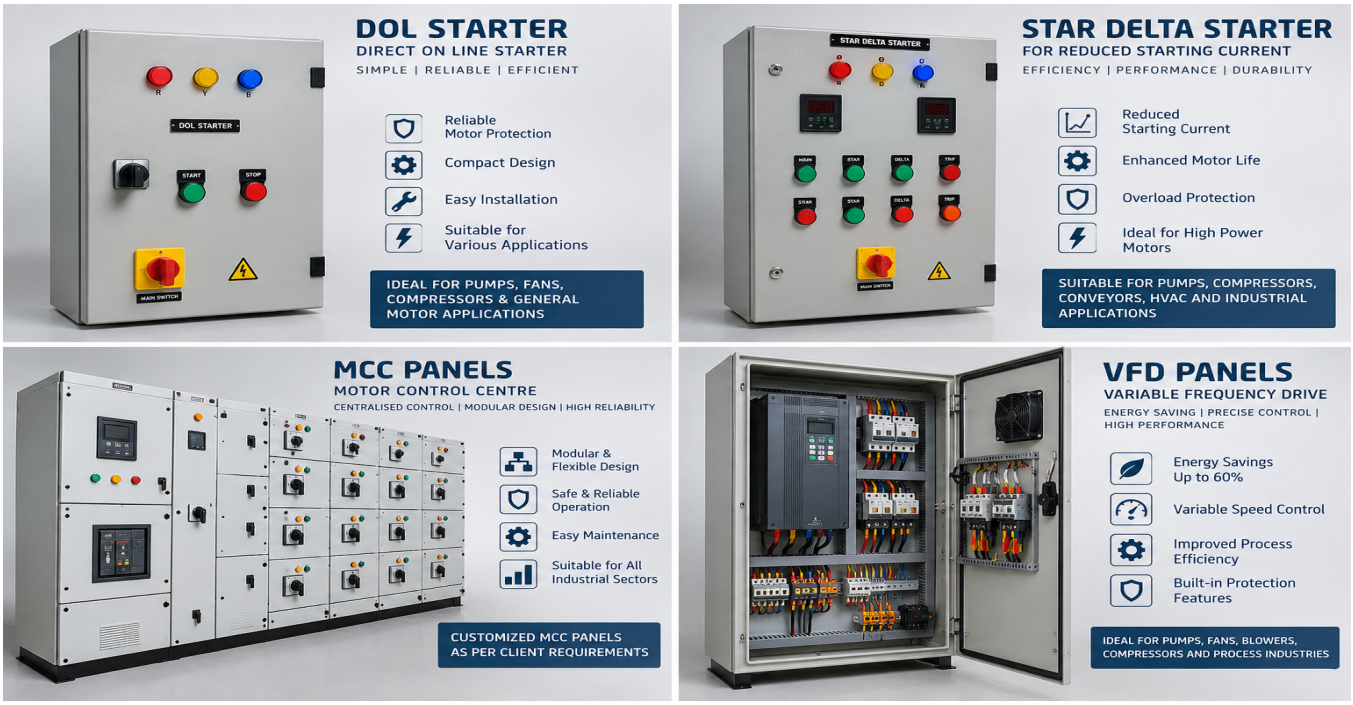
Key advantages & applications

- Reduced starting current compared with direct starting
- Timer-based automatic star-to-delta transition
- Overload, short-circuit and phase-failure protection options
- Suitable for pumps, compressors, conveyors and HVAC systems
- Custom control logic and panel layouts to suit the motor and site

05 | MCC Panels

Centralized motor control for demanding industrial installations.

MCC panels provide organized, accessible and scalable control of multiple motor feeders and electrical loads. Brightway Energy designs modular assemblies around project requirements, feeder philosophy and maintenance access.



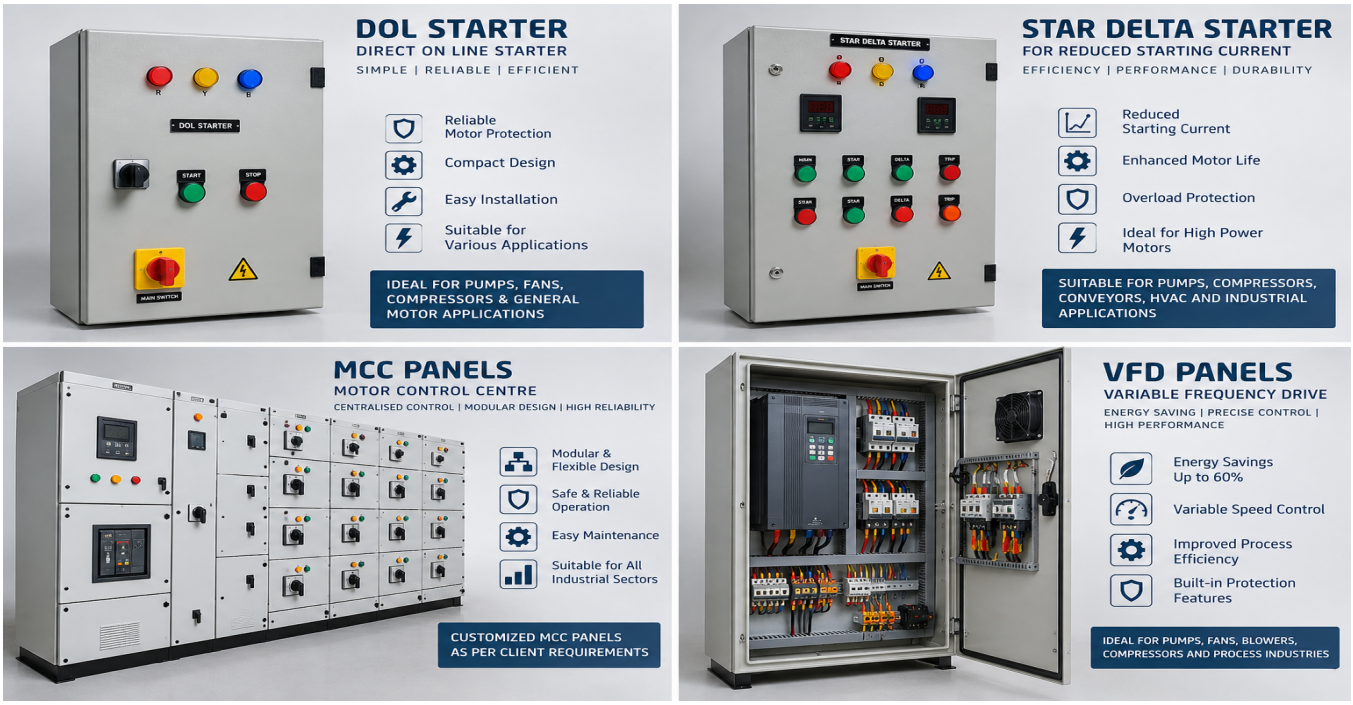
Key advantages & applications

- Multiple motor feeders in a coordinated modular arrangement
- MCCB/MCB/ACB and motor protection combinations as required
- DOL, star-delta, soft-starter and VFD feeder integration
- Metering, indication, interlocking and control provisions
- Engineered for industrial, infrastructure and process applications

06 | VFD Panels

Precise speed control, process optimization and energy-conscious operation.

Variable Frequency Drive panels combine VFDs, protection, isolation, control, cooling and organized field wiring in a single engineered enclosure. They are ideal where motor speed, ramping or process control is important.



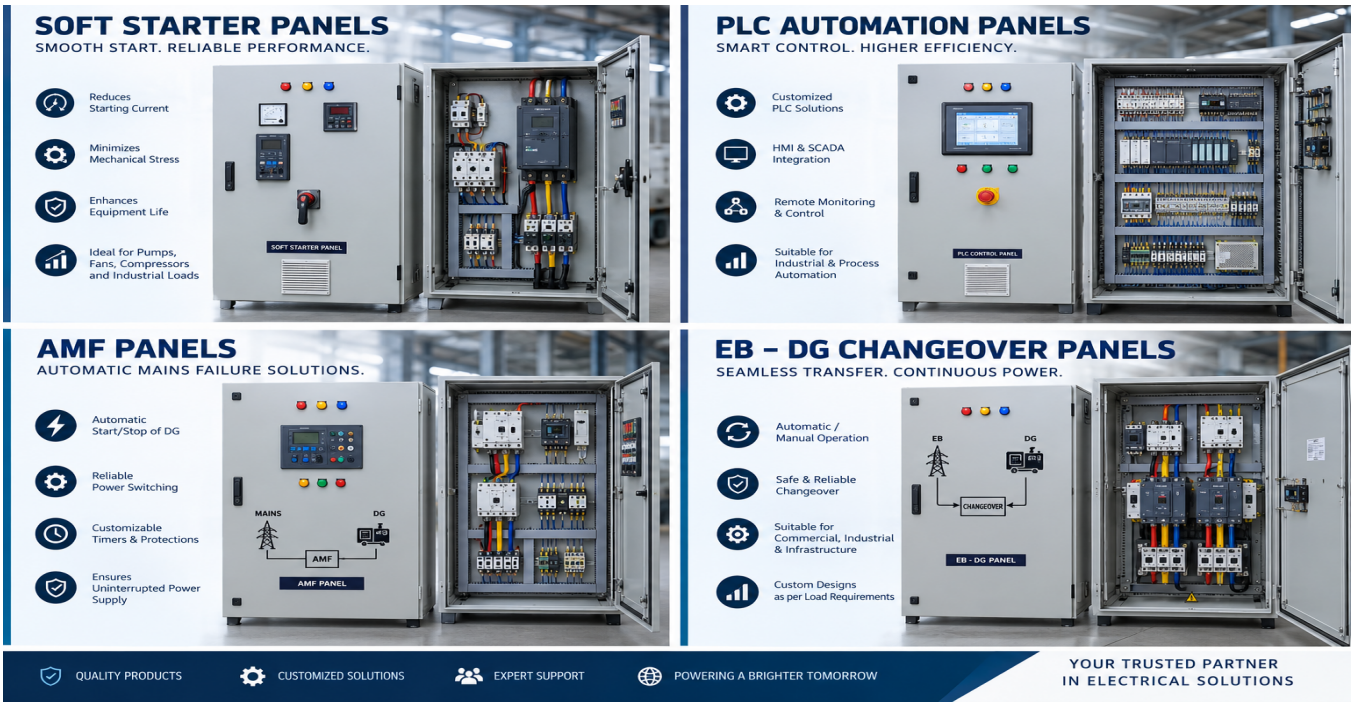
Key advantages & applications

- Adjustable motor speed and acceleration/deceleration
- Improved process control for pumps, fans and conveyors
- Drive protection, bypass and manual/auto options where required
- PLC/HMI and remote signal integration
- Suitable for water, HVAC, manufacturing and process applications

07 | Soft Starter Panels

Smooth acceleration with reduced mechanical stress.

Soft starter panels control motor acceleration and deceleration electronically, helping reduce starting shock and mechanical stress. They are a practical solution for applications that do not require continuous variable-speed operation.



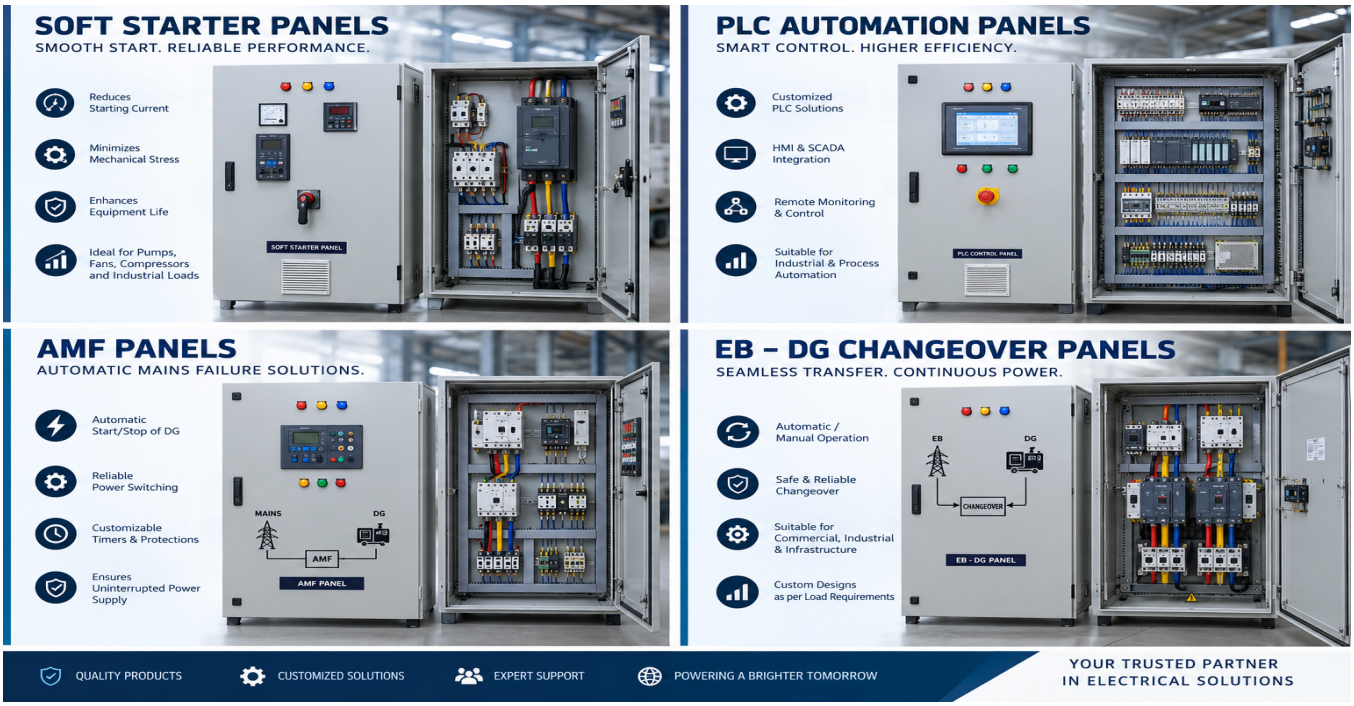
Key advantages & applications

- Controlled motor ramp-up and ramp-down
- Reduced mechanical shock to pumps and driven equipment
- Reduced starting stress on the electrical system
- Compact, maintainable panel architecture
- Suitable for pumps, fans, compressors and industrial loads

08 | PLC Automation Panels

Smart control, sequencing and process automation.

Brightway Energy develops PLC-based control panels for machine and process automation. Solutions can include PLC, HMI, SCADA communication, field I/O, instrumentation interfaces, interlocks and customized control sequences.



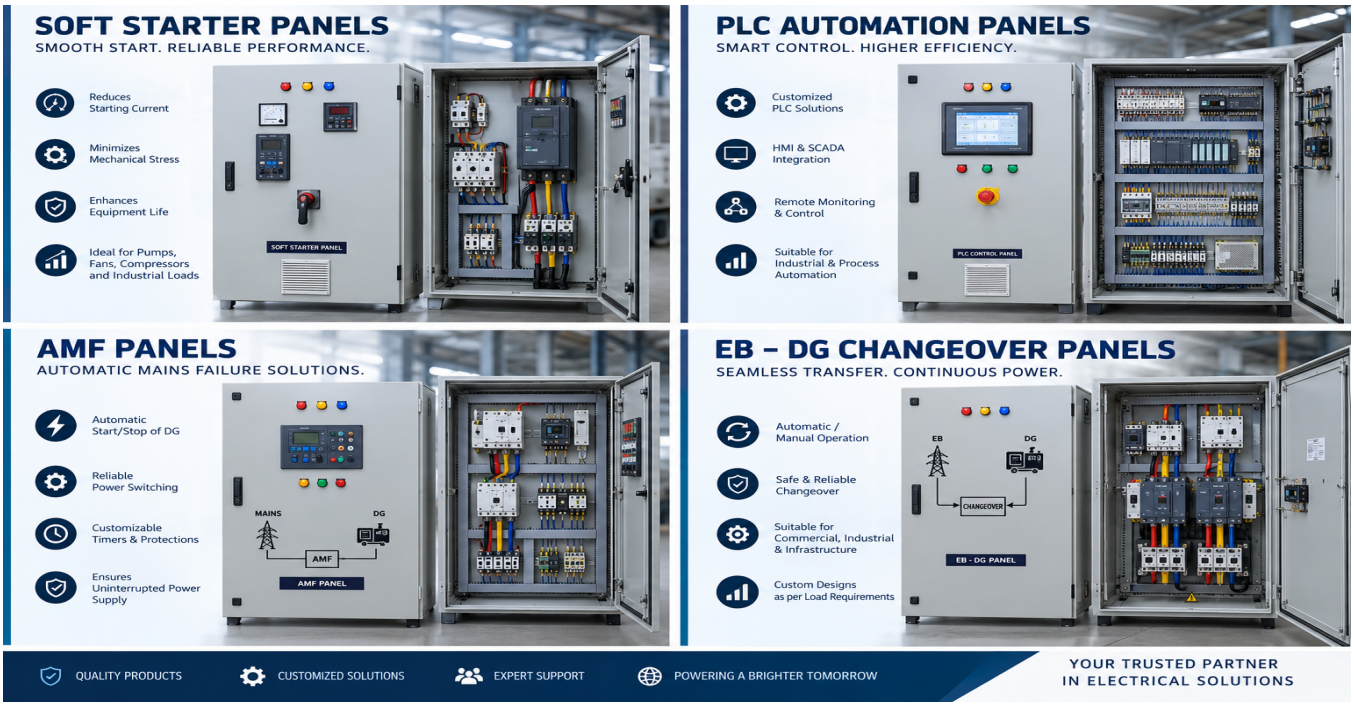
Key advantages & applications

- PLC-based automatic and semi-automatic sequences
- HMI/SCADA integration and operator-friendly visualization
- Digital and analog I/O with organized terminal management
- Interlocking, alarms, permissives and process logic
- Remote monitoring and communication options based on project scope

09 | AMF Panels

Automatic mains failure control for dependable standby power.

AMF panels coordinate mains and generator operation by monitoring supply conditions and controlling automatic generator start/stop and transfer logic. Designs are matched to the DG, load and changeover philosophy.



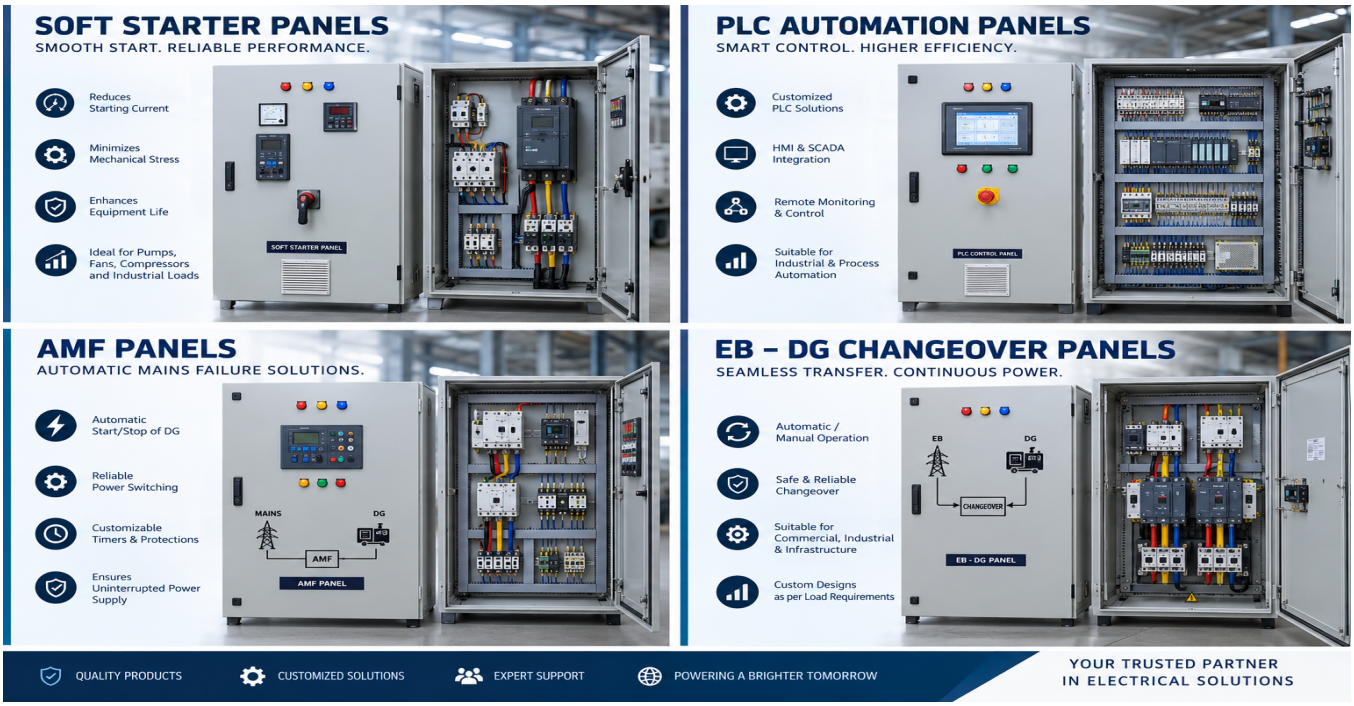
Key advantages & applications

- Automatic mains monitoring and DG start/stop control
- Manual and automatic operating modes
- Generator and mains protection interfaces
- Timer, alarm and indication provisions
- Suitable for commercial, industrial and infrastructure backup power

10 | EB–DG Changeover Panels

Reliable transfer between utility supply and diesel generation.

EB-DG changeover panels provide controlled transfer between electricity-board supply and generator supply. Brightway Energy can engineer automatic or manual changeover arrangements according to the project load and operating philosophy.



Key advantages & applications

- Safe interlocked mains/DG source selection
- Automatic or manual operating arrangements
- Protection, metering and source indication options
- Designed around project load and generator capacity
- Suitable for commercial, industrial and infrastructure installations

11 | Transformers & DG Sets

Power conversion and dependable standby generation

Brightway Energy supports transformer supply and diesel generator requirements for new installations, replacement projects and expansion works. Equipment selection is coordinated with load, voltage, duty, site conditions and application.

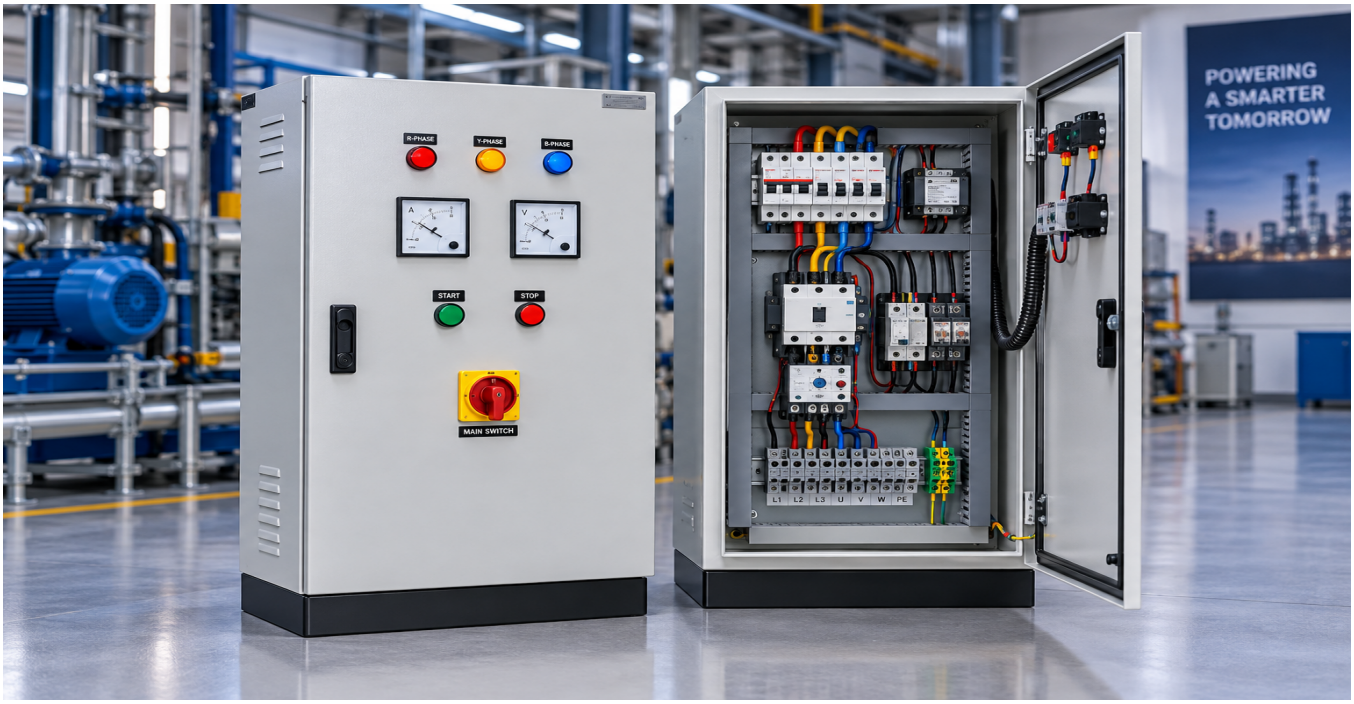


Transformers Supply	DG Sets Supply
• Distribution and application-specific transformer sourcing • Capacity and voltage matching • Supply coordination and support • Suitable for industrial and commercial projects	• Wide range of DG capacities • Prime and standby power applications • AMF/ATS integration support • Installation and after-sales coordination

12 | Electrical Products Export

Global sourcing. Coordinated supply. Reliable documentation.

Brightway Energy supplies and exports a broad range of electrical products, switchgear, control components and industrial electrical materials. We can coordinate product identification, sourcing, packing and export documentation according to the shipment requirement.



Product categories

- MCB, MCCB, ACB, VCB and isolators
- Contactors, overload relays, control relays and accessories
- Fuses, indication lamps, push buttons and control accessories
- Electrical panels, automation components and spare parts
- Copper busbars, enclosures and panel-building accessories
- Motors, pumps, VFDs, soft starters and related equipment
- Project-specific electrical items sourced to specification

Export support: product coordination • commercial documentation • packing • freight coordination • shipment support • application-based sourcing.

13 | Complete Electrical Support

From engineering and panel building to supply, service and export



Panel Engineering	GA drawings, SLDs, BOQ/BOM, control philosophy and customized panel layouts.
Manufacturing	DOL, star-delta, MCC, VFD, soft starter, PLC, AMF and EB-DG panels.
Automation	PLC programming, HMI/SCADA integration, process control and technical support.
Power Equipment	Transformers, DG sets, motors, pumps, VFDs and electrical switchgear.
Service & Support	Testing support, troubleshooting, commissioning assistance and project coordination.
Export	Electrical product sourcing, packing, documentation and international shipment coordination.

CONTACT BRIGHTWAY ENERGY

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Electrical End to End Solutions for Residential, Commercial & Industrial Sectors

Together for a Brighter Tomorrow.



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