



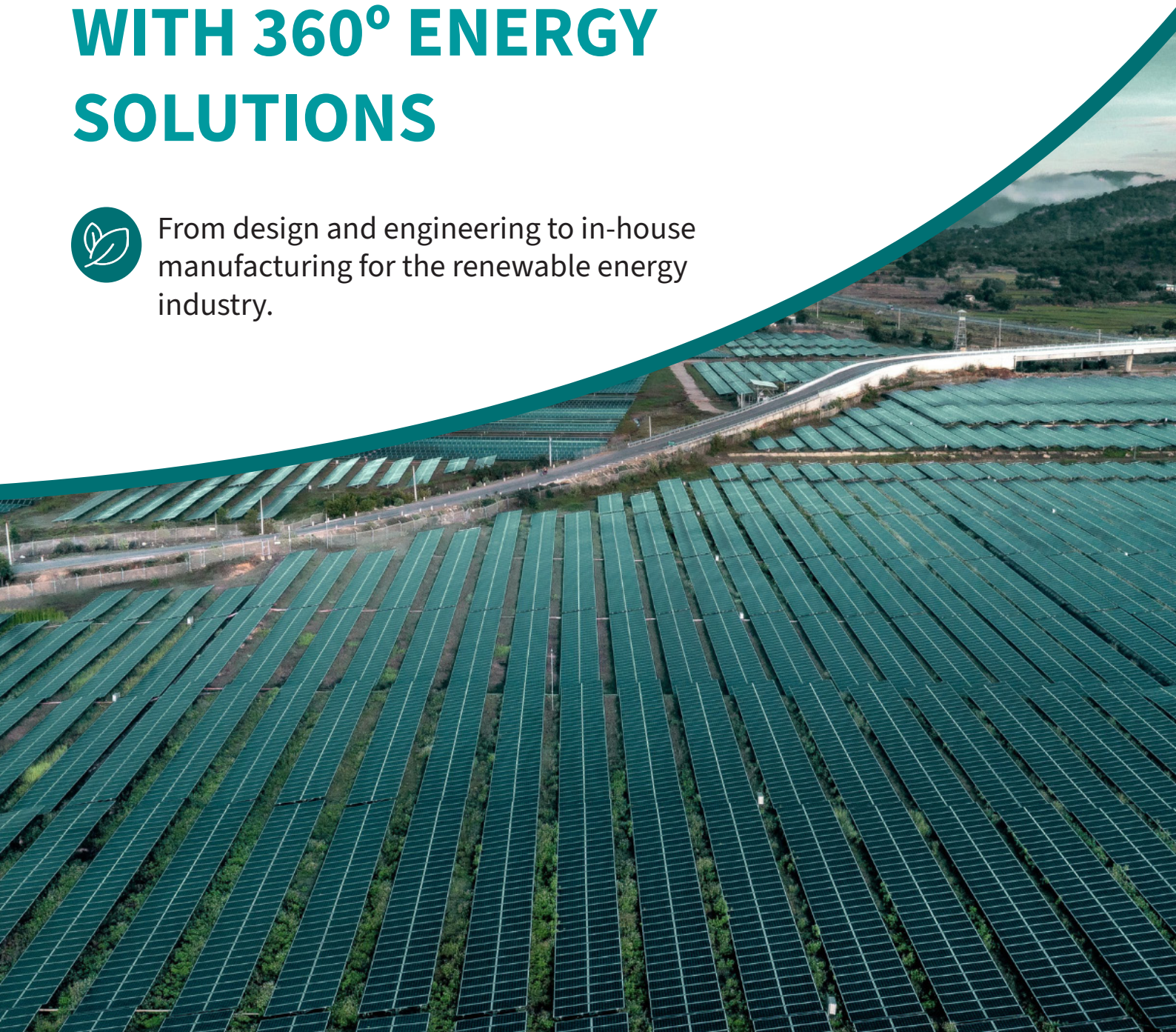
mtech
group

POWERING THE FUTURE

WITH 360° ENERGY SOLUTIONS



From design and engineering to in-house manufacturing for the renewable energy industry.

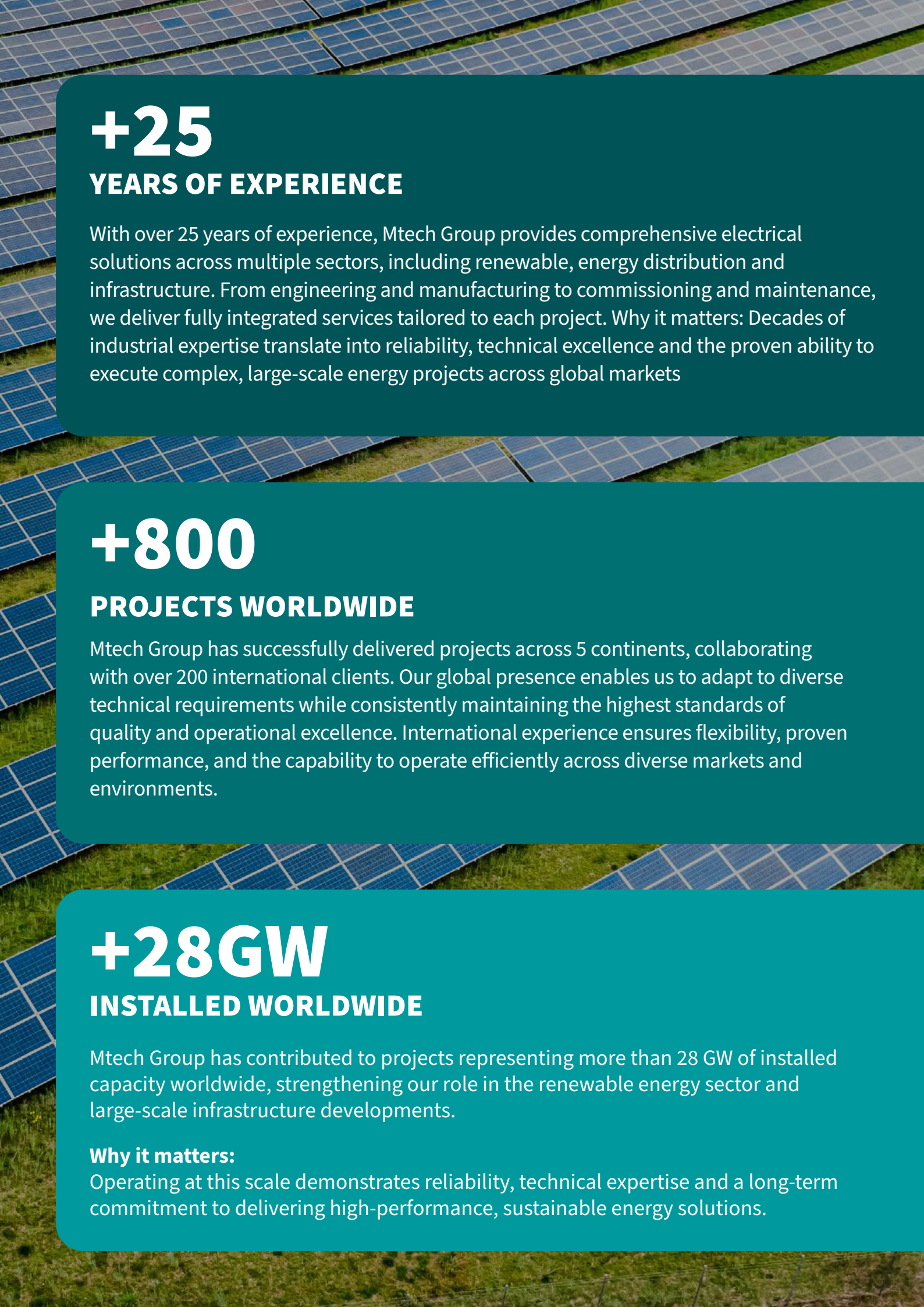




ENERGY SOLUTIONS ARE NOT JUST DELIVERED

THEY ARE DESIGNED, ENGINEERED AND MANUFACTURED TO PERFORM

At Mtech Group, with **more than 25 years of experience**, we transform energy into integrated solutions through design, engineering and in-house manufacturing. Our industrial expertise and strong commitment to innovation enable us to develop advanced electrical systems for the renewable energy sector, delivering the highest standards of quality, efficiency, reliability and performance.



+25

YEARS OF EXPERIENCE

With over 25 years of experience, Mtech Group provides comprehensive electrical solutions across multiple sectors, including renewable, energy distribution and infrastructure. From engineering and manufacturing to commissioning and maintenance, we deliver fully integrated services tailored to each project. Why it matters: Decades of industrial expertise translate into reliability, technical excellence and the proven ability to execute complex, large-scale energy projects across global markets

+800

PROJECTS WORLDWIDE

Mtech Group has successfully delivered projects across 5 continents, collaborating with over 200 international clients. Our global presence enables us to adapt to diverse technical requirements while consistently maintaining the highest standards of quality and operational excellence. International experience ensures flexibility, proven performance, and the capability to operate efficiently across diverse markets and environments.

+28GW

INSTALLED WORLDWIDE

Mtech Group has contributed to projects representing more than 28 GW of installed capacity worldwide, strengthening our role in the renewable energy sector and large-scale infrastructure developments.

Why it matters:

Operating at this scale demonstrates reliability, technical expertise and a long-term commitment to delivering high-performance, sustainable energy solutions.

OUR ENERGY TODAY: WHAT DEFINES US



16.500 m²

TOTAL FACTORY
SPACE



400

FTE



50

ENGINEERS
ON STAFF



+

350

FTE



+65%

EXPORTED
PRODUCTION

OUR OFFICES



15.500 m²

MADRID

- HQ Office
- Factory in Pinto



1.500 m²

BILBAO

- Office
- Factory in Zamudio



VALENCIA

- Comercial Office



AUSTRALIA

- Comercial Office

OUR PRODUCTION



2300

Annual electrical panels



2250m³

Storage capacity



1730

Pallet storage capacity



10

Autonomous production units



2

Overhead cranes 10 & 43 TN

OUR CAPABILITIES

ENGINEERING CAPABILITIES



TOOLS USED

- AutoCAD
- EPLAN
- SolidWorks
- Lantek



ENGINEERING DISCIPLINES

- Electrical Engineering
- Mechanical Engineering
- Civil Engineering

MANUFACTURING CAPABILITIES



MACHINING

CNC centers for polyester and polycarbonate



WIRING

Automatic machinery (Komax Z650) and semi-automatic equipment



SHEET METAL PROCESSING

- Punching
- Bending
- Welding and Laser Cutting



IN HOUSE METAL FABRICATION

Full control of the production process ensuring quality and flexibility



INVERTER MANUFACTURING

Full traceability and quality control.

OUR PRODUCTION



QUALITY CONTROL

- Non conformity system
- Effective response to issues



PRODUCTIVITY CONTROL

Real-time monitoring



LOGISTICS MODELS

- Optimized logistics
- Efficient material management



HIGHLY QUALIFIED TEAM

Professionals with extensive experience, innovation, efficiency and execution focus

VALUE FOR THE COSTUMER



REDUCED
CAPEX & OPEX



SHORTER PROJECTS
SCHEDULES



LESS SITE RISK



HIGH
RELIABILITY



FLEXIBLE
DESIGN

360° SOLUTIONS

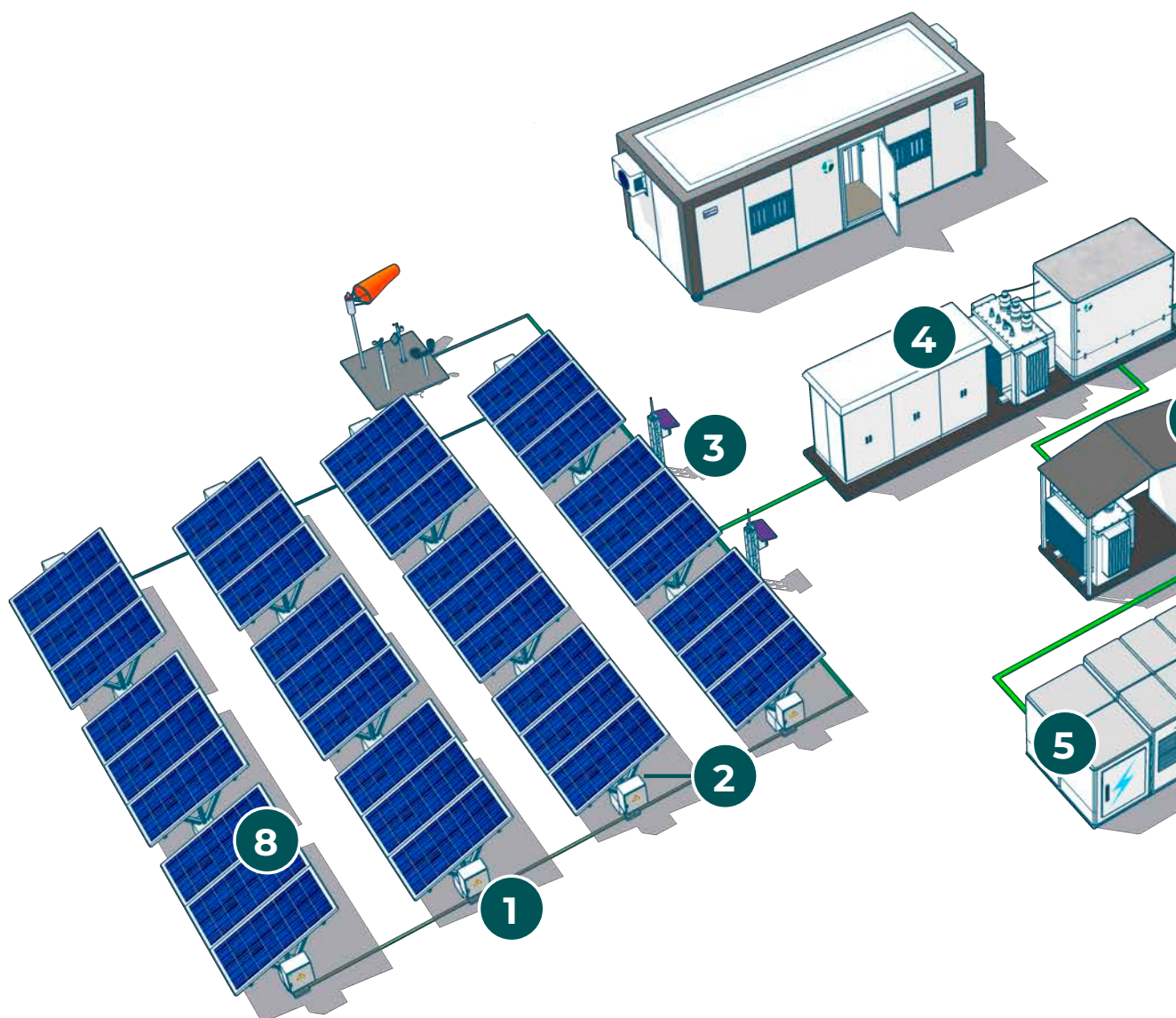
FOR THE RENEWABLE SECTOR

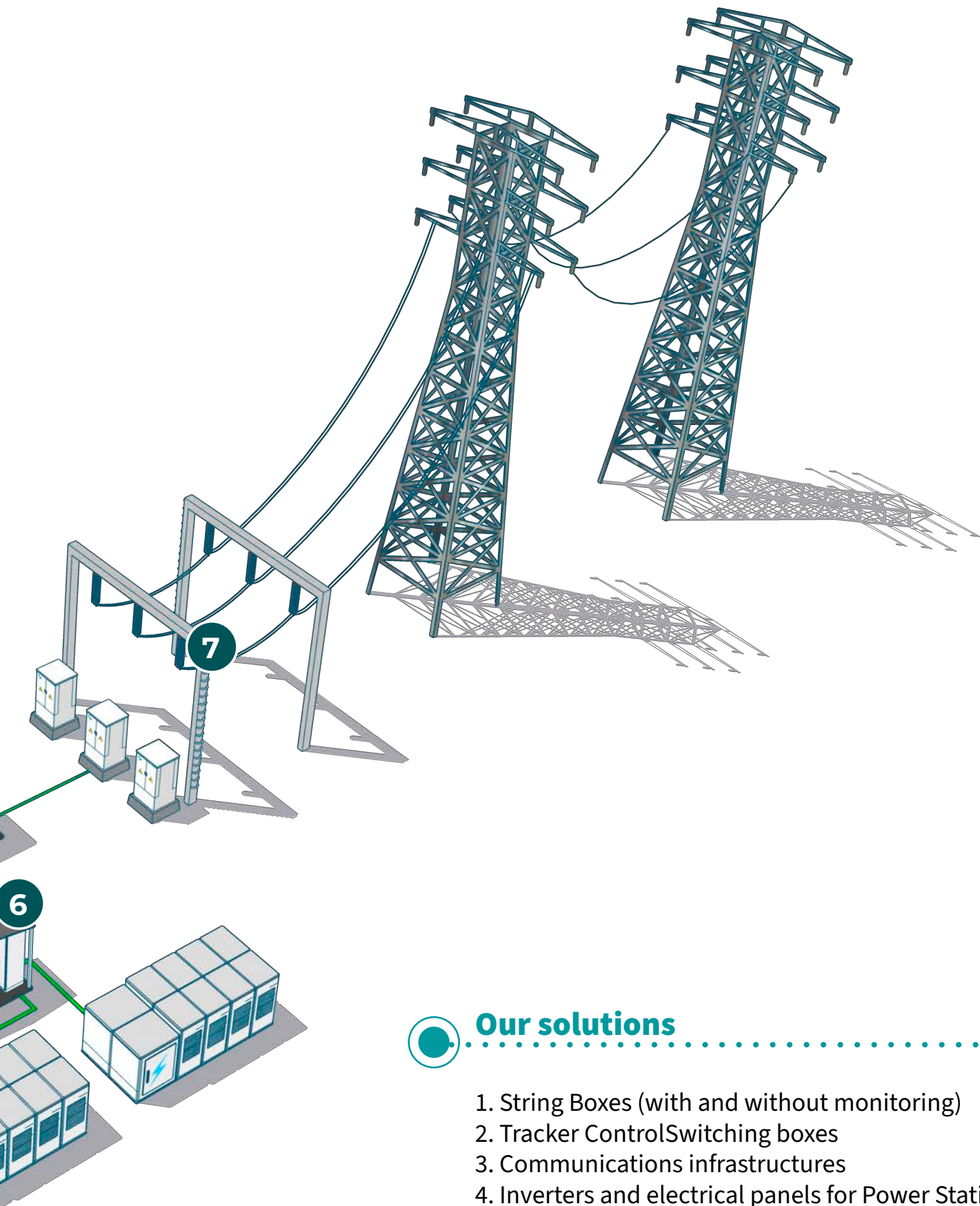
The products we offer have helped to bring the most complex projects in the sector to life

+600
projects
completed

+80K
string boxes
per year

+28GW
in installed
projects





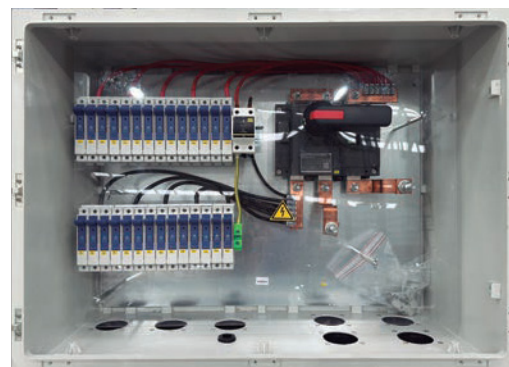
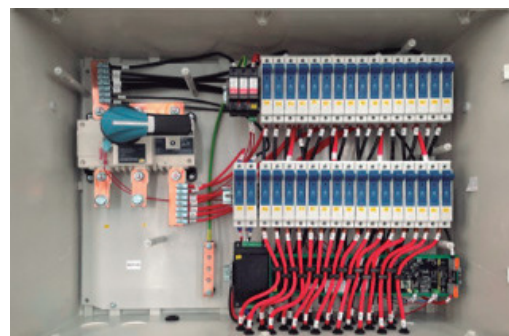
Our solutions

1. String Boxes (with and without monitoring)
2. Tracker Control Switching boxes
3. Communications infrastructures
4. Inverters and electrical panels for Power Stations
5. BESS
6. SKID AASS
7. Substation Engineering
8. Manufacture of Substation Panels

STRING COMBINER BOX CUSTOMIZED FOR YOU

SCBs are designed to combine and protect the energy produced by PV plants. At MTECH, we provide solutions in accordance with the needs of the customer.

We carry out an ad hoc design for each project, guaranteeing functionality and quality in compact, easy-to-install designs.

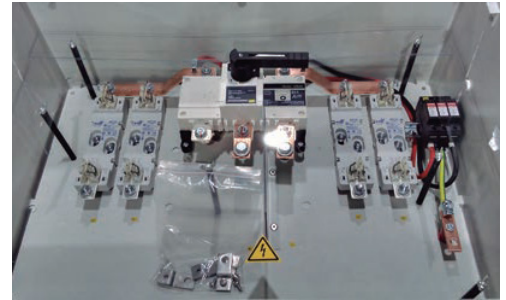
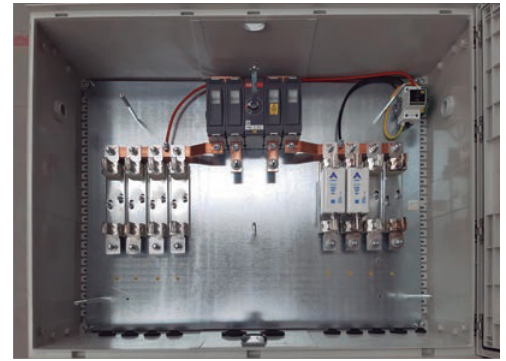


Generalities		Disconnecter Switch	
Voltage	1000V DC and 1500 DC	Amperage	400A - 630A
Strings	2 - 32 strings	Number of poles	2- 4, depends on the selected disconnecter
Enclosures		Breaking capacity	10 kA
Format	Portrait and Landscape	Rated impulse withstand voltage	12 kA
Optional	Support system for pile	Optional	Auxiliary contact
Material	Fiberglass-reinforced polyester Fire resistant (960°C IEC 62208)	Surge Protection	
Dimensions	Standardized according to manufacturer. Selected based on the space requirements of each project (75, 86, 108, etc.)	Type	400A - 630A
IP protection code (solids and liquids)	Up to IP66 IEC 60529	Optional	2- 4, depends on the selected disconnecter
IK protection code (mechanical impacts)	Up to IK10 IEC 62262	Nominal discharge current	10 kA
Operating temperaturae	Between -25° and 70°C (with fuse and power supply de-rating beginning at 40°).	Maximum discharge current	12 kA
Monitor (optional)		Protection Level (+/- PE)	Auxiliary contact
Maximum current per string	15 - 40 A, depending on the specific model. Determines the monitoring capacity, single or double.	Protections (Fuse holders/ fuse bases):	
Type	Shunt or Hall	Bases:	• Power source with independent 230V AC or 127V AC line. • Independent 24V DC continuous line.
Monitor type	Single or Double	Nominal voltage:	1000V - 1500V DC
Measurements	Amperage, Voltage and Temperature	Fuses:	2A - 100A
Optional	Disconnecter and Surge Protection status	Breaking capacity:	6 - 40 kA
Communication	RS485 MODBUS /Wireless (Lora) / Fiber-optic	LED lighting:	With/Without, to display functioning.
Maximum no. of strings	32 Max, depending on the specific model.	Power source / Different power source options are available:	• DC-DC self-generating power source: 1000V DC to 24V DC and 1,500V DC to 24V DC.
		Others:	String input: Cable glands, Fittings or MC 4 connectors. Wire: Solar cable with up to 1800V DC insulation Grounding: Screw, flat wire, terminal. etc
		Passive protection systems:	• IP55 aerators or IP66 pressure compensators. • IP20 protective polycarbonate for preventing direct contact between active parts.

JUNCTION DC BOX TRUNK SOLUTIONS

Junction DC Box are designed for the bundling of BUS cables, which in turn, group together the strings located along the length of a photovoltaic park upstream.

It also allows the protection of these cables and the opening of the circuit for maintenance operations.



Generalities	
Voltage	1000V DC and 1500 DC
Strings	1 - 6 inputs (each input combine several strings)
Enclosures	
Format	Portrait and Landscape
Optional	Support system for pile
Material	Fiberglass-reinforced polyester Fire resistant (960°C IEC 62208)
Dimensions	Standardized according to manufacturer. Selected based on the space requirements of each project (75, 86, 108, etc.)
IP protection code (solids and liquids)	Up to IP66 IEC 60529
IK protection code (mechanical impacts)	Up to IK10 IEC 62262
Operating temperature	Between -25° and 70°C (with fuse and power supply de-rating beginning at 40°).
Monitor (optional)	
Maximum current per string	400A Max, depending on the specific model
Type	Hall
Monitor type	Single
Measurements	Amperage, Voltage and Temperature
Optional	Disconnecter and Surge Protection status
Communication	RS485 MODBUS /Wireless (Lora) / Fiber-optic
Maximum no. of strings	6 Max, depending on the specific model.
Disconnecter Switch	
Amperage	400A - 630A
Number of poles	2, 3 or 4. Depending on the selected disconnecter.
Breaking capacity	10 kA
Rated impulse withstand voltage	12 kA
Optional	Auxiliary contact
Surge Protection	
Type	I or I + II
Optional	Auxiliary contact
Nominal discharge current	20 kA
Maximum discharge current	40 kA
Protection Level (+/- PE)	4.8 kV - 5 kV
Protections (Fuse holders/ fuse bases):	
Bases: NH1 XL, NH2 XL, NH3 L	• Independent 24V DC continuous line.
Nominal voltage: 1000V - 1500V DC	Others: Wire: Solar cable with up to 1800V DC insulation Grounding: Screw, flat wire, terminal. etc
Rated Current: 802A - 100A	
Breaking capacity: 6 - 40 kA	Passive protection systems: • IP55 aerators or IP66 pressure compensators. • IP20 protective polycarbonate for preventing direct contact between active parts.
Power source / Different power source options are available: • DC-DC self-generating power source: 1000V DC to 24V DC and 1,500V DC to 24V DC. Power source with independent 230V AC or 127V AC line.	

OTHER SOLUTIONS

Discover our complementary solutions designed to enhance the performance, safety, and efficiency of your electrical systems.

Tailored to current market needs, we offer reliable technology compatible with leading manufacturers.

1 STRING INVERTER GROUPING AC CABINET

The AC combiner box for inverters collects the AC output from fase of the string inverters.

At Mtech we have solutions for 800V string inverters. This technology has been consolidated as a genuine alternative in the sector as it acquires an increasing market share. Our solutions are compatible with the main inverter manufacturers (Huawei, Sungrow, SMA, among others).

Protections (Fuse holders/ fuse bases):

Bases:

10x38 NHX

Nominal voltage:

Up to 800V AC

Breaking capacity:

Up to 80 kA

Fuses:

Up to 630A

Arrester (up to 400V AC):

Type: 1+2+3

Optional: Auxiliary contact

Nominal discharge current: 40kA

Maximum discharge current: 100kA

Others:

Inputs: Cable glands, Fittings

Connections: Wire with insulation voltage of 1000V or copper flat wire

Grounding: Screw, flat wire, terminal, etc.

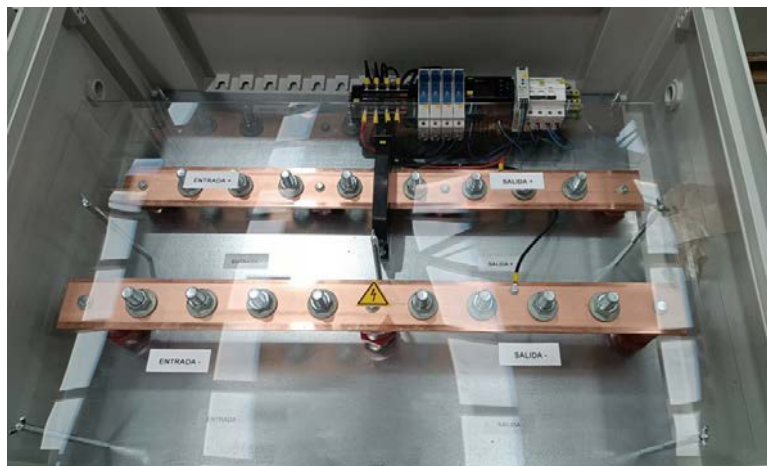
Passive protection systems:

- IP55 aerators or IP66 pressure compensators.
- IP20 protective polycarbonate for preventing direct contact between active parts.



2 BESS MONITORING BOX

The BESS Monitoring Box integrates a SATEC PRO Series analyzer that monitors the real current flow during battery charging and discharging. This enables you to validate the measurements reported by the battery OEM and to identify any discrepancies between actual and expected performance across charging cycles.



3

Battery Energy Storage System (BESS)

Is a technology developed to store electrical charge through the use of specially developed batteries. The underlying idea is that such stored energy can be used at a later time.

An enormous amount of research has led to advances in batteries that have shaped the concept of the Battery Energy Storage System into a commercial reality.

The different cabinets used to carry out this system have been the following:



Cabinet type



Control cabinet



Battery Connection Panel

4

Auxiliary Services Cabinets (substations)

These panels are used to supply the equipment installed in the substation, both non-essential supplies and essential supplies.



5

Protection cabinets (substations)

These cabinets are used to protect substation equipment on High Voltage (HV) lines.

Within the electrical cabinets and panels manufactured by MTECH, Protection and Control (P&C) cabinets are in great demand, whose leading customers are Iberdrola, Red Eléctrica de España (REE), Hitachi - ABB, Siemens, Ingteam, etc.



6

Communication Box (Combox)

Mtech Group's Comboxes are the ultimate solution to centralize and simplify the control and monitoring of key devices in any environment.

These smart boxes are designed to efficiently group the communications equipment needed to manage trackers and weather stations, among other essential devices.

Our Combox offers a comprehensive solution that ensures smooth operation of your tracking and weather systems. With a robust and highly functional design, it provides a stable and reliable platform to coordinate all communication operations.





AUXILIARY SERVICES SKIDS (SSAA)

At Mtech Group, we design, engineer and manufacture fully customized Auxiliary Services SKIDs (SSAA) for renewable energy, substation and industrial projects.

Our SSAA SKIDs are prefabricated steel platforms integrating the auxiliary transformer, LV switch-board, structure, earthing system and all associated mechanical and electrical interfaces required to supply low-voltage auxiliary services.

Each unit is delivered pre-wired, factory-tested (FAT) and ready for on-site installation.

We manage the complete design, engineering, structural development and in-house manufacturing process, delivering compact, reliable solutions tailored to each customer's technical and operational requirements.



WHAT PROBLEM DOES IT SOLVE?

SSAA SKIDs simplify project execution by reducing civil and electrical site works (lift, bolt & connect), minimizing supplier interfaces and shortening installation, commissioning and overall project timelines.

The integrated design — including transformer, LV board, structure and earthing — ensures a standardized, repeatable solution with improved quality control and easier compliance with IEC, AS/NZS and client specifications.

By concentrating all auxiliary equipment in a single accessible location, SSAA SKIDs also simplify operation, maintenance and troubleshooting.



OTHER SKID AND CONTAINER INTEGRATIONS



UTILITY - SACLE SOLAR PV PLANTS



- Inverters
- Trackers
- HVAC
- Lighting
- Security
- Communications



BATTERY ENERGY STORAGE SYSTEMS (BESS)



- Container HVAC
- Control and protection systems
- Fire detection
- UPS
- Lighting



HV/ MV SUBSTATIONS AND SWITCHING STATIONS



- Protection relays
- Control panels
- Motorized switchgear
- Telecoms
- Building services



WIND FARMS AND HYBRID PLANTS



- Monitoring systems
- Switchgear
- Local LV auxiliary loads



INDUSTRIAL AND INFRASTRUCTURE PROJECTS



- Compact prefabricated solutions for: MV transformation and LV auxiliary distribution



MANUFACTURING AND QUALITY



IN-HOUSE DESIGN & ENGINEERING



ELECTRICAL PANEL BUILDING & WIRING



QUALITY CONTROL & INSPECTIONS



STEEL FABRICATION & MACHINING



FACTORY ACCEPTANCE TEST (FAT)

OUR GLOBAL FOOTPRINT

+800 projects powering performance worldwide





WHERE SOME OF OUR SOLUTIONS MAKE AN IMPACT

Explore how our solutions are driving real, measurable results across global markets, enhancing the efficiency, safety, and reliability of electrical systems while adapting to the evolving needs of each region.

AMERICA

BRASIL

Belmonte 455 MW
Boa Sorte 438 MW
Victor Jara 220 MW/1,1GWh *
Gabriela 220 MW/1,1GWh *
Lar Do Sol 360 MW
Rio Do Peixe 70 MW

CHILE

La Coya 200 MW
Gran Teno 241 MW
Gabriela 220 MW
Quillagua II 103 MW
Victor Jara 200 MW
Monteaguila 340 MW
Gabriela Bess 200 MW
Elena Bess 200 MW
Algarrobal 242 MW

GUATEMALA

Hours 35 MW

MEXICO

Terranova 100 MW
Perote 100 MW
Potrero 300 MW
La Pimienta 300 MW

DOMINICAN REPUBLIC

Esperanza 90 MW

PERU

Intipampa 40 MW

COLOMBIA

Cerritos 9,9 MW
Medina 9,9 MW
Caballeros 9,9 MW
Montelíbano 9,9 MW
Sándalo II 9,9 MW
Pétalo de Madgalena 9,9 MW
Portón del Sol 9,9 MW
Centro Solar 9,9 MW
Sol del Mar 9,9 MW
Buenavista 9,9 MW



EUROPE

SPAIN

Arnedo 30 MW
Belinchon 150 MW
Bonete 150 MW
Chiprana 350 MW
Escatrón 150 MW
Escudero 240 MW
Núñez de Balboa 500 MW
Sigma 203 MW
Trillo 188 MW
Valdesolar 250 MW
Renopool I+II 330 MW
Villarino 225 MW

FRANCE

Mezos 25 MW

UNITED KINGDOM

Arbofield 14 MW
Uk Solarlight 10 MW
Burgate 14 MW
Dunmow 20 MW
Gander Down 10 MW
Markham Brook 10 MW
Living 10 MW

ITALY

Róvigo 72MW
Bolotana B 9,25 MW
Banditella 45 MW

ASIA

OMAN

Amin 130 MW

JAPAN

Oita 25 MW
S13 35 MW
Sodegaura 20 MW
Sano 32 MW
Maibara 20 MW

AFRICA

SOUTH AFRICA

Zeerust 75 MW
De Wildt 50 MW

OCEANIA

AUSTRALIA

Bluegrass 200 MW
Columboola 162 MW
Edenvale 204 MW
Walla Walla 300 MW
Wellington 425 MW
Wunghnu 90 MW
Aldoga 380 MW
Carwarp 171 MW
Culcairn 457 MW
Hay & Hillston 10 MW
Kootingal & Gunnedah 10 MW
Mount Magnet 10
Wandoan 2 320 MW
Fulham 80 MW
Blind Creek 300 MW
Wellington 425 MW
Bess Winton North 100 MW
Bess Mokoan 100 MW
Fulham 100 MW
Blind Creek 300 MW

ADVANCED MONITORING SOLUTIONS ACROSS SPAIN

At Mtech Group, we have extensive experience in the design and manufacturing of monitored electrical panels, featured in some of the most prominent projects across the country.

Our commitment to quality, efficiency and innovation has positioned us as a key player in the development of energy infrastructure at a national level.

2019

PRADO DE LUNA - 20 MW
144 combiner boxes

VALDESOLAR - 264 MW
1196 combiner boxes

2020

AÑOVER I - 50 MW
182 combiner boxes

CAPRI - 20 MW
97 combiner boxes

CASTOR SOLAR I - 50 MW
203 combiner boxes

PUERTO REAL - 133 MW
509 combiner boxes

SIGMA - 20 MW
113 combiner boxes

2021

ALARILLA I - 5 MW
22 combiner boxes

ALCALÁ NORTE/SUR - 10 MW
10 combiner boxes

ALCANTARILLA DESIERTO - 5 MW
21 combiner boxes

DELPHINUS - 50 MW
210 combiner boxes

GAMONAL - 5 MW
20 combiner boxes

LOS ARCOS - 50 MW
242 combiner boxes

MANZANARES - 37 MW
240 combiner boxes

PORTACHUELO - 42 MW
42 combiner boxes

TARACENA NORTE - 10 MW
28 combiner boxes

TORRALBA - 5 MW
20 combiner boxes

URSA MAIOR - 50 MW
216 combiner boxes

2022

ALIAGAR FASE I - 18 MW
73 combiner boxes

ALIAGAR FASE II - 22 MW
84 combiner boxes

HERCULES - 93,61 MW
134 combiner boxes
Owner: Solaria | Customer: Imasa

LA CUESTA 1 - 10 MW
45 combiner boxes
Customer: Levitec

MANZANARES - 34,4 MW
180 combiner boxes

PICON - 36,5 MW
124 combiner boxes

SIGMA - 204 MW
962 combiner boxes

STONEWOOD - 67 MW
250 combiner boxes



2023

ACAMPO ESTREN - 25 MW

182 combiner boxes

AIRPORT- 50 MW

182 combiner boxes

BELINCHON I, II & III - 166 MW

600 combiner boxes

COLON - 20 MW

91 combiner boxes

LA LITERA - 10 MW

40 combiner boxes

SAN FERNANDO - 50 MW

160 combiner boxes

2024

BENACAZÓN - 25 MW

102 combiner boxes

ESCATRON - 100 MW

428 combiner boxes

LA SERRATA - 10 MW

32 combiner boxes

PISORACA - 85 MW

310 combiner boxes

RENOPOOL - 260 MW

1510 combiner boxes

TREVAGO - 60 MW

262 combiner boxes

TRILLO 1&3 - 100 MW

438 combiner boxes

VELILLA - 30 MW

143 combiner boxes

VILLARINO - 220MW

970 combiner boxes

2025

CALENDULA - 18 MW

73 combiner boxes

CLAVE & IRON - 100 MW

416 combiner boxes

SILVERIO - 25,4MW

116 combiner boxes



mtech
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