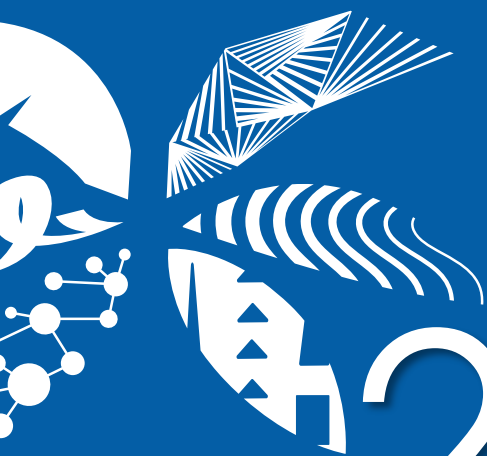




عناصر الطاقة
ENERGY ELEMENTS



2026

Energy Elements (2E)

INNOVATIVE CLEAN ENERGY SOLUTIONS



www.2e-ksa.com





عناصر الطاقة
ENERGY ELEMENTS

WHO ARE WE?

Green Energy visionaries who are embracing new business ideas to real corporate success by delivering unique and intelligent technologies & green energy solutions in:

1

Solar Building
Skin

5

LED Screens

2

Energy Storage
Batteries

6

Smart Glass

3

Charging Station

7

Pod Home

4

Smart Home – Building
Automation

8

Hotels & Resorts

رؤية
VISION
2030
المملكة العربية السعودية
KINGDOM OF SAUDI ARABIA





Our Vision

Saudi Arabia powered by
clean & sustainable energy
sources



2E is providing customized solutions as
per customer's needs and
requirements.



Our Mission

To accelerate &
Providing the transition to
a sustainable and clean
energy future by
developing, deploying,
and manufacturing
innovative, cost-
effective, and reliable
renewable energy
solutions



PRODUCTS OVERVIEW



MADE IN ITALY



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1- Solar Building Skin

BIPV as a construction material

- Perfectly Integrated Without Compromising beauty
- Customizable Colors and Patterns to Your Needs
- Conforms to Building System Standards, Fast-to-Install

00

COST-CUTTING

We are introducing cost-cutting measures

01

SUSTAINABILITY

A revolution in green architectural sustainability

02

Beauty

Freedom over beauty and design customization

03

CUSTOMIZATION

The widest choice of sizes, collections and finishing

04

COMMUNITY

Promote self-sufficient green energy communities

05

GREEN LIFE

Promoting a healthier planet and lifestyle

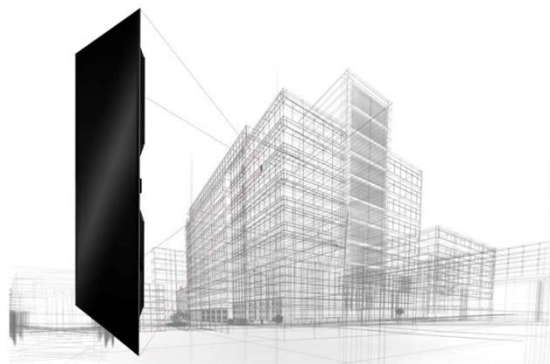
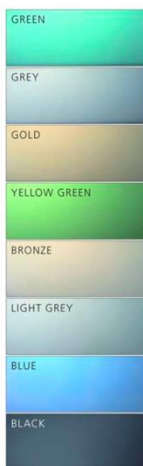




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Suncol disappears into the urban context

- Suncol overcomes the traditional PV landscape constraints.
- Suncol surface turns into the ideal solution not only for new buildings but also for **renovation projects**.





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Production Efficiency of Vertical Photovoltaic Facades with the application of different technologies

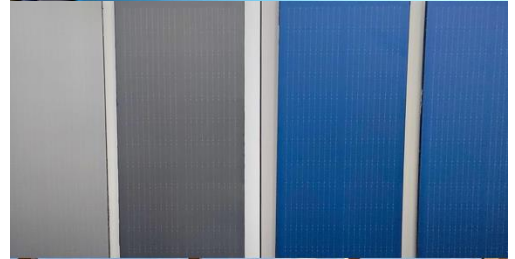
THIN FILM CIGS

- 11 colorations available
- Satinated anti-reflex aesthetics
- Efficiency ~15%
- **Production Capacity – 130 W/sqm**



MONOCRYSTALLINE SILICON

- Many colorations available
- Kromatix Technology
- Efficiency ~18%
- **Production Capacity – 150 W/sqm**



AMORPHOUS SILICON

- Many colorations available
- With Variable Transparency / Semi-Transparent
- Efficiency ~8%
- **Production Capacity – 40 W/sqm**





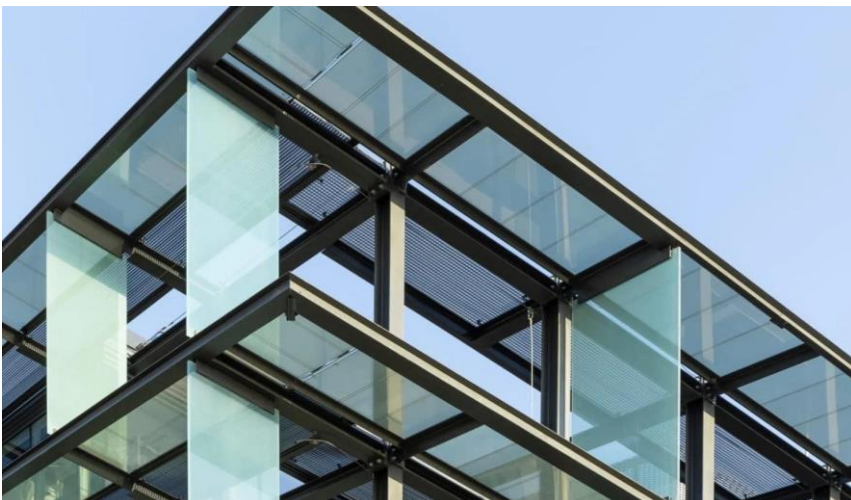
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Solar Glass

We are pioneers in Italy in the integration of photovoltaic glass, bringing advanced solar technology into architecture with precision and versatility.

Our experience spans vertical façades, in-frame photovoltaic assemblies, and high-performance skylight systems, allowing us to transform building surfaces into efficient energy-generating elements.

Through constant innovation and tailor-made engineering, we deliver solutions that combine aesthetic value, structural reliability, and long-term energy performance.



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SAMPLE PROJECTS



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ENERGY ELEMENTS

1



2





عنصر الطاقة
ENERGY ELEMENTS



3



4

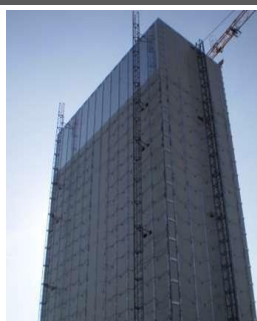


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ENERGY ELEMENTS

CASE
STUDY
CAFFÈ
VERO
VICENZA



The members of Technical Department developed what is still the largest Amorphous Silicon installation in Italy: the Caffè Vero Silos Tower in Vicenza, boasting a peak capacity of 95 kW.



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6 kWp – Roma

Solar Monolith



Photovoltaic Cube



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Monolite FV Led



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**COMING
2026**

Stone cladding
(ventilated façade) with
the integration of 140
kWp of architectural
panels – Corten Effect



Architectonic Rendering realized by our Technical Studio

Architectural cladding made with
aesthetic full-black panels and
the integration of a self- powered
PV monitor – 70 kWp wall-
mounted system



Architectonic Rendering realized by our Technical Studio

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SAUDI ARABIA BUSINESS CASES



عناصر الطاقة

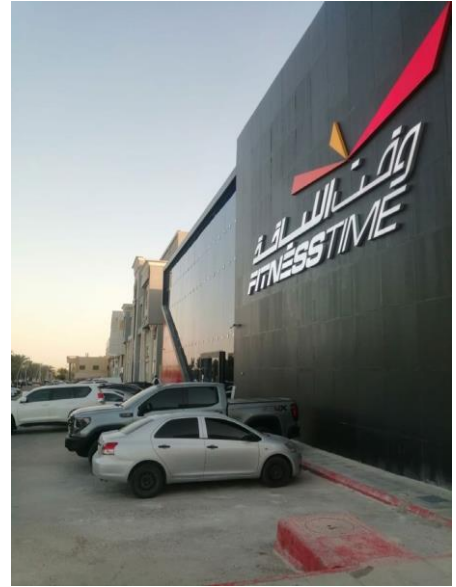
ENERGY ELEMENTS

FITNESSTIME



The photovoltaic elements of the building analyzed were integrated as glazed components within the ventilated facades. The modules were offered in two color variants—black and red—and feature completely hidden cells to preserve the building's beauty. The integration model and the use of these modules in the facade can also be replicated in other buildings. However, to estimate each building's potential, it is necessary to evaluate its specific context.

Main entrance façade render. The black modules, like the red modules, are photovoltaic.



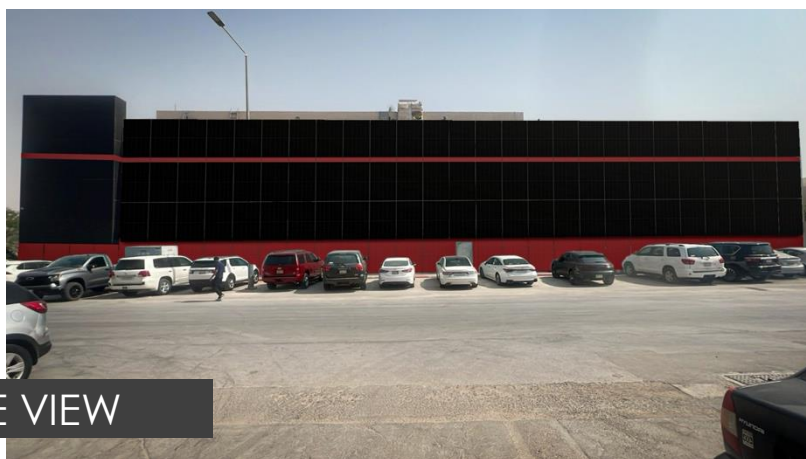


عناصر الطاقة
ENERGY ELEMENTS

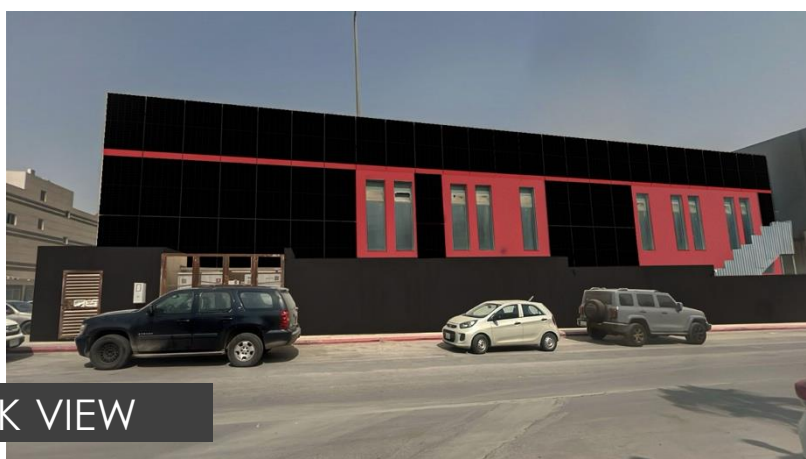
BUILDING 3D RENDERING AFTER FIXING THE SOLAR PANELS



FRONT VIEW



SIDE VIEW



BACK VIEW

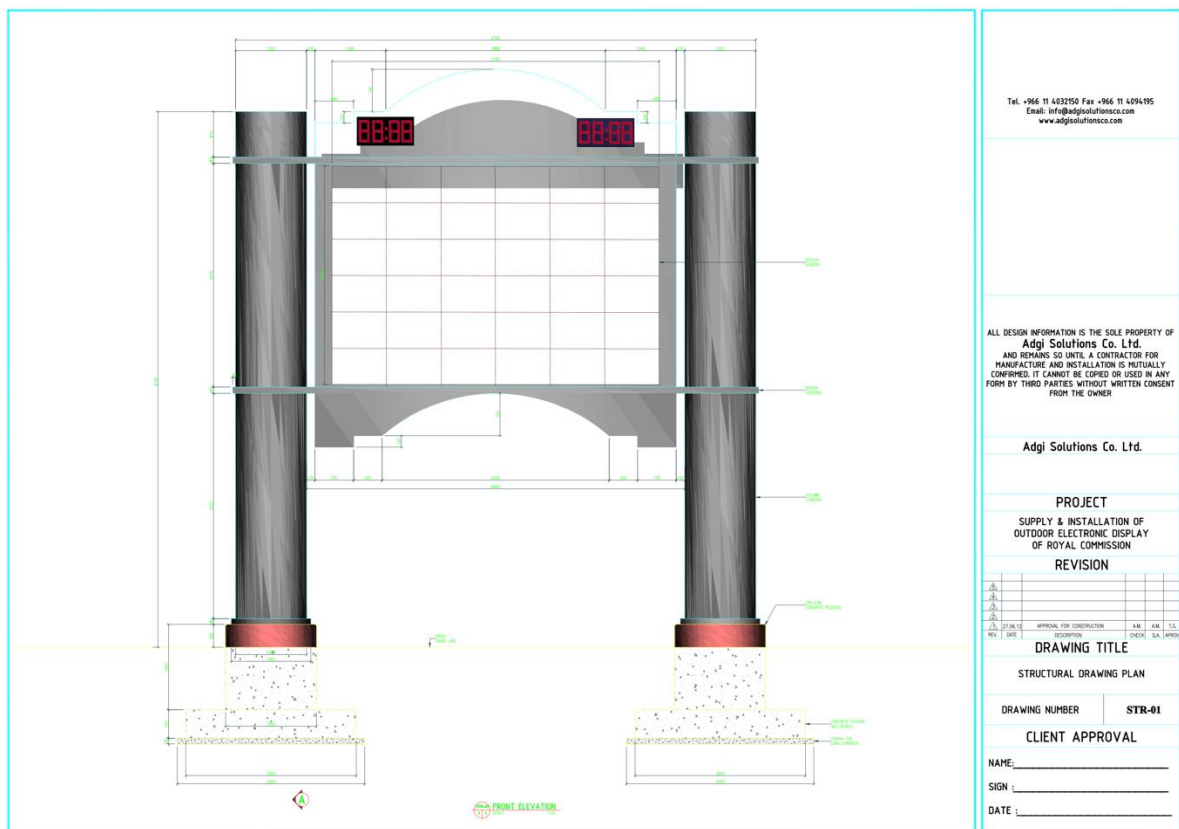


ROYAL COMMISSION FOR JUBAIL & YANBU

Solar Panels Skin for LED wall screen.

الهيئة الملكية
للجبل و ينبع
Royal Commission for Jubail & Yanbu

STR-01





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ENERGY ELEMENTS

LED wall screen Current Front View



LED wall screen Current Back View

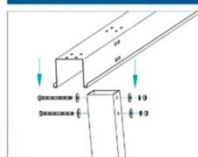


Supply and installation of architectural photovoltaic cladding with batteries storage and wind turbine

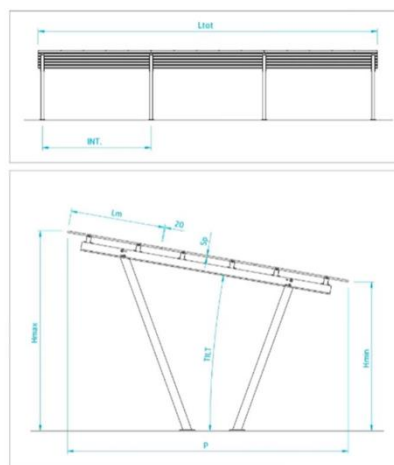
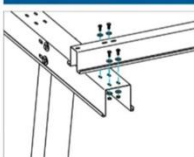
Carport a DOPPIA COLONNA



FISSAGGIO TRAVERSO ALLA COLONNA

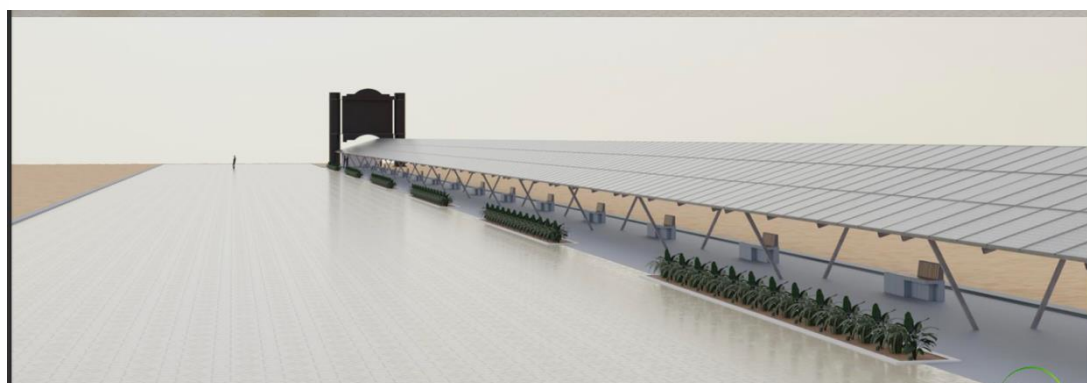
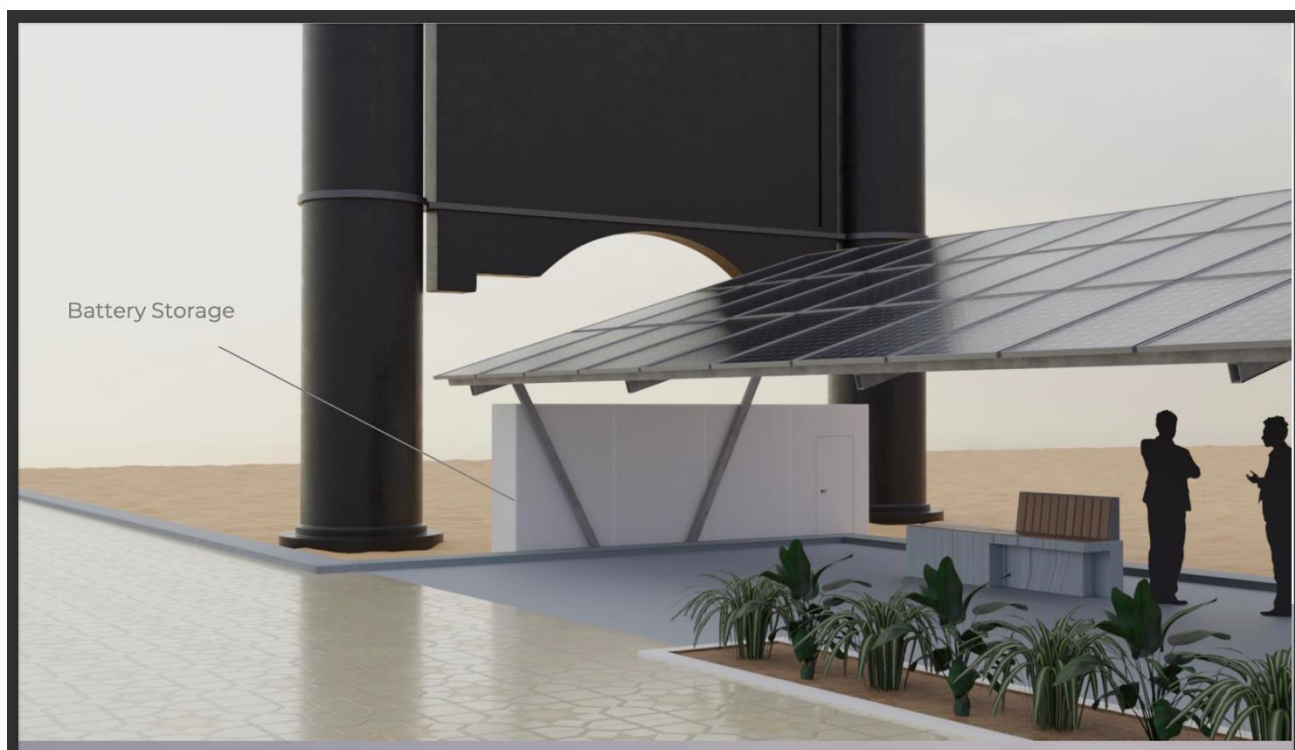


FISSAGGIO ARCADECCIO AL TRAVERSO





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VIDEOS



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ENERGY ELEMENTS

Introduction

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Sample Project

[Click Here](#)

Sample Project

[Click Here](#)



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2- Energy Storage Batteries

Salt batteries (sodium/nickel)

- No fire propagation (installation in any location does not fall under SEVESO regulations)
- Fully recyclable
- In case of failure, the battery is repairable, both electronically and for the sodium cells (10-year warranty with a very low failure rate)
- Can be installed in environments with temperatures ranging from -20°C to 60°C



Upon first activation, the salt is heated to its liquid state up to 265°C with a duration of 8 hours plus recharging Weight/KWh slightly higher than lithium batteries but more voluminous.



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ENERGY ELEMENTS



UNO ALL IN ONE SYSTEM

Storage of 7.7/19.6 kWh and with an inverter from 3 to 6 kW

Robust aluminum structure with metal panels.

All-in-One residential system, single-phase, with hybrid inverter from 3 kW to 6 kW and storage from 7.7 kWh to 19.6 kWh.

The UNO system has been designed for easy installation, concentrating everything in a SINGLE pre-wired cabinet, so the installer, even with limited skills, will be able to perform the installation.

The steps to follow during installation are positioning the cabinet in the most suitable area for the customer; this can be anywhere in the house/other location, as long as it is protected from weather agents. Then, connect only the cables coming from the PV system, the electrical line from the meter, the electrical line for the utilities, and the ground wire – a total of 7/9 cables – which should be attached to an appropriate terminal block that is easily accessible inside the cabinet. The system also includes an EPS output and the corresponding protection switch.





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ENERGY ELEMENTS

WRO



Features:

Nominal voltage	48 Vdc
Operating voltage range	From 54 to 59 Vdc
Nominal capacity (Ah)	160-200 Ah (100% depth of discharge)
Nominal energy capacity	7.7 to 9.6 Wh (100% depth of discharge at C/4)
Maximum DC connection voltage during controlled charging	53 – 59 Vdc (DC Bus)
Maximum charging current	32 to 40 A (direct charging)
Minimum discharge voltage	40 Vdc (DC Bus)
Maximum operating charging voltage	59 V
Cooling	Not required
Heating time from cold state to operational state	Max 12 hours
Controlled charging operation	Current control via internal DC/DC converter
Communications	Single battery: CAN-BUS / MODBUS
Efficiency for a complete cycle	Full cycle efficiency: 90% (at a constant power of 6.25 kW, 80% discharge depth, and charge at maximum power of 6.25 kW)
Length	498 mm
Width	558 mm
Height	320 mm
Weight	91 / 104 kg
Ambient operating temperature (continuous)	-20 to +60°C (-4 to 140°F)



عناصر الطاقة
ENERGY ELEMENTS

DUO system with cabinet storage

From 90 kWh to 1.4 MWh

Inverter sizes: Three-phase hybrid inverters from 8 kW to 50 kW



DUO System: Two Tailored Energy Solutions

DUO is a versatile and easy-to-install energy storage system, perfect for any need.

Option 1: Free and Modular Installation

Wall-mounted inverter (3-30 kW) and UP250 battery of 9.6 kWh, expandable up to 90 kWh. Ideal for those seeking flexibility and scalability.

Option 2: High Power and Capacity

Prefabricated cabinets with 1-24 ST523 batteries of 22.5 kWh each, for a total of up to 540 kWh (expandable to 1.2 MWh). Inverter (36/50 kW) integrated into the technical compartment with electrical panels.

DUO: Reliable and Scalable Energy

Choose the DUO solution that suits you and discover a new way to manage energy.





عنصر الطاقة
ENERGY ELEMENTS

CHARACTERISTICS & VALUES:



Characteristics

Values

Nominal Voltage	250 V
Operating Voltage Range	from 270 to 300
Nominal Capacity (Ah)	40 Ah (100% depth of discharge)
Nominal Energy Capacity	9600 Wh (100% depth of discharge at C/10)
Max DC Connection Voltage During Controlled Charging	700 VDC (DC Bus)
Max Charging Current	15 A (direct charging)
Min Discharge Voltage	180 V
Max Operating Charging Voltage	8 A
Max Discharge Current (non-continuous)	60 A
Cooling	Not required
Heating Time from Cold State to Operational State	Max. 15 hours
Controlled Charging Operation	Current control via internal DC/DC converter
Communications	RS485/ CANBUS / USB
Full Cycle Efficiency	90% (at a constant power of 6.25 kW, 80% discharge depth, and charge at maximum power of 6.25 kW)
Length	495 mm
Depth	557 mm
Height	322 mm
Weight	103 kg
Ambient Operating Temperature (Continuous)	-20°C to +60°C (-4°F to +140°F)



عناصر الطاقة
ENERGY ELEMENTS

CHARACTERISTICS & VALUES:



Characteristics

Values

Nominal Voltage	620 Vdc
Operating Voltage Range	from 450 to 670 Vdc
Nominal Capacity (Ah)	38 Ah (100% depth of discharge)
Nominal Energy Capacity	22,5 kWh (profondità di scarica 100% a C/10)
Max DC Connection Voltage during Controlled Charging	24 VAC e 600 Vdc (Bus DC)
Cooling	Non necessario
Round trip Efficiency	90% (con potenza di scarica/carica a 6,25 kW e 89% DOD)
Controlled charge operation	Controllo della corrente mediante convertitore DC/DC interno
Communications	Singola batteria: CAN-BUS, Sistemi multibatteria: Modbus TCP/IP tramite Ethernet (gestito da un Gateway per il controllo del sistema batteria che consente di gestire una o più batterie ST523 collegate in parallelo)
Length	624 mm
Depth	1023 mm
Height	406 mm
Weight	256 kg
Continuous Operating Ambient Temperature	-20°C a +60°C (-4°F a +140°F)



عناصر الطاقة
ENERGY ELEMENTS



Inverters

from 3kW to 30kW hybrid



The three-phase storage inverters of the DUO series are designed to increase energy independence for both residential and commercial users. The power range varies from 3.0 kW to 30 kW and is compatible with high-voltage batteries (150-800V). Energy management is based on time-of-use pricing structures and demand charges, significantly reducing the amount of energy purchased from the public grid. Thanks to the UPS function (switching time <10 ms), critical loads remain powered during outages. Additionally, in backup operation mode, the inverter provides up to 150% peak power overload.

Inverters

from 36Kw to 50 Kw hybrid



The three-phase storage inverters of the DUO series are designed to increase energy independence for both residential and commercial users. The power range varies from 36 kW to 50 kW, and they are compatible with high-voltage batteries (150-800V).

Energy management is based on time-of-use tariffs and peak rate structures, significantly reducing the amount of energy purchased from the public grid.

Thanks to the UPS function (switching time <10 ms), critical loads can remain powered during power outages. Additionally, in backup operation mode, the inverter provides up to 150% peak power overload.





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Cabinet - maximum 540 kWh





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Charging Station

CARICAR

More power and more value



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ENERGY ELEMENTS

3 - Charging Station

More power and more value

From 7.4 kW/h Single-phase, 22 kW/h Three-phase

The charging station is self-configuring and can manage up to 29 stations in parallel with energy balancing, including one master and one slave. This enables intelligent charging, ensuring there are never issues with sudden disconnection of protections (magnetothermal) at the meter, and allows for maximum utilization of the available energy from the meter and renewable sources. The system has the capability to communicate with our EMC system, which will further manage the control, including the electrical load priorities of the building/house.

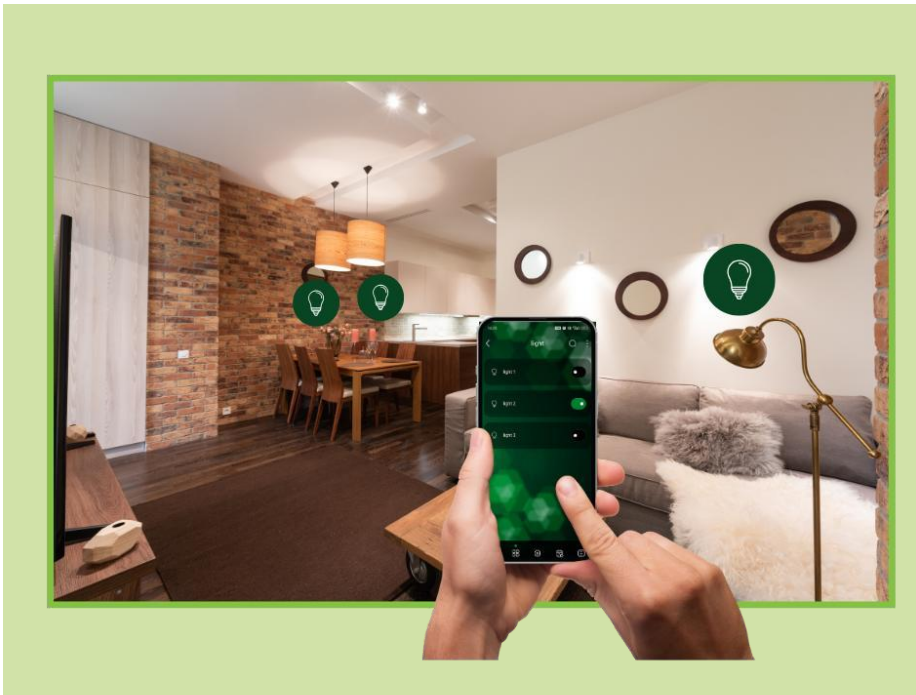




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EN1C

Building Automation



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4- Smart Home – Building Automation

Multiprotocol Central Unit Edge Computer – indoor

Multiprotocol Smart Gateway with Backup Battery

The EMC Box smart gateway is one of the products used to connect various devices with multiple communication protocols, such as: BACnet, Modbus, KNX, Z-Wave, MQTT, OPC UA, LoRaWAN, Thread, Matter, Zigbee, DALI, EnOcean, Profibus, and Profinet. This intelligent IoT gateway can function as the central brain of smart residential and commercial scenarios, managing and controlling all your IoT devices. It can be used to efficiently collect data for informed decision-making and utilize remote monitoring features to quickly identify and resolve issues.





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COMMUNICATION PROTOCOLS:

 Worldwide Standard for the automation	 Worldwide Standard for the automation	 Worldwide Standard for the automation	 Proprietary System of Vimar S.p.A.	 Proprietary System of BTicino/Legrand
 Worldwide Standard for the automation	 Worldwide Standard for the automation	 Worldwide Standard for Internet of Things (IoT)	 Proprietary System of Alliergo Robotics	 Proprietary System of Philips (lighting)
 Network Cameras, NVR/XVR, HDCVI	 Network Cameras, NVR/XVR, HDCVI	 Network Cameras, NVR/XVR, AI-BOX	 Network Cameras	 Universal Support
 CA20/21, FREENET, MQ2/3 multi-room system series	 WIFI based multiroom system	 HIFI system based on proprietary protocol	 HIFI system based on proprietary protocol	 HIFI system based on proprietary protocol
 Interfacce INTESIS WIFI per integrazione HVAC	 Interfaccia COOLMASTERNET per integrazione HVAC	 Interfacce AIRZONE AIDOO per integrazione HVAC	 Centrali antintrusione serie GENIO con comunicazione LAN	
 Sistema proprietario ELFOCONTROL 2	 Sistema proprietario SMARTCOMFORT 365	 Termostati ambiente serie TU01 e TU02	 Centrali antintrusione serie BY-ALARM (preservimento allarme)	
 Video Stream and HTTP requests	 Centrali di antintrusione serie INTEGRA con comunicazione LAN	 Centrali di antintrusione serie PRIME con comunicazione LAN	 Centrali di antintrusione TECNOCALARM compatibili con protocollo TECHNO- OUT	 Centrali di antintrusione serie VILLEGGIO, ETR, FREGIO e PROXIMA
 Samsung SYNCMASTER Professional TV Monitors	 LG SMART TV with LAN communication	 BLUSTREAM Audio/Video matrices	 IRTRANS interfaces for IR integration	 ARTNET converters for DMX integration



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ENERGY ELEMENTS

WIND ENERGY

How it works

- is the first vertical-axis micro wind turbine that continuously learns from the wind.
- Proprietary AI adjusts the blades angle in real time, every few milliseconds.
- The system analyzes wind speed, direction, turbulence, and the interaction between blades.
- This dynamic control maximizes energy production while protecting the turbine in extreme wind conditions.



[Click Here](#)

Performance at a glance

- +60% annual energy yield compared to the best vertical turbines on the market
- -80% wind loads during storms, for higher reliability
- 3–5 kW power range, suitable for rooftops and industrial sites
- Ultra-quiet operation (<38 dB at 10m)
- Easy installation – no cranes required
- Built to last, with low maintenance requirements

Power output
Rotor diameter
Rotor height
Total rotor mass
Nominal rotational speed
Mean Time To Repair

3-5 kW
5,4m
3,0m
90 kg
70 rpm
5 years



TERMINALS BLOCKS

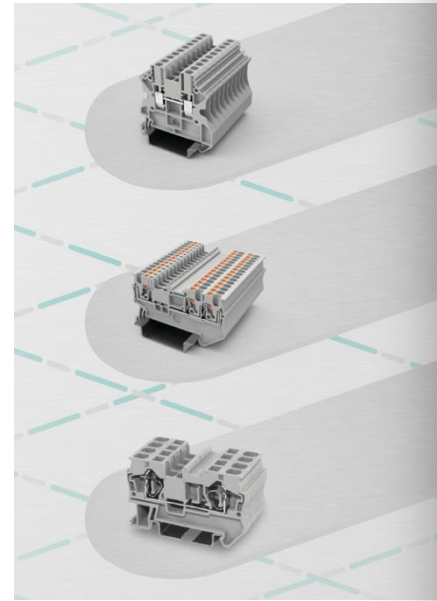


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RAIL MOUNTING TERMINAL BLOCK

Terminal block is an electrical connector device used to safely connect, organize, and distribute electrical wires inside electrical systems and control panels. It provides a secure junction point where multiple wires can be connected without soldering or twisting wires together.

- Screw terminal block
- Push-in terminal block
- Spring-cage terminal block

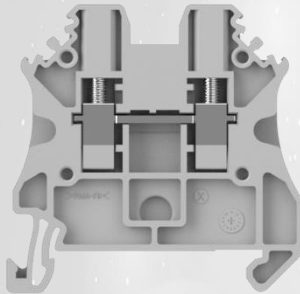




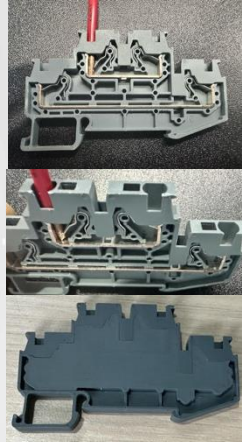
عنصر الطاقة

ENERGY ELEMENTS

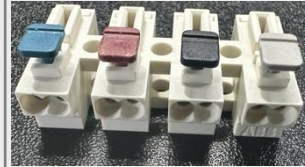
Our Innovation



- Real 1000V design
- Groove design
- Double mark design
- Push-in bridge



- Full new design to satisfy push in and cable release
- New 吧 design with end cover



- Release cable without tool



- release cable with horizontal pull out



- release cable with new open structure



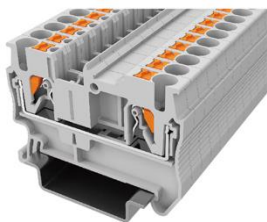
- creative double ribber band and zigzac design to satisfy IP lever
- Exterior design make fixing easily for manual and tool



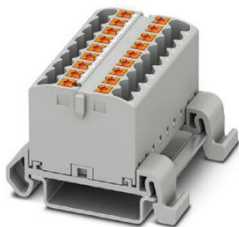
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ENERGY ELEMENTS

Rail Terminal Block

Push-in Terminal block



UPT

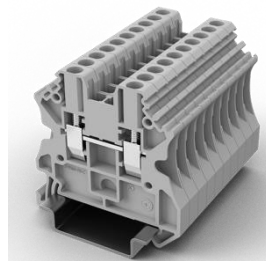


JUT15
Power distribution

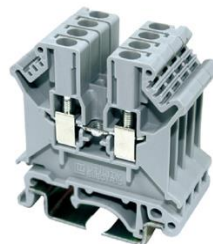


JUT14

Screw Terminal block



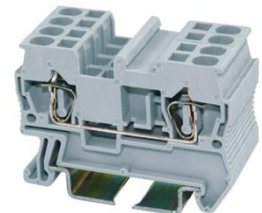
UUT



JUT1

Full Copper Structure

Spring-cage Terminal block



JUT3



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ENERGY ELEMENTS

Screw Terminal block for high ampere rating



JUT11
Power distribution
terminal block



JUT10
Thread type
terminal



JUT5
Industry distribution
terminal



JUT13
Power distribution
terminal block



JUT6
Base type terminal for
industry



JUT17
Power distribution
terminal block



JUT7
Screw combination-type
wiring terminal row series



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Lighting Terminal



SMT



UBC-56X



UC41



UBC-59X



UC42

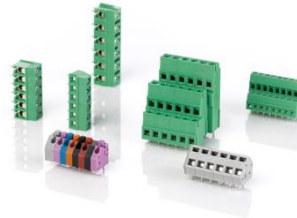


UBC52



EU2.5

PCB Terminal



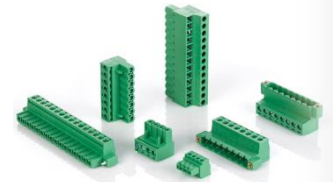
MU range
EU terminal



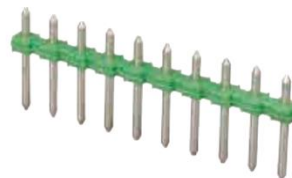
MB range
Plug terminal base



MAP range
Pin plug



MA range
Plug terminal base



MP range
Plug



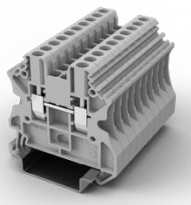
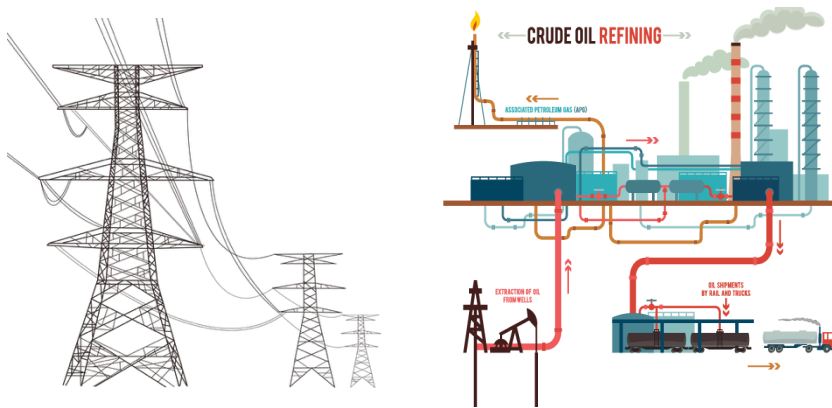
BU range
US type terminal



عناصر الطاقة
ENERGY ELEMENTS

Vertical application

Electricity & Energy



UUT



JUT1



UPT



JUT3



JUT2



JUT17



JUT11



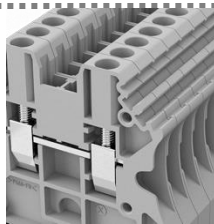
JUT6



عنصر الطاقة
ENERGY ELEMENTS

Vertical application

Automation



UUT



UPT



JUT3



JUT14



UAC



JUT1



JUT15



JUT11



Heavy-duty
connectors



عناصر الطاقة
ENERGY ELEMENTS

Vertical application

Building Lighting



UPT



UBC52



UBC-56X



UBC-59X



JUT14



EU2.5



UC



WPC

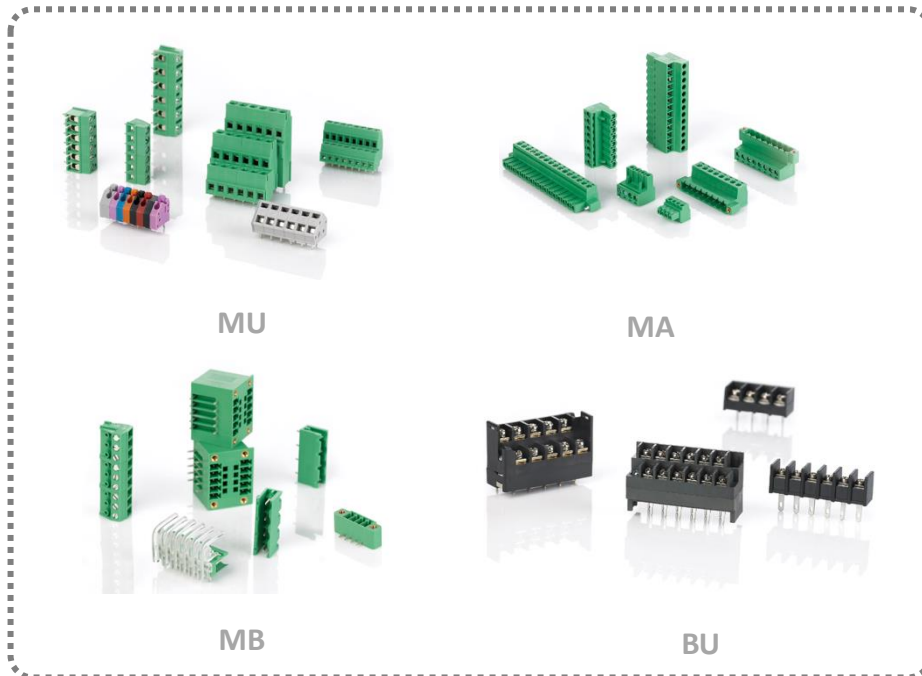
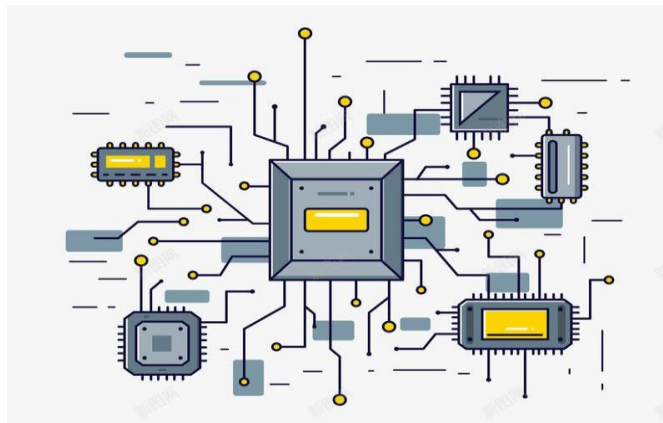




عناصر الطاقة
ENERGY ELEMENTS

Vertical application

Electronic Device



LED SCREENS



عناصر الطاقة
ENERGY ELEMENTS

ARCHITECTURE DIGITAL VIDEO WALL

Material:

- Wooden
- Marble
- Sinter-Free Tile
- Metal Brocade
- Steel
- Concrete



VIDEO

[Click Here](#)

Architecture Digital Video Wall applies building materials, which demonstrates limitless possibilities through their wide range of applications, including building facades, interior decoration, new media landscape installations, cultural and tourism digital scene and furniture, it opens up a vast creative space for designers.

Features:

- Customizable sizes within the maximum dimensions
- Installed with a keel structure.
- Available in Optional Floor Versions, possesses the capabilities of being waterproof, stain- resistant, impact- resistant, and wear-resistant.
- Uses the same assembly specifications as conventional wall panels
- Equipped with a movable skirting structure for easy maintenance
- Ensuring consistency in decorative spaces
- Simplifying the assembly and construction process
- More Cost-Effective compared to traditional types of building materials
- Advantages of Being Lightweight and High Strength

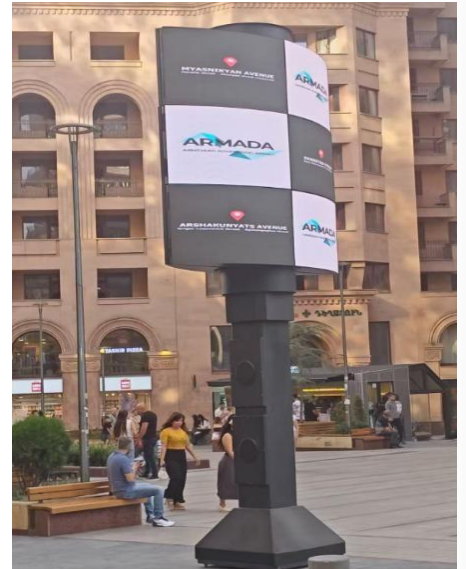
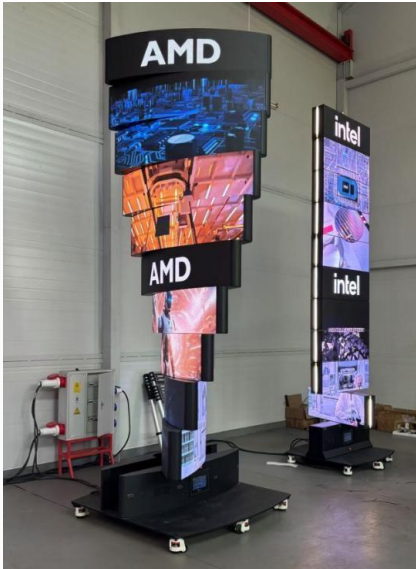




عنصر الطاقة
ENERGY ELEMENTS

MECHANICAL ROTATING LED DISPLAY

Mechanical rotated led screen is an intelligent led visual robot display. With the features of creative mechanical equipment design, cool twist motion, eye-catching deformation media, rotating led display is broadly used in advertising market, such as shopping mall, airport terminal, theatre, grand hotel, exhibition, plaza, museum, event, etc.



INNOVATIVE CLEAN ENERGY SOLUTIONS

VIDEOS



عنصر الطاقة
ENERGY ELEMENTS

Rotate LED Screen - 1

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Rotate LED Screen - 2

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Rotate LED Screen - 3

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Rotate LED Screen - 4

[Click Here](#)

Rotate LED Screen - 5

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ENERGY ELEMENTS

CREATIVE LED SCREEN

Creative LED screens in various designs. Cube led screen, double sided ring led screen, triangle led screen, cuboid led screen, circle led screen, led pillar screen, led kiosk screen, immersive room led display, led belt display, led book display, led tree display. With our creative LED screens, you can transform exhibition room, meeting rooms, museum, club and retail shops like never before.



VIDEOS



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Creative LED Screen - 1

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Creative LED Screen - 3

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Creative LED Screen - 4

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Creative LED Screen - 5

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Creative LED Screen - 6

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Creative LED Screen - 7

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Creative LED Screen - 8

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4D LED VIDEO WALL

A 4D LED video wall is an advanced large-format digital display system that combines a high-resolution LED screen with immersive sensory and spatial effects to create the illusion of depth, motion, and physical interaction beyond a normal flat display.



VIDEOS



عناصر الطاقة

ENERGY ELEMENTS

4D LED VIDEO WALL -1

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4D LED VIDEO WALL -2

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4D LED VIDEO WALL -3

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SMART GLASS



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ENERGY ELEMENTS

SMART GLASS SOLUTIONS

Smart glass products are advanced glass systems that can change their appearance or light transmission properties electronically, automatically, or manually. They are used to control privacy, sunlight, heat, glare, and visual display functions in buildings, vehicles, and electronic devices.

Smart glass can:

- Switch from transparent to opaque
- Tint automatically under sunlight
- Block UV and infrared heat
- Display digital content
- Improve energy efficiency
- Provide instant privacy



VIDEOS



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ENERGY ELEMENTS

Smart Glass - 1

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Smart Glass - 2

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Smart Glass - 3

[Click Here](#)

Smart Glass - 4

[Click Here](#)

HOTELS & RESORTS



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ENERGY ELEMENTS

HOTELS & RESORTS PRODUCTS

- SMART PERGOLA
- SUN LOUNGER



VIDEO - 1

[Click Here](#)

VIDEO - 2

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ENERGY ELEMENTS



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ENERGY ELEMENTS



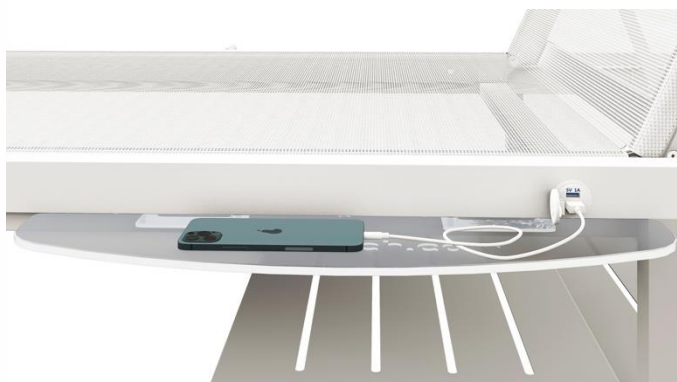
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ENERGY ELEMENTS

SUN LOUNGER



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HOME POD



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ENERGY ELEMENTS

HOME POD

- SPACE CAPSULE
- EXPANDABLE HOUSE
- FOLDING HOUSE
- ASSEMBLY HOUSE
- APPLE HOUSE

VIDEO

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عنصر الطاقة
ENERGY ELEMENTS

SPACE CAPSULE



INNOVATIVE CLEAN ENERGY SOLUTIONS





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ENERGY ELEMENTS

EXPANDABLE HOUSE



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عناصر الطاقة
ENERGY ELEMENTS

FOLDING HOUSE



VIDEO

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ENERGY ELEMENTS

ASSEMBLY HOUSE



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ASSEMBLY HOUSE



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APPLE HOUSE



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