Company Profile

GROUP

A Clean Vision

Our role as an EPC partner is to ensure that every project we deliver not only meets technical standards but reflects our belief in responsible development, engineering integrity, and long-term value creation.

India’s solar potential is vast, and our nation stands at a critical juncture in its clean energy journey. MIR is proud to be part of this transition. Our team brings together seasoned professionals, global best practices, and localized project knowledge to support clients across India with dependable solar EPC delivery.

Whether building a 5 MW plant or a 100 MW solar park, our promise remains the same.

A New Era of Solar Solutions

The global shift toward renewable energy is a dynamic and accelerating trend, with solar photovoltaic (PV) capacity leading the way. Over 40 countries already have a cumulative PV capacity of more than one gigawatt, and the worldwide capacity has recently exceeded 2 terawatts (TW). Many nations and corporations have set ambitious targets to install new renewable energy capacity and achieve net-zero emissions in the coming decades. MIR is proud to be part of this transition.

Our role as a solar EPC partner is to ensure that every project we deliver not only meets technical standards but reflects our belief in responsible development, engineering integrity, and long-term value creation. Our team brings together seasoned professionals, global best practices, and localized project knowledge to support clients with dependable solar EPC delivery. We aim to create healthier and more environmentally friendly urban environments, adopting an integrated approach to sustainable regeneration.

Ground Mount

Wall Mount

Ground Mount Solutions

Geotechnical Surveys

We conduct comprehensive surveys to determine soil properties, acidity, and electrical resistance, which are crucial for designing corrosion-resistant mounting structures and effective earthing systems.

Wind and Seismic Loads

We use advanced studies like Computational Fluid Dynamics (CFD) analysis and wind tunnel tests to design mounting structures that can withstand extreme wind speeds and seismic loads, ensuring the long-term stability of the plant.

Hydrology and Drainage

Our designs incorporate efficient drainage systems to prevent waterlogging and flooding, which are particularly relevant during India's monsoon season.

Roof Mount Solutions

Cost-Effective

We offer cost-effective rooftop solutions using high skill and state-of-the-art technology.

Energy Independence

Generate your own power and reduce reliance on the grid, protecting yourself from rising electricity tariffs.

Commercial & Residential

We provide excellent sources of solar energy for both commercial and residential consumers, allowing them to transform their rooftops into solar power plants.

Space Optimization

Utilize existing, unused rooftop space to generate clean electricity without occupying valuable land.

BIPV.

Architectural Freedom

BIPV solutions come in various colors and designs, allowing architects and designers the freedom to create aesthetically striking and energy-positive buildings.

Sustainability

By generating energy where it is consumed, BIPV significantly reduces a building's carbon footprint and helps achieve Net Zero Energy Building (NZEB) goals.

Mobile Solar Container

Plug and Play

The modules are pre-wired and ready for service, allowing for simple assembly.

Mobile

Produce electricity exactly where it is needed.

Partners for Sustainable Urban Regeneration

MIR Group is a holding company and benefit corporation committed to Sustainable Urban Regeneration, transforming and redeveloping urban areas with a strong focus on environmental responsibility, energy efficiency, and carbon neutrality. Our mission is to create livable, dynamic communities by integrating innovative design, sustainable development, real estate management, and consultancy.

With a holistic approach, we ensure that every project aligns with Net Zero Energy Building (NZEB) goals, utilizing energy-efficient solutions and responsible urban planning to minimize environmental impact. Our highly skilled team manages the entire lifecycle of real estate development, from strategic consultancy and operational design to on-site construction, ongoing testing, and maintenance.

By prioritizing low-carbon solutions, renewable energy integration, and eco-friendly materials, we deliver projects that not only enhance the urban landscape but also contribute to a greener, more sustainable future.

PCC cert ENVIRONMENT ISO 14001:2015

PCC cert HEALTH & SAFETY ISO 45001:2023

PCC cert QUALITY ISO 9001:2015

USGBC MEMBER

CQOP SOA Costruttori Qualificati Opere Pubbliche
SOA OG1 CLASS V

07

Offices Worldwide

70+
Professionals

12
Division

Areas of Expertise

- EPC
- Energy Requalification
- Advanced Design & Construction
- BIM Services
- Project Management
- In-depth Analysis
- Financial, Tax, & Insurance Consulting
- Green Building Certifications
- ESG Certifications
- ISO and SOA Certifications
- Green Building Material Suppy

Timeline

2020

MIR Solution

- Inovative Start Up
- Energy Requalification

2021

MIR Consulting

- Happy Way
- First construction site of MIR Solution

2022

MIR Group
MIR Construction
MIR Real Estate

- ISO 9001:2015
- SOA
- SG BIM(UNI/PdR 74:2019)
- Monoblock and Shutter Box Frame Patent

2023

Office Expansion

- Bergamo IT
- Torino IT
- Roma IT
- Dubai UAE
- Lugano CH

2024

Swiss Office

Via Lucino 286932 Breganzona, Switzerland

Piedmont Office

Corso Enrico Tazzoli, 200 – 10137 Torino TO

Lazio Office

Viale XXI Aprile, 26 - 00161 Roma RM

Emilia Romagna Office

Viale 12 Giugno, 2/2 - 40124 Bologna BO

Dubai Office

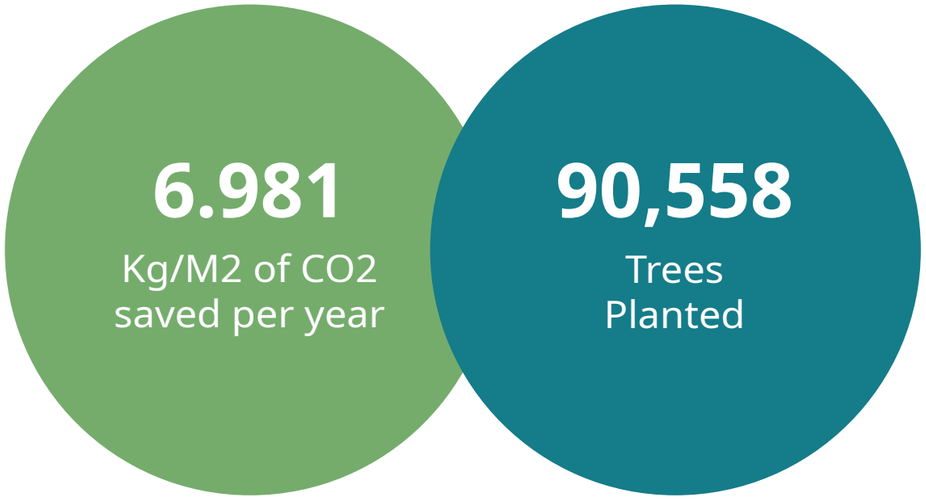
20th Floor, Prime Tower, Business Bay, Dubai, UAE

2025

Kosovo
India

- MIR Green Energy
- MIR India Global Services

One Mission
One Vision
One Purpose



Mission

Our mission is to regenerate cities and buildings through sustainable and innovative solutions, responding to new global climate changes. We design energy-plus, negative emission buildings to improve people's quality of life and promote the sustainable development of communities. We focus on environmental and social well-being and living comfort.

Vision

Our vision is to be a trusted partner in innovation and sustainability, putting our multidisciplinary skills at the service of customers at every stage of projects. We are committed to solving global energy problems byoffering efficient and sustainable solutions, contributing to the creation of a greener future.

Purpose

Our aim is to improve people's lives and the environment in which we live, creating innovative, safe and comfortable spaces. We aim to generate along-term positive impact on communities and theglobal ecosystem, fostering sustainable andresponsible development.

Goal

Our goal is to create healthier and more environmentally friendly urban environments, adopting an integrated approach in sustainable urban regeneration.

Press & Media

EOI EVENT


MEETING WITH FINANCE MINISTER OF INDIA

DH DECCAN HERALD

THE HINDU

Il Sole 24 ORE

CORRIERE DELLA SERA

MACHINEMAKER

EUStartup.news

THE ECONOMIC TIMES

mary's meals

a simple solution to world hunger

Mary's Meals

Feeding Education for a Better Future

We are proud to partner with Mary's Meals, an association dedicated to providing school meals to children in developing countries. Through our support, we have adopted two schools: the Kamanda School in Liberia, which welcomes 152 pupils, and the St. Betty School in Zambia, with 1,392 children. Thanks to our contribution, these children receive a daily school meal, a small gesture that makes a big difference. A simple meal not only nourishes, but encourages learning, improving opportunities for growth and future for young students. We believe that supporting children's education and nutrition means investing in the future of communities, helping to create a more equitable and prosperous world.

T TRY I
MEASURE 4.2 IMPROVE
M ENJOY E

Time 4.2

Sport as a Pillar of Growth and Integration

In addition to education and nutrition, we are convinced that sport plays a crucial role in the development of young people. For this reason, we support Time 4.2, a sports association that actively operates in Bergamo and its province. Founded in 2015 by a group of passionate coaches and parents, Time 4.2 promotes sports among young people, organizing multi-sport courses and events that promote social integration. We share the ideal that sport should be a pillar of growth, education and training, as well as being a tool for fun for every child.

As a benefit corporation, MIR Group places social commitment at the heart of its mission. We believe that a company's success is not only measured by its bottom line, but also by the positive impact it can have on society. For this reason, we have chosen to support two organizations that share our values and actively work for the well-being of communities.

Members & Partners

plenitude

ANCE | ASSOCIAZIONE NAZIONALE COSTRUTTORI EDILI

CQOP SOA
COSTRUTTORI QUALIFICATI OPERE PUBBLICHE

USGBC MEMBER

CONFINDUSTRIA BERGAMO

ALUMERO

masaar

ARADA

ENERPARC

Astrikos

MIR & ENERPARC

MIR and Enerparc unite expertise and innovation to lead the global transition to clean energy. MIR brings cutting-edge engineering and end-to-end project execution across the clean energy spectrum, while Enerparc, with over 4 GW of utility-scale solar projects in more than 20 countries, delivers world-class EPC and IPP services. Together, they offer a powerful partnership that combines technical excellence, global reach, and a shared commitment to a sustainable energy future.Together, MIR and Enerparc are setting new standards in renewable energy deployment.

Our Joint Capabilities

Turnkey Solar EPC
Full lifecycle delivery of utility-scale and C&I solar projects.

Hybrid Solutions
Solar + Battery Storage for 24/7 energy supply.

O&M Services
Performance-focused Operations & Maintenance for long-term asset health.

Power Purchase Agreements (PPAs)
Reliable energy at competitive rates through long-term PPAs.

Engineering & Consulting
Bankable project development, design, and feasibility assessments.

Our Global Reach

4+ GW Installed Worldwide

Active in Europe, Asia, Middle East, and Americas

Over 500+ Employees Worldwide

Engineering excellence in electrical, civil, and automation

Experience across energy, infrastructure, and industrial sectors

Regional presence with global delivery capacity

Project Highlights

100 MW Solar Park	India
250 MW PV Plant	Germany
50 MW Solar + Storage	Middle East
5 MW Rooftop Solar	Industrial client

How We Work.

Values that define our culture

Integrity

We deliver on our promises with honesty, transparency, and accountability.

Excellence

We engineer and construct systems that meet the highest industry standards.

Sustainability

We build with the planet in mind, optimizing for long-term environmental benefit.

Innovation

We embrace new technologies and practices that add real project value.

Safety

We prioritize the health and safety of all workers, partners, and stakeholders.

Collaboration

We work hand-in-hand with clients, vendors, and institutions to ensure project success.

Scope.

Our services are designed to ensure projects are meticulously planned and built to the highest standards, using the best available equipment. We handle all aspects of the project, from design and authorization for construction to commissioning and securing a grid connection. We provide a wide range of services including advanced design, construction, project management, and green building certifications. Our commitment to quality underpins the entire process, ensuring a high-performing and durable system.

With a focus on intelligent energy management, smart automation, and low-carbon construction techniques, we provide clients with a roadmap to sustainability, enabling them to enhance operational efficiency, qualify for green financing, and achieve long-term cost savings.

Grid Connected
PV Plant

Rooftop Solutions

Transforming India's Urban and Industrial Landscape

Hybrid Solar
PV Plant

Ground Mount Solutions

Global Utility-Scale Power Solutions

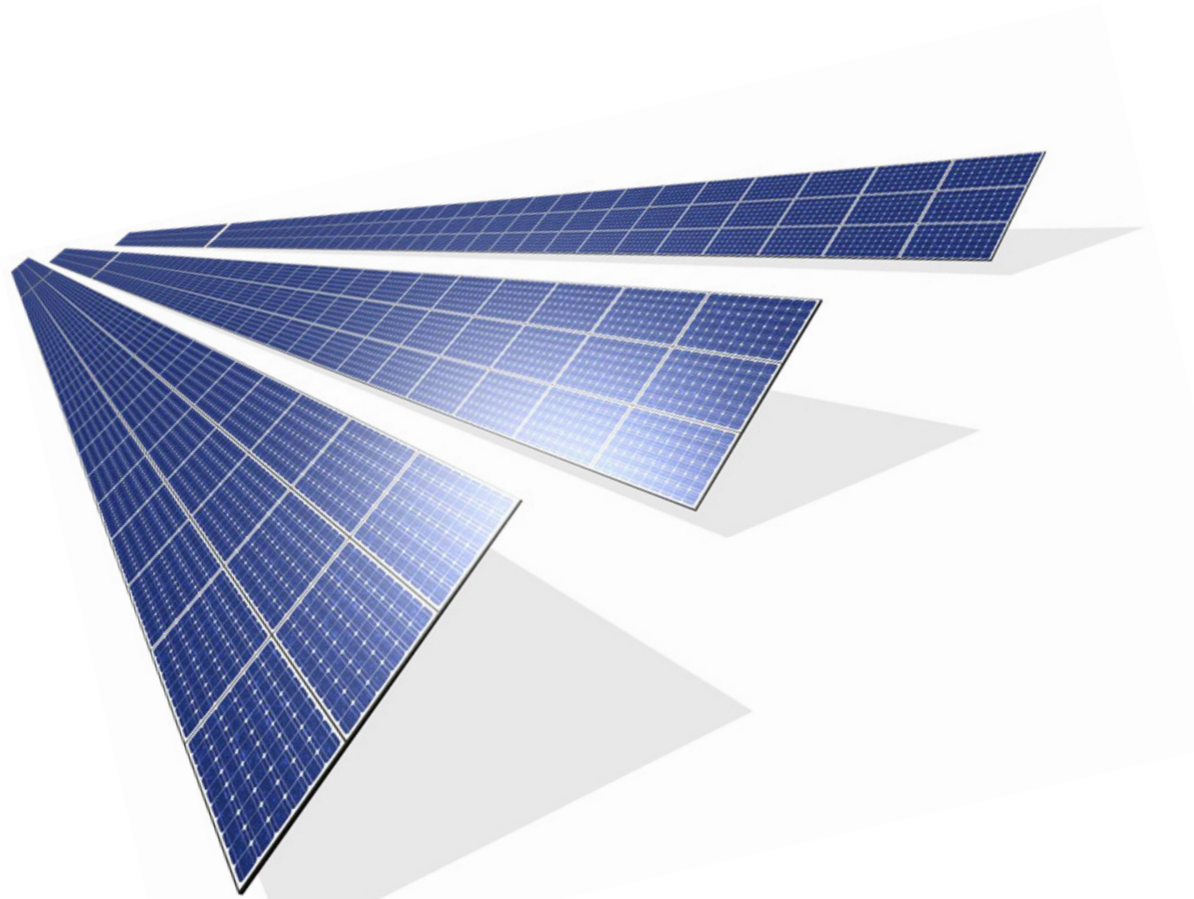
Off-grid
Battery Based

BIPV Solutions

The Next Generation of Architectural Integration

Our Approach to EPC
Engineering

We go beyond the initial design concept to a detailed execution design blueprint. This includes a basic design for initial feasibility, a preliminary design with detailed material definitions, and a final execution design for construction.



RfP/tender pre-qualification

- Technical conceptdesign based on custom
- requirements
- Plan for feasibility study parameters

Investment decision/ Financial closure

- Yield assessment based on solar resource
- (P50-P90 values)
- Scaled plan of all requirements in RfP
- BOM definition & quantities

Construction

- Provision acceptance certificate

BASIC DESIGN »

- Site identification
- PV Technology definition
- Preliminary layout
- Energy yield prediction
- Initiate permitting
- Grid connection assessment
- Indicative BOM

PRELIMINARY DESIGN »

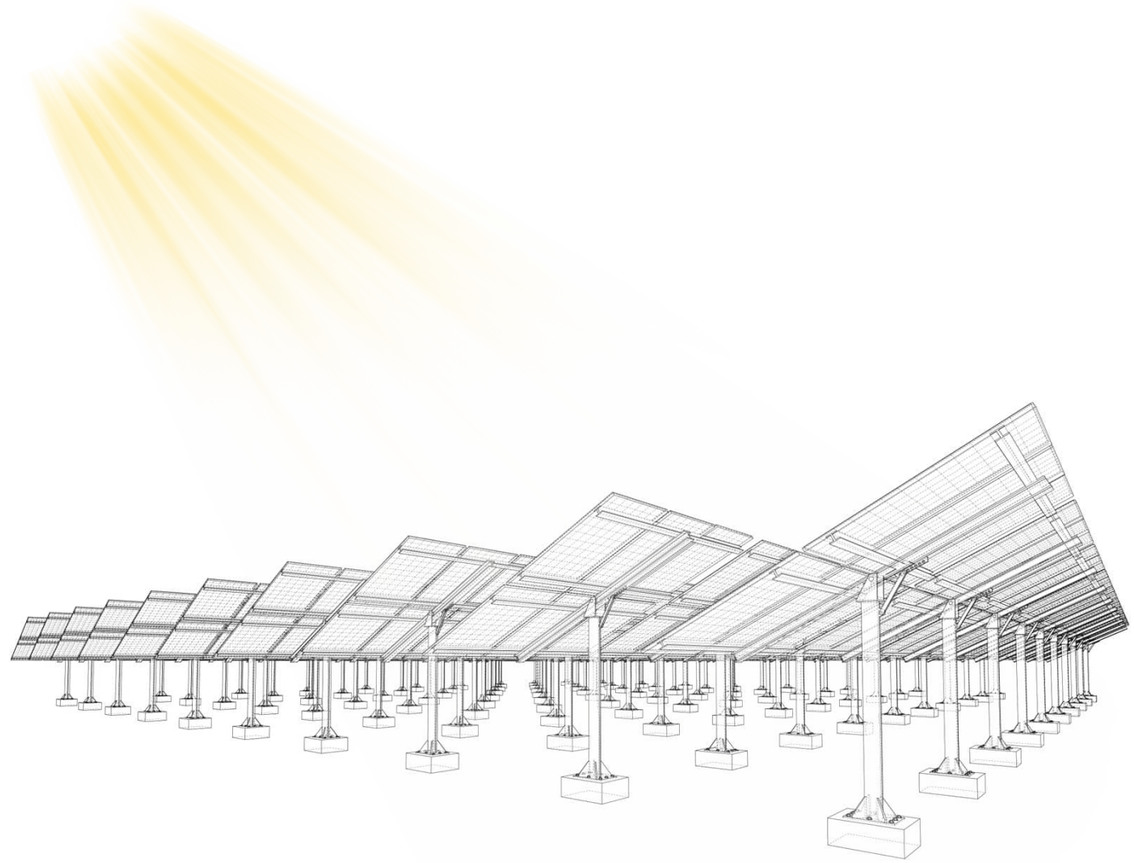
- Geotechnical survey and grid requirements
- Solar resource assessment
- General string layout
- System design: trenches, LV-MV layout, SCADA, surveillance, met station
- General civil design
- Preliminary BOM

EXECUTION DESIGN »

- Final permitting and environmental considerations
- Execution layout
- IFC set of documents
- Commissioning and test plans
- Projects management plan
- Execution BOM

AS BUILT

- Set of as built documents
- Manuals and licenses
- O&M manual
- Spare parts handover



Procurement

We have a meticulous procurement process that covers the selection and purchase of components, identifying and mitigating risks through suitable inspection and testing mechanisms. We adhere to SECI's technical requirements and ensure all components are sourced from manufacturers on the Approved List of Module Manufacturers (ALMM) list as per MNRE orders.

- Contracts Management
- Raw Material Purchase
- Vendor Sourcing
- Quality Controls
- Storage Controls

Construction

Our construction phase is based on diligent project management techniques and is organized into preparatory and implementation phases. We coordinate all activities to ensure a smooth realization of the power plant, from civil works to electro-mechanical installations.

- Workforce Management
- Civil Works
- Equipment & Tools Supply
- Iron Fabrications
- Site Safety

Commissioning

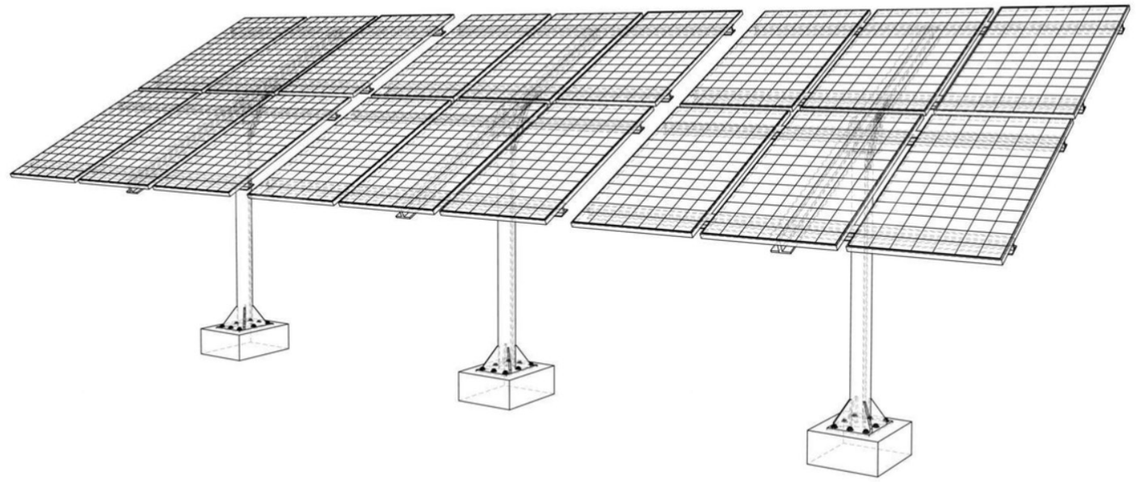
System commissioning is a crucial stage that closes the construction period and prepares the PV plant for commercial operation. This involves off-grid and on-grid tests to ensure the plant is built according to international standards, industry best practices, and complies with owner and grid specifications. We work towards achieving the Provisional Acceptance Certificate (PAC), which triggers the standard two-year warranty period.

- Trial Runs
- Quality Checks
- Safety Protocols
- Certifications

Ground Mount Solar EPC

With diligent project planning and accurate execution, our solutions are tailored based on the uniqueness of your requirement. We manage the entire lifecycle of ground-mount solar development, from strategic consultancy and operational design to on-site construction, ongoing testing, and maintenance.

Our approach begins with a comprehensive Design and Analysis phase, where we conduct detailed site-specific studies to optimize the layout, performance, and structural integrity of the solar farm. This meticulous planning is followed by Timely Execution, where our project management and on-site construction teams work to a clear schedule and a detailed plan to ensure on-time delivery.



Subcontractor Management

We work with experienced subcontractors who adhere to our strict installation manuals and quality standards, ensuring a high-quality installation.

Cost Management

We implement robust financial controls throughout the project lifecycle, from initial budget allocation to final completion. Our cost management strategies focus on transparent procurement, accurate forecasting, and continuous monitoring to ensure the project remains on budget and avoids unforeseen expenses. We use detailed financial analysis and reporting to optimize value and deliver a predictable return on investment for our clients.

Quality Components

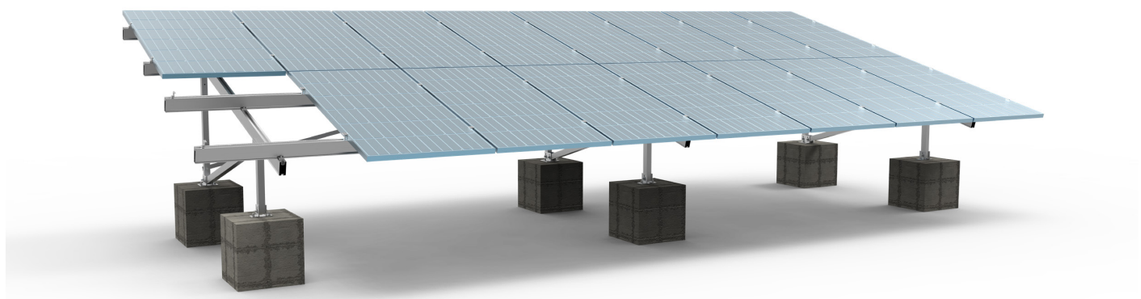
We provide a wide range of ground-mounted solar solutions offering freedom and flexibility to support PV modules of various types. All components are procured with a focus on durability and compliance with standards like IS 875 for design loads and IS 4759 for galvanization thickness.

Milestone-Based Project Management

Our projects are managed with a clear Work Breakdown Structure (WBS) and a detailed schedule to monitor progress and ensure on-time delivery. We use KPIs to track deviations in time, budget, and quality, ensuring accountability at every stage.

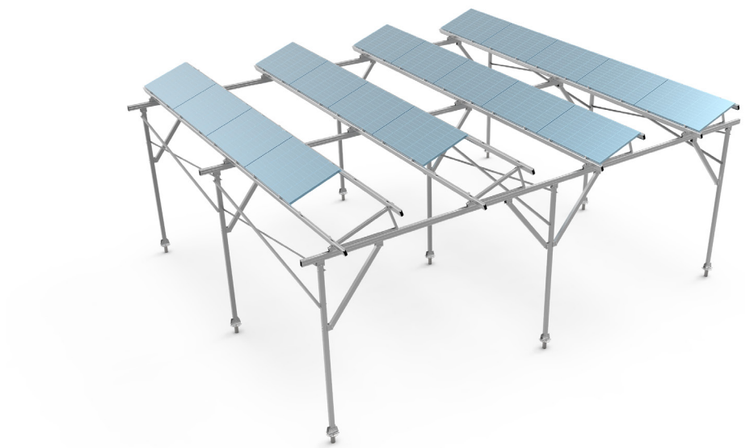
Fixed Tilt Structures

Fixed tilt structures are the most common type of ground-mounted solar installation in India. They offer a simple, robust, and cost-effective solution for large-scale solar farms.



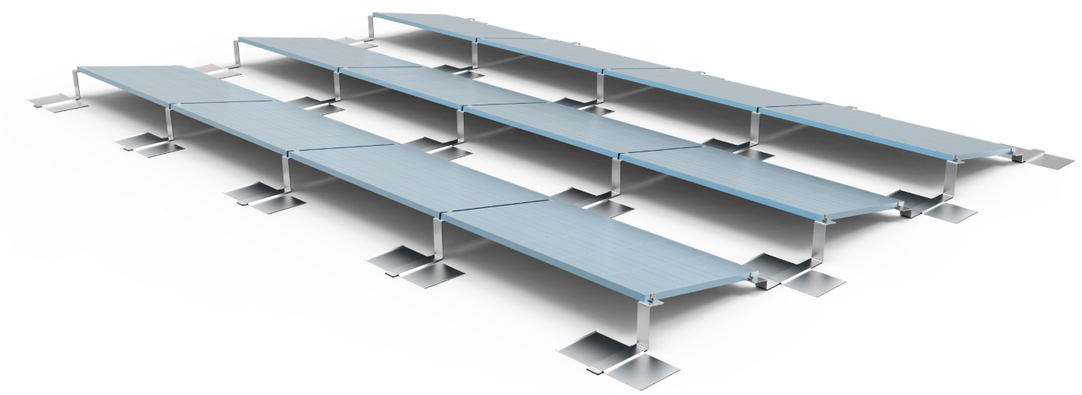
Seasonally Adjustable Tilt

Climate is characterized by distinct seasons, with the sun's path changing significantly between summer and winter. Our seasonally adjustable tilt systems are designed to capitalize on this variation to boost energy output.



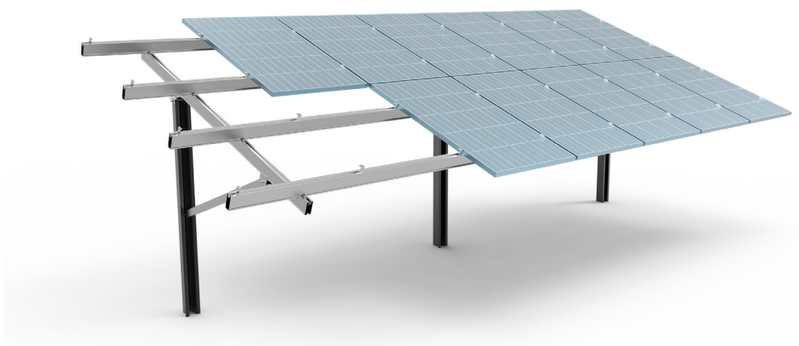
Ballasted Mount

For sites where ground penetration is not feasible or desired, such as on landfills, rocky ground, or sites with specific environmental restrictions, we offer a non-invasive, ballasted mounting system.



Pile Driven Ground Mount

The foundation of a ground-mounted solar plant is crucial for its long-term stability and performance. For many soil conditions in India, the rammed post or pile-driven method is the most efficient and reliable choice.

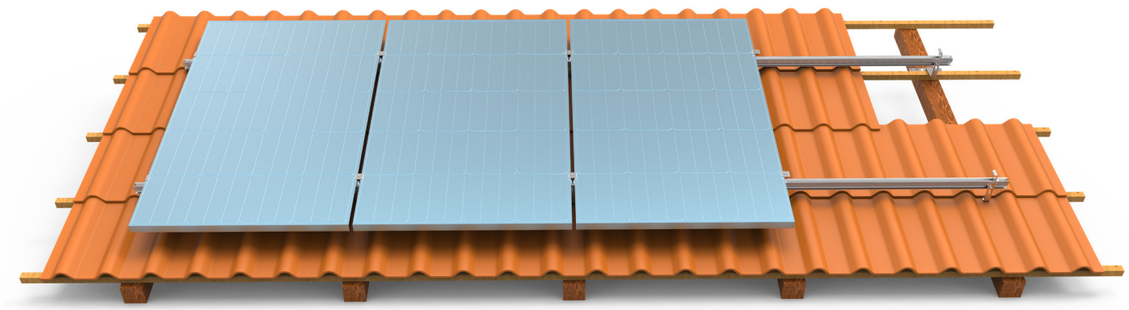


Single-Axis Tracker

Single-axis trackers are an advanced solution that significantly increases the energy output of a solar plant. This is achieved by continuously following the sun’s path as it moves across the sky.

Dual-Axis Tracker

Dual-axis trackers represent the pinnacle of solar tracking technology. These systems provide the highest possible energy yield by following the sun’s path on both a horizontal and a vertical axis.



Analysis

We provide comprehensive preliminary studies to determine the feasibility of a solar project, including customer identification, site selection, and securing financing. Our experts conduct detailed analyses to ensure a solid and realistic business plan, which includes an estimated yield study based on industry standards to underpin expected production.

Subsidy

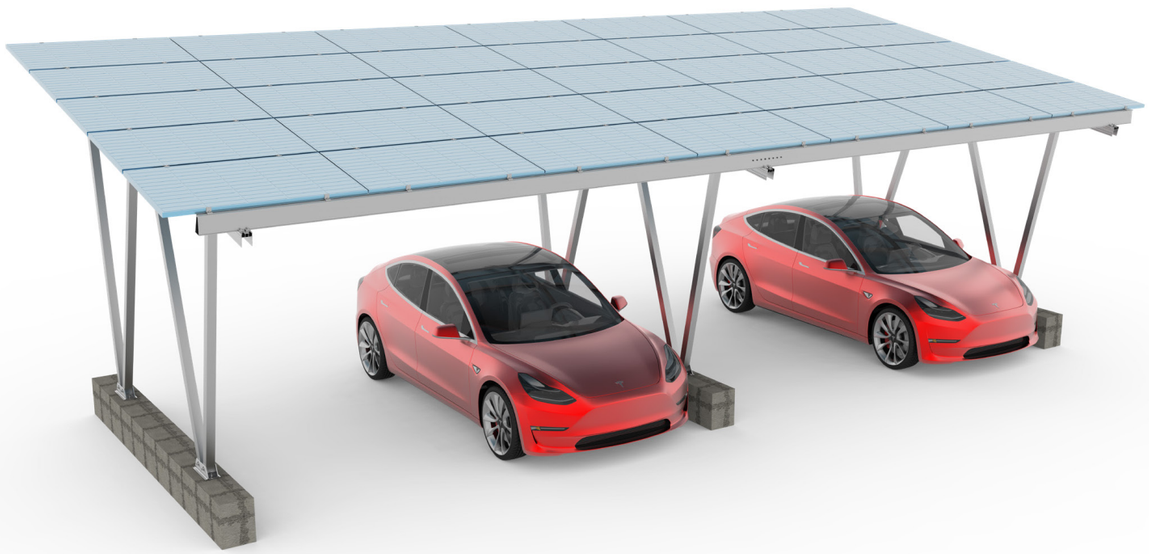
We assist clients in navigating the application process for relevant subsidies and incentives. This ensures you can benefit from government support schemes designed to accelerate the adoption of solar energy.

Financing

Our services include providing support in securing project financing. We assist with the preparation of necessary documentation and work closely with lenders to ensure your project meets all bankability criteria. We can help you qualify for green financing and achieve long-term cost savings.

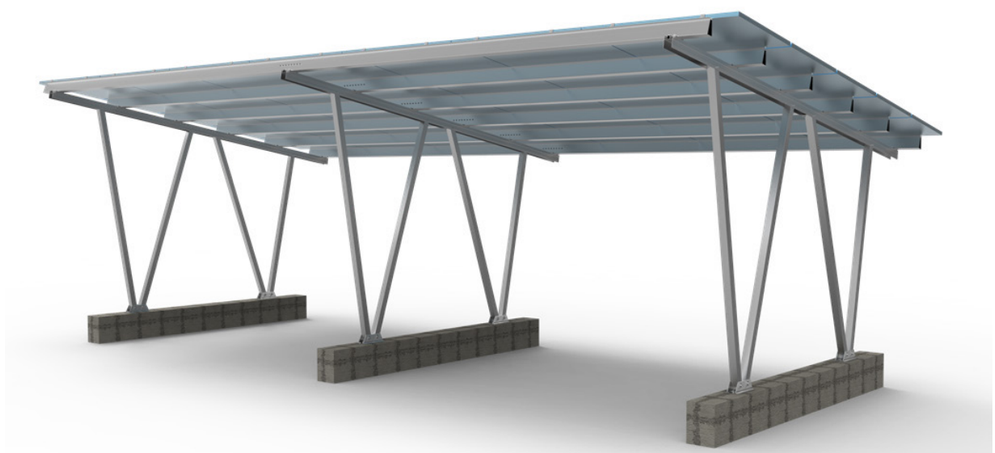
Smart Metering

We integrate smart metering solutions into our systems to provide real-time data on energy generation and consumption. This allows for transparent billing and helps you optimize your energy usage and operational efficiency.



Smart PV Carport

Our modular carport is built with a strong emphasis on low weight and simple, cost-effective installation. It’s made of durable, corrosion-free steel. The PV modules and prefabricated components are easy to install. Thanks to its modular design, the carport can be easily expanded later.



Site-Specific Engineering

Our engineering team conducts a thorough site assessment, including structural analysis of the rooftop, to design a system that is safe, efficient, and compliant with local regulations.

Quality Procurement

We procure high-quality PV modules, inverters, and mounting structures from reputable manufacturers that meet Indian standards such as BIS certification and are on the ALMM list.

Professional Installation

Our experienced installation personnel ensure proper storage, handling, and installation of all components to guarantee the long-term stability and performance of the PV system.

Grid Integration

We manage the entire grid connection process, ensuring compliance with the Indian Electricity Grid Code and other relevant regulations.

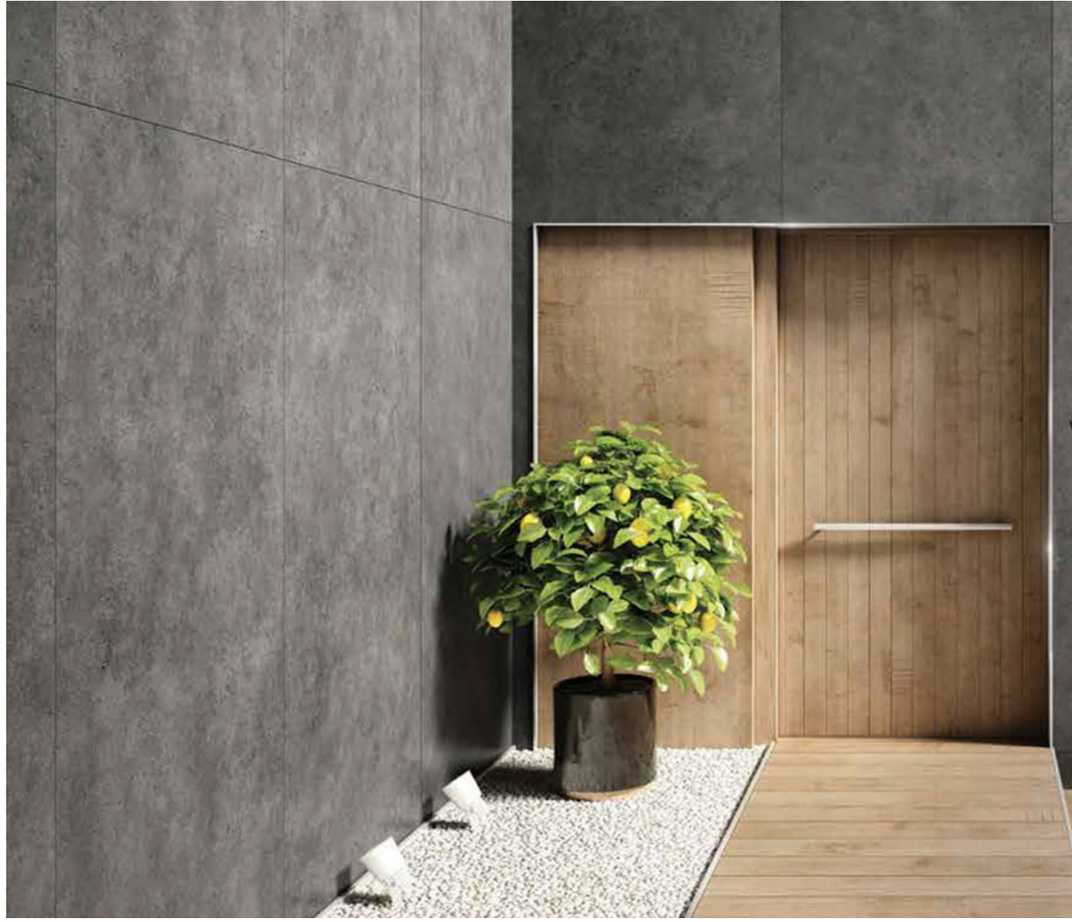
PARINI 9, MILAN

Sustainable Consulting

MIR Consulting is a financial and energy consulting company that stands out for offering complete and personalized services to its customers. The company's main mission is to guide customers through the challenges and opportunities of the market, helping them make informed and strategic decisions to maximize their investments and to obtain the most important energy certifications.

Thanks to its extensive experience in the financial sector and its in-depth knowledge of the construction market, MIR Consulting is able to provide expert and strategic advice that takes into account the specific challenges and needs of clients. This means that each proposed financial solution is tailor-made, designed to maximize the returns on customers' investments, while reducing risks and promoting the economic and social resilience of the communities involved.

These services are not limited only to the mere issuance of certificates, but also include comprehensive and personalized support in all phases of the processes involved. From the moment of the initial analysis to the practical implementation of the proposed solutions, the MIR Consulting team is committed to ensuring an integrated and targeted approach to the specific needs of each client.



Sustainable Design

We specialize in transforming urban environments to enhance citizens' quality of life, reduce resource waste, and promote sustainable development. Our expertise lies in new construction and the redevelopment of degraded or unused buildings and urban areas, utilizing the restoration and reuse of public and private spaces. Our goal is to create safer, healthier, more livable, and inclusive urban environments that drive economic and social development while maintaining luxury and aesthetic standards.

Our highly skilled team excels in managing the full range of design interventions. This encompasses administration and consultancy, operational design, on-site construction, and ongoing diagnosis, testing, and maintenance. We deliver a seamless and comprehensive approach from inception to completion, ensuring successful and efficient outcomes in every project.

We are committed to offering innovative and sustainable solutions in the field of architectural, energy and structural design. Founded on a future-focused vision, our design stands out for its dedication to responding to the challenges of climate change and urbanization, paying particular attention to European deadlines regarding the compliance of buildings by 2030 and 2050.

In architectural design, we stands out for its ability to combine innovative forms with optimal functionality, creating spaces that not only meet the needs of their inhabitants, but that integrate harmoniously into the surrounding urban context. Attention to detail and quality of materials is crucial to ensure the durability of projects.

Renewable Energy Certificates (RECs)

In the transition to a sustainable future, a clear and verifiable system is needed to track and account for the “green” attributes of renewable energy. This is the purpose of a Renewable Energy Certificate, or REC. An REC is a market-based instrument that certifies the generation of one megawatt-hour (1 MWh) of electricity from a renewable energy source. It contains unique information such as the type of renewable source (solar, wind, hydro), the location of the power plant, and the date it was generated.

Value Proposition.

Maximizing REC Generation

Our EPC services are focused on designing, procuring, and constructing high-performance solar plants that are engineered for optimal energy output. By maximizing your plant’s efficiency and reliability, we ensure a consistent and robust stream of RECs is generated.

Navigating Certification and Compliance

The process of registering a solar asset to generate RECs can be complex. We assist our clients with all aspects of this procedure, from preparing the necessary documentation to engaging with regulatory bodies like the National Load Dispatch Centre (NLDC).

Strategic Market Guidance

We provide our clients with expert advice on the dynamics of the REC market in India. We help you understand market trends and a price mechanism to maximize the monetary value of the RECs you generate.

Energy Certification

MIR Consulting offers sustainability assistance services, aiming to go beyond the simple balance between environmental, social, and economic aspects. The company, through its experienced multidisciplinary team, supports clients throughout the certification process according to leading national and international rating systems, particularly those developed by the U.S. Green Building Council (USGBC), the International Living Future Institute (ILFI), BREEAM (Building Research Establishment – BRE), International Finance Corporation (IFC)and the International WELL Building Institute (IWBI).

Our extensive experience and persistent dedication to sustainability position us as essential actors in developing high-quality, cost-effective building designs with little environmental impact. Working directly with investors and designers allows us to stay on the cutting edge of the industry and generate positive change.

USGBC MEMBER

Professionals and expert associates at MIR Consulting

- LEED AP BD+C, ID+C, O+M, HOMES
- LEED Green Rater
- BREEAM AP
- BREEAM in-use Assessor
- USGBC LEED Faculty
- Energy Rater, HERS
- WELL AP
- WELL Testing Performance Agent
- WELL Faculty
- WiredScore AP
- RESET AP
- Living Future Accredited (LFA)
- Fitwel Ambassador
- GBC HOME AP, Historic Building AP
- Energy Manager EGE
- ESG Auditors - SGR 88088:20
- ISO and SOA Accredited Professionals

ISO Certification

We guide you through the process to ensure you are at the forefront of sustainability and business efficiency through ISO certifications

ISO 50001:2011: Energy management
ISO 14001:2018: Environmental management system
ISO 30415:2021: Social inclusion and diversity in human resource management

BREEAM

BREEAM® In-use
BREEAM® New construction
BREEAM® Refurbishment and fit-out
BREEAM® Communities

LEED

Building Design and Construction (BD+C)
Interior Design and Construction (ID+C)
Building Operations and Maintenance (O+M)
Neighborhood Development (ND)
Home or residential design

WELL

WELL™ Certification
WELL™ Core Certification

EDGE

EDGE Certified
EDGE Advanced
Zero Carbon

ESG Program

Our ESG services begin with a thorough understanding of our clients' objectives and their national and international commitments. We also conduct an independent assessment of their operations to recommend the best projects or activities for a successful Environmental Social Governance strategy.

Having collaborated across various industries, we provide seamless advice on optimal solutions and best practices to meet ambitious ESG goals. Our team of in-house and partner experts covers a comprehensive range of sustainability topics, including Climate Change, Carbon Emissions, Energy, Water, Social Responsibility, and Governance policies.

- Audit for verifying the compliance of
- sustainability management systems
- Carbon footprint
- Monitoring and reporting of GHG emissions
- Strategies for reducing CO2 emissions
- Adjustment of the management system to
- SRG8808 standards
- ESG financial products for redevelopment

Environmental, Social & Governance (ESG)

MIR Group places social commitment at the core of its mission, believing that a company's success is also measured by its positive impact on society. We are a benefit corporation dedicated to sustainable urban regeneration, focusing on environmental responsibility, energy efficiency, and carbon neutrality. Our mission is to regenerate cities and buildings through sustainable and innovative solutions, creating energy-plus, negative-emission buildings that improve quality of life and promote sustainable community development.

Our ESG Program.

Environmental Commitment

Net Carbon Zero: MIR aims for net carbon zero emissions through innovation. The company's projects are meticulously planned and built to the highest standards, utilizing intelligent energy management, smart automation, and low-carbon construction techniques to enhance operational efficiency and achieve long-term cost savings for clients.

Renewable Energy: MIR Group's solutions include green building materials like energy-efficient facades and thermal insulation, and renewable energy solutions such as solar technologies. The company assists with Renewable Energy Certificates (RECs) by designing high-performance solar plants, navigating the certification process, and providing strategic market guidance.

Social Responsibility

Community Well-being: The company's mission is to create livable, dynamic communities and improve people's quality of life and living comfort. They aim to create safer, healthier, more livable, and inclusive urban environments.

Partnerships and Support: MIR Group has chosen to support organizations that share its values and actively work for the well-being of communities. The company is a proud partner of Mary's Meals, an association that provides school meals to children in developing countries. Through this partnership, MIR has adopted two schools, providing a daily meal to 1,544 pupils. Additionally, MIR supports Time 4.2, a sports association that promotes sports and social integration among young people.

Governance & Certifications

Project Lifecycle Management: The highly skilled team manages the entire lifecycle of real estate development, from strategic consultancy and operational design to on-site construction, testing, and maintenance.

Certifications: MIR Consulting supports clients throughout the certification process for leading international rating systems like LEED, BREEAM, and WELL. The company also offers guidance for ISO certifications and has ISO and SOA accredited professionals.

Sustainable Development

MIR Group and its subsidiary, MIR Solution, are committed to advancing sustainable development through innovative and eco-friendly solutions. Our mission is to integrate sustainability into modern construction and technology, ensuring a greener, more efficient future.

We believe that true progress comes from responsible innovation. Our solutions focus on reducing carbon footprints, optimizing energy efficiency, and promoting environmentally friendly construction practices.

Through MIR Solution, we deliver cutting-edge sustainability solutions, including green building materials such as energy-efficient facades, smart glass, and thermal insulation. Our smart automation systems enhance energy efficiency by reducing waste and optimizing resource use. Additionally, our renewable energy solutions, including solar energy technologies, contribute to long-term sustainability and energy savings.

BIPV Solutions

A Fusion of Aesthetics and Energy

Facade

Cover the entire building facade without aesthetic or structural limits. From the infinite permutation ofcolors, dimensions and finishes, freelycreate your energy facade.

Free dimensions
Max: 2000 x 3000 mm
Min: 200 x 300 mm

Free collections
All Material Collections
All Essence Collections

Puzzle

A modular system of building blocks to compose your architectural facade. From the combination of selected colors, dimensions and finishes, create your facadecomposition.

3 prefixed dimensions
730 x 1100 mm / 360 x 1100 mm / 360 x 545 mm

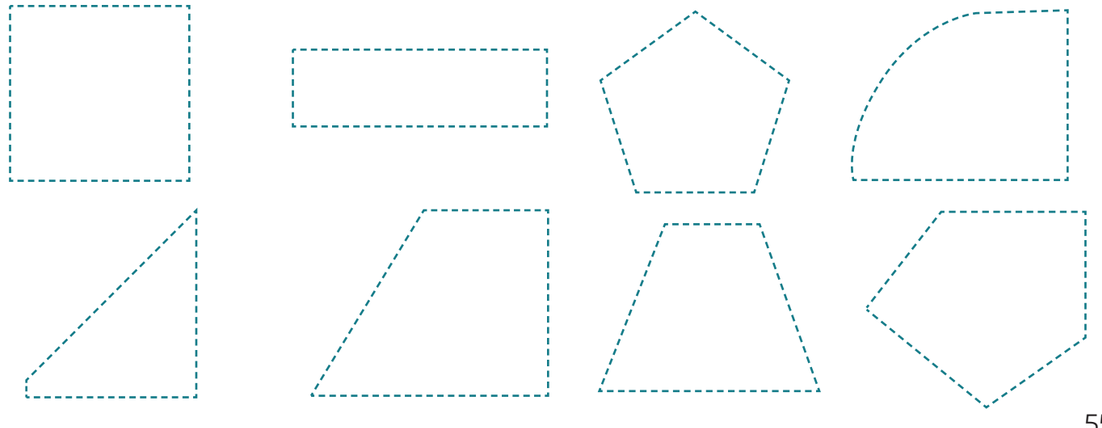
4 selected colors
Natural black / Silver gray / Orange brown / Traffic white

Tile

Transform every roof into an energy surface perfectly integrated into the building. From the combination of selected colors, dimensions and finishes, create your energy roof.

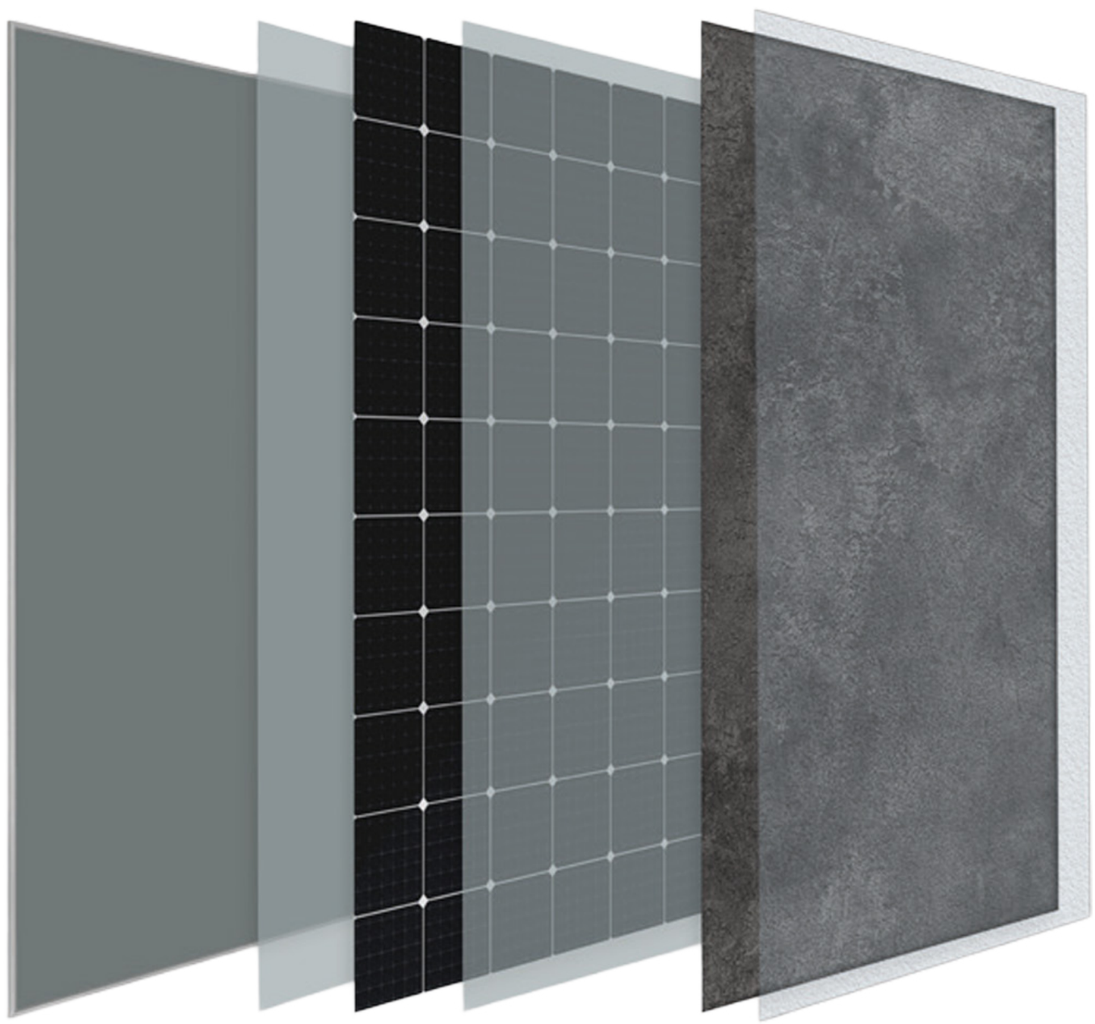
4 prefixed dimensions
1376 x 820 mm / 1376 x 450 mm / 686,5 x 820 mm / 686,5 x 450 mm

5 selected colors
Natural black / Silver gray / Orange brown / Mahogany brown / Oxide red



BIPV Solution

The next generation energy surface



Layer 3
Back glass

Back float clear glass 4mm, most of time with black color.

Layer 2
Encapsulant + Cells + Encapsulant

M6 HC da 166x83 Back Contact Invisible ribbon black colour with JB IP 67 - connector MC4.

Layer 1
Front glass + tactile surface

Front glass 4mm, tempered, edge grinded, corners cropped with coating.

Maximum efficiency

225 Wp/sqm
Maximum Power / Watt peak

96.9%
Up to efficiency
(compared to a PV panel)

30+
Years of full power lifetime.
After 30 years, energy productivity could decrease by up to 20%

1250h
Of solar transmittance,
Δ E ≤ 0,001

5000h
Of solar transmittance,
Δ E ≤ 0,002

250h
Of solar transmittance,
Δ E ≤ 0,001

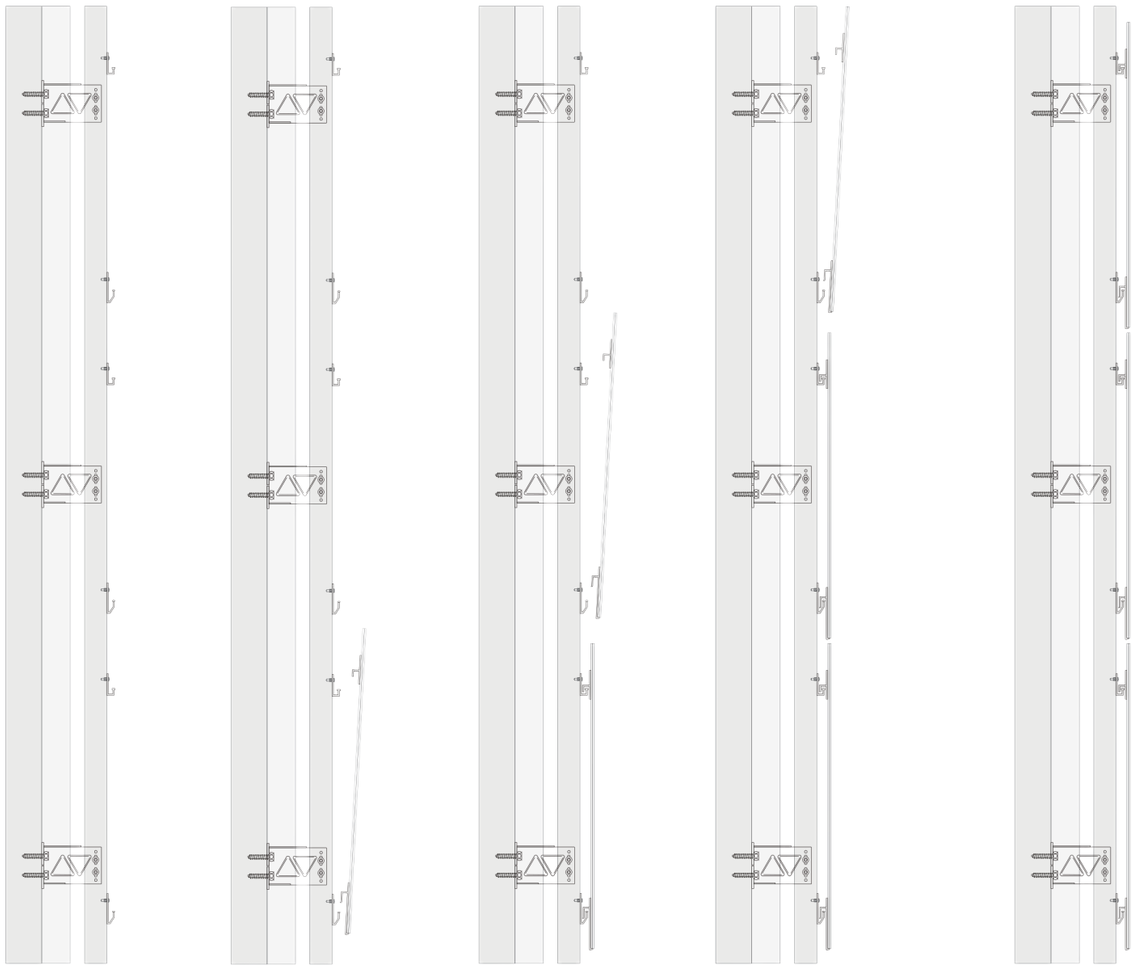
Versatile Mounting for Facades and Roofs

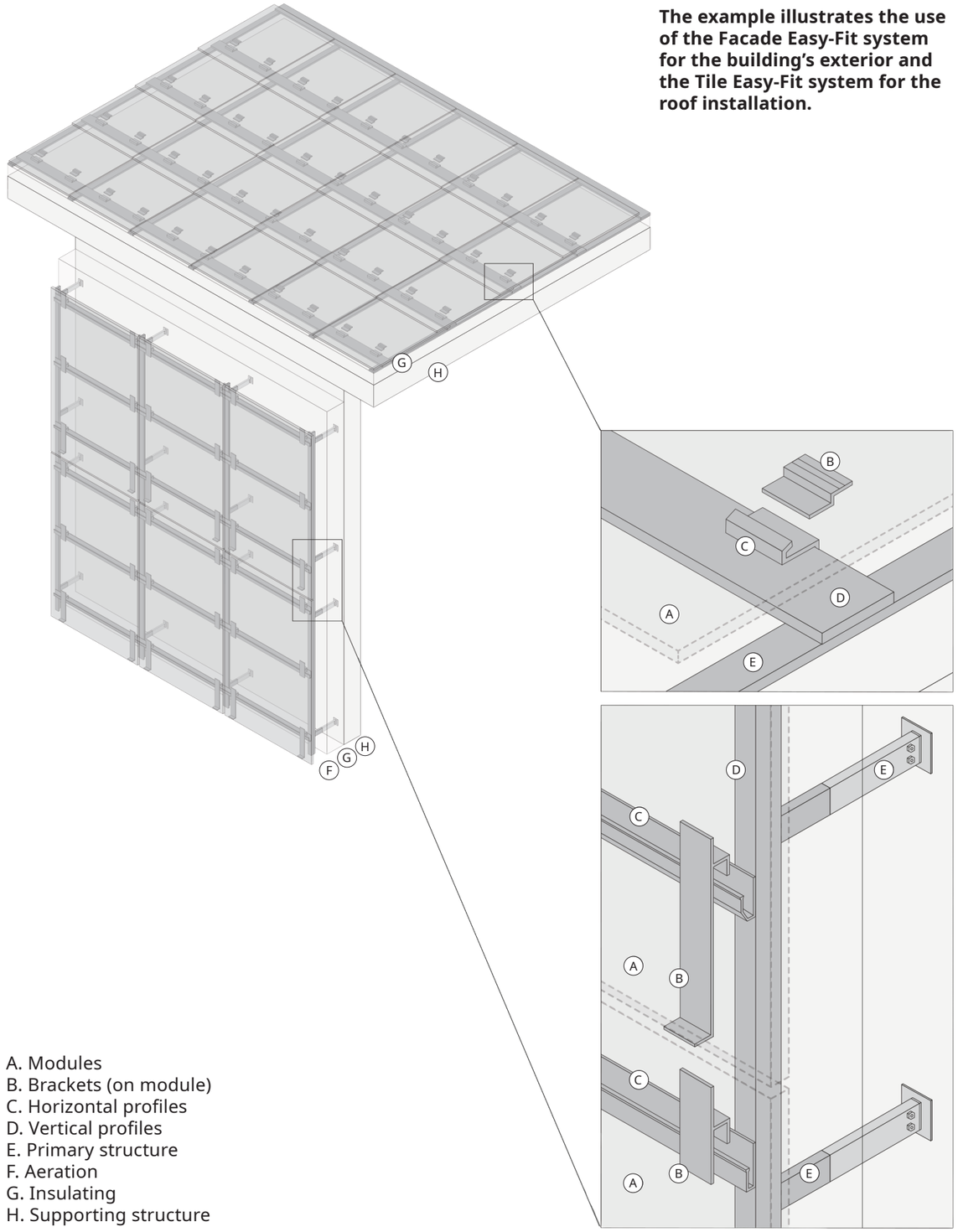
The Easy-Fit system provides a quick and flexible way to attach modules of any size or style on both facades and roofs. It is designed to ease the assembly process while also allowing for the most creative and customizable design options.

The concept enables modular surfaces to be readily built utilizing a clever hook mechanism, with some hooks embedded directly into the back of the panel (B) and others fixed on the supporting structure (C). Horizontal profiles are connected to vertical profiles, which are all held together by the Primary Structure (E), assuring elevation and overall stability.

Ventilation space (F), insulation type (G), and thickness are all totally configurable depending on customer requirements, resulting in bespoke performance for every project.

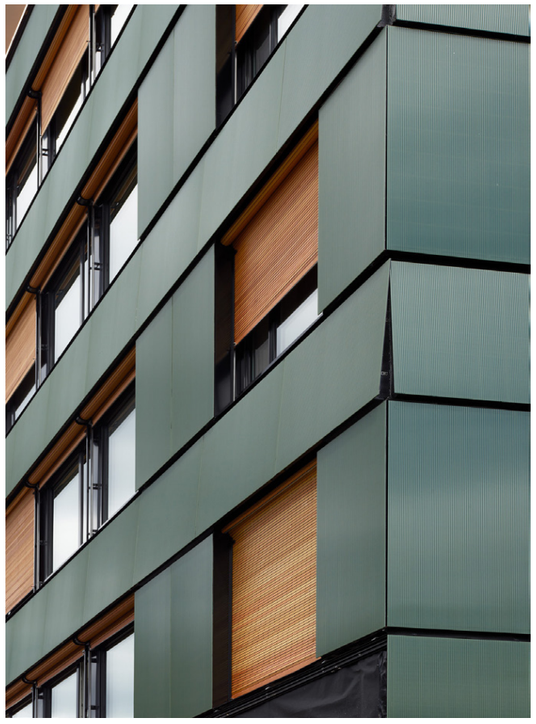
There are three variations of the Easy-Fit system available. Facade Easy-Fit, Puzzle Easy-Fit, and Tile Easy-Fit all operate on the same concept, but with distinct characteristics to meet different aesthetic and technical requirements.





The example illustrates the use of the Facade Easy-Fit system for the building's exterior and the Tile Easy-Fit system for the roof installation.

A. Modules
B. Brackets (on module)
C. Horizontal profiles
D. Vertical profiles
E. Primary structure
F. Aeration
G. Insulating
H. Supporting structure



Dimensions

A broad range of panel diameters are available to meet varied architectural needs, transforming whole structures into active, energy-generating surfaces. Options include big panels measuring 2000 x 3000 mm and smaller forms as small as 200 x 300 mm. Additionally, bespoke sizes can be given upon request via the facade solution.

While the facade system allows for custom scaling, other alternatives, such as the Puzzle and Tile variations, are available in standard proportions. This strategy simplifies production, saving substantial time and money.

For unique facade layouts, our staff will assess your desired dimensions and propose the best surface area for solar cell integration. This guarantees that your system produces as much energy as feasible.

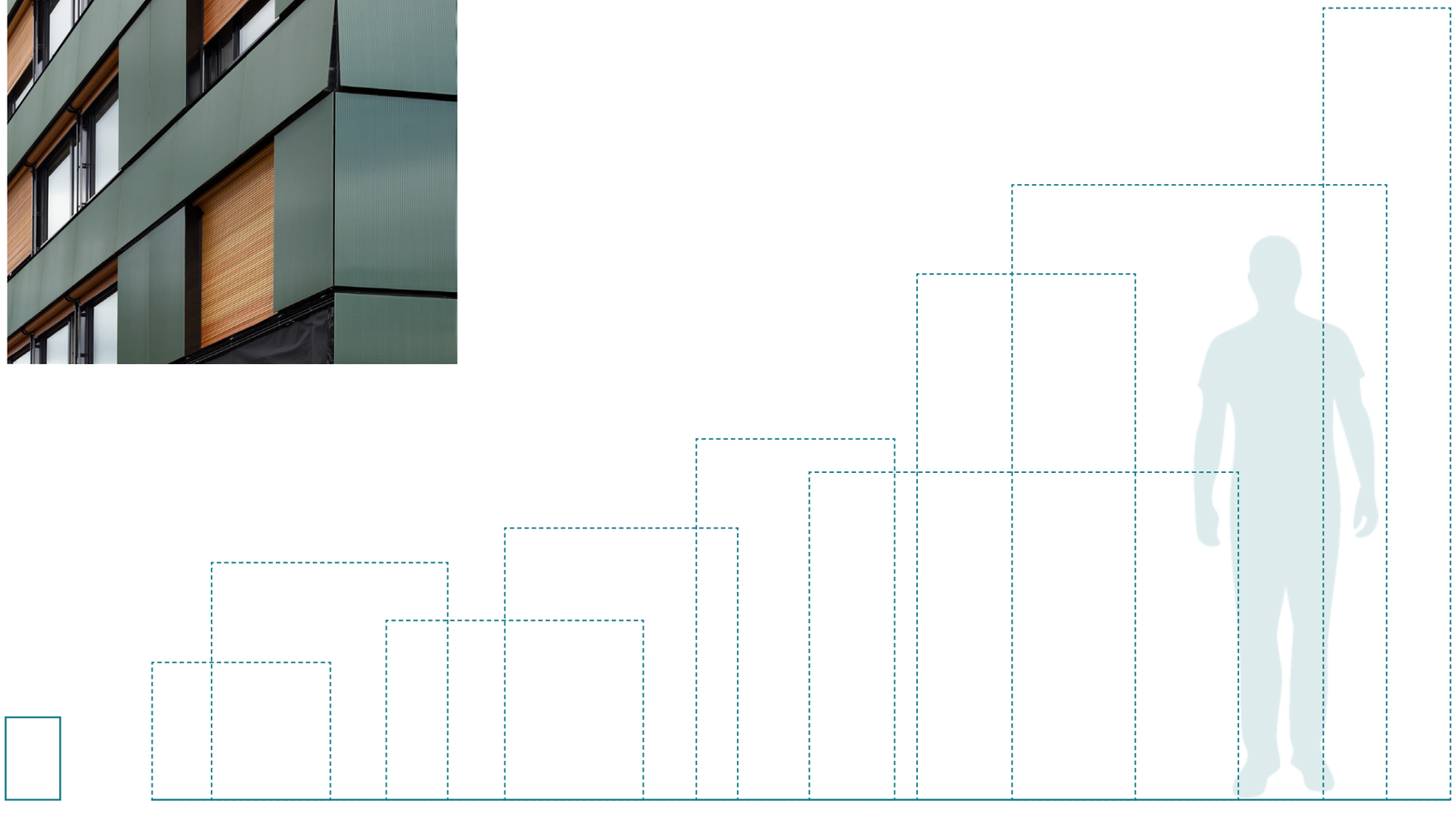
Complex Puzzle Compositions

For those who value geometric precision and design versatility, the Puzzle system provides panels in three carefully selected standard dimensions. These predefined sizes are engineered to support a wide variety of geometric arrangements across nearly any facade type. With just three module formats, it’s possible to create limitless and distinctive compositions, adding both structure and creativity to architectural surfaces.

Tile System Compositions

Tile modules are designed for linear, uniform installation by placing identical panels side by side. Each panel is spaced 3 mm apart horizontally and overlaps the panel below by 80 mm. This configuration creates a seamless, continuous surface while effectively preventing the infiltration of atmospheric elements by directing water and debris downward and away from the structure.

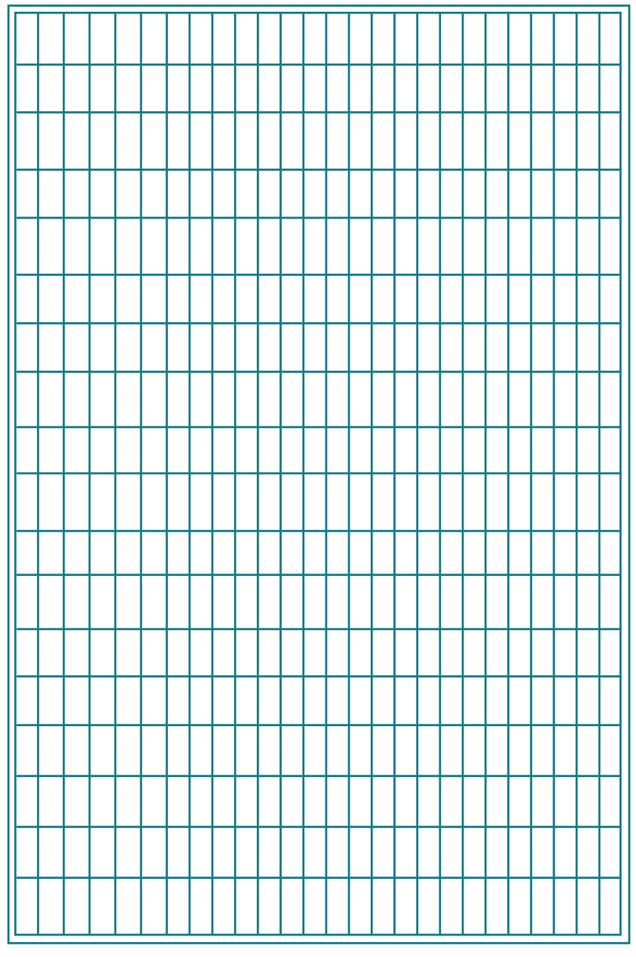
From large-scale panels to small modules, designed to cover the whole architectural exterior with consistent accuracy.



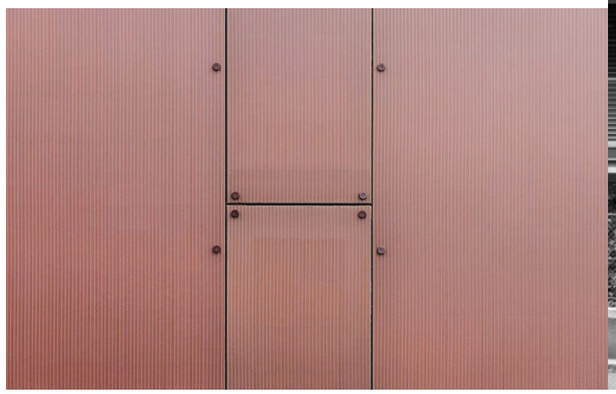
Minimum dimension
200 x 300 mm

All size between, up to

Maximum dimension
2000 x 3000 mm



Photovoltaic cell - M6 HC
da 166x83 mm



The New Aesthetic Solar Cladding

Facade photovoltaic panels are photovoltaic modules that are installed on the façade of a building. Depending on the choices made at the time of planning, it can be decided to place the panels on top of the building structure or to integrate them into the construction.

Transparent and semi-transparent modules are also available, which can be used to cover windows and glazing and to generate energy in these parts of the house as well.

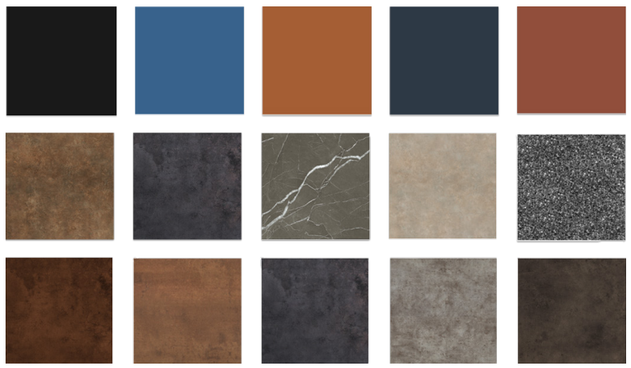
Solar panels can be used as solar facade cladding solution that fits both new facades (for integration) and existing facades for renovation or update of facade, turning it to energy efficient building solution.

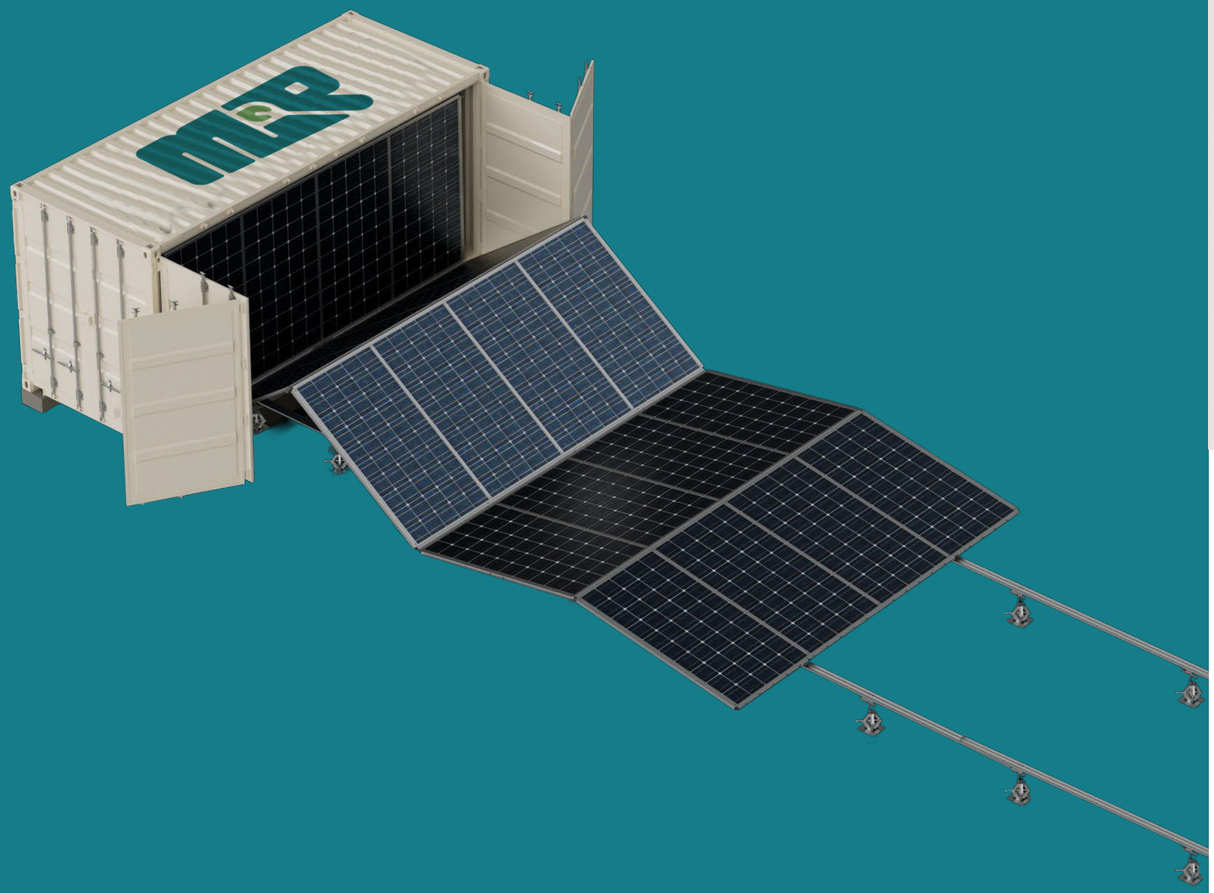
Our PV facade modules are lightweight and price competitive, therefore can be chosen as building cladding option to achieve visual appeal and energy efficiency. Our produced solar panels can be customized to fit your prefered system of mounting/fixation to the wall.

Aesthetic Options

We take advantage of the materiality of the glass. Suncol Facade offers a wide range of surfaces to better adapt to the characteristics of the project and the urban context.

The surface finishes, in particular the Natural surface, are proposed incombination with specific Material Collections capable of enhancing the veinsof the natural world.



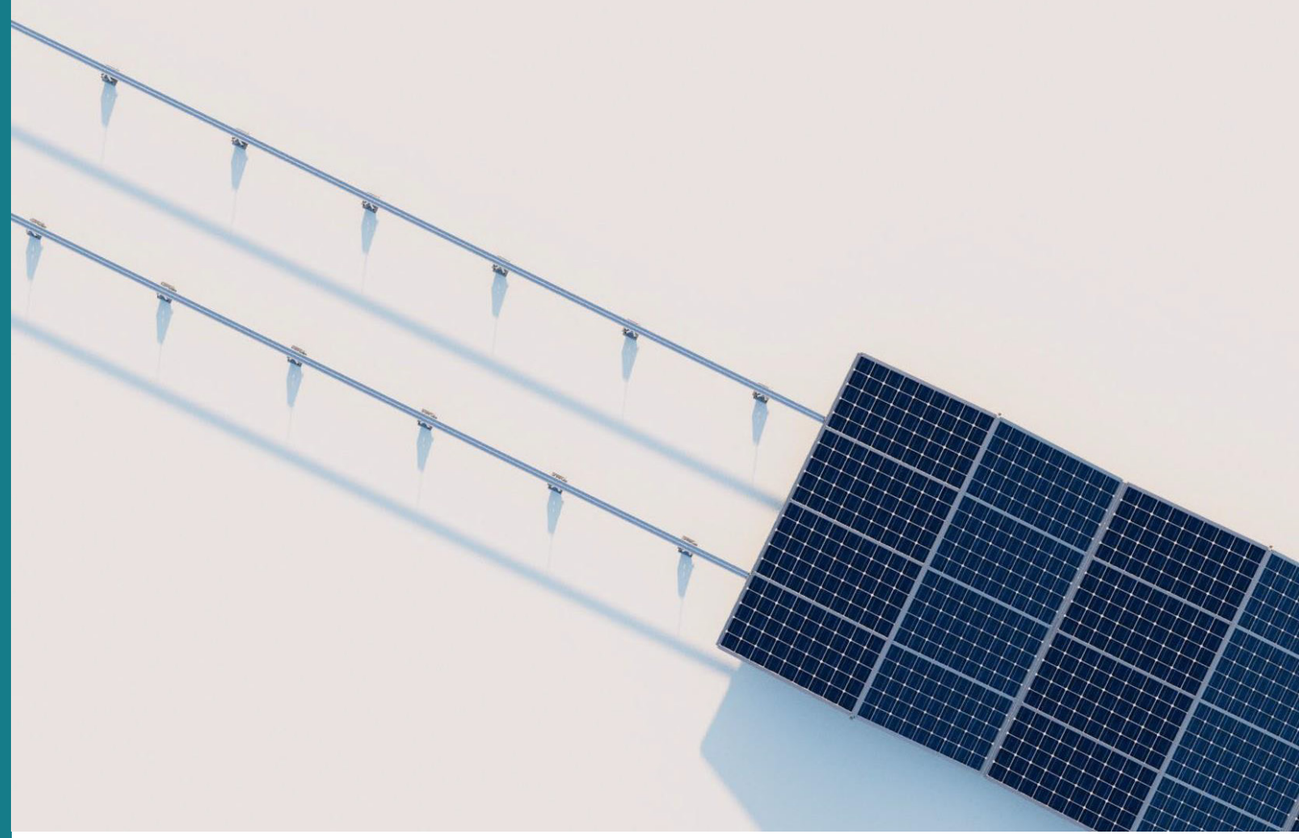


Mobile Solar Container

Solarfold

The solarfold is more than just a pioneering means of producing clean electricity; it's a mobile solar container that offers an investment with excellent returns. It features a lightweight and versatile substructure, and a semi-automatic electric drive gets the mobile photovoltaic system operational quickly. The on-grid version can be hooked up directly to the public power grid. The off-grid version consists of a solarfold container combined with an auxiliary power storage container.

20' HC (Side Door) / LBH: 6,058×2,438×2,896 m



196
PV-Modules

130 kWp
Power Output

110 kVA
Inverter

160 kWh
Storage (from Q3/2023)

6m × **130**m
Required Space

Plug and Play

The modules are pre-wired and ready for service, allowing for simple assembly.

Simple Installation

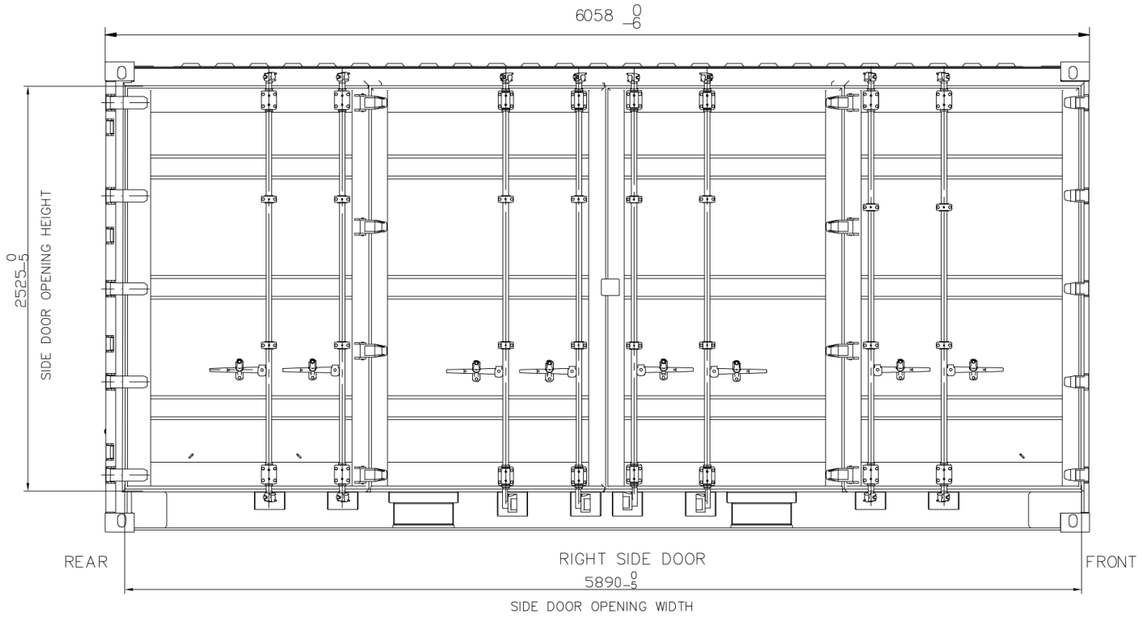
Anchorage is done with an innovative earth anchor system. Positioning the PV modules does not require cable trenches or earth compaction.

Simplified Licensing

The system allows for simplified licensing procedures.

Simplified Monitoring

Fast and versatile control is available via a dedicated app.



Simplicity, Versatility & Sustainability

The system provides clean, future-proof electricity production. The rails and underconstruction are made from metagreen secondary aluminum, which is a perfect, corrosion-resistant, and light material with a long lifetime. This secondary aluminum contains an average of 80% recycled material, guaranteeing the lowest possible CO_2 emissions.

Thermal Insulation Solutions for Buildings

Designed to enhance energy performance and durability, our panels are a top choice for both new construction and renovation projects. By offering superior heat insulation, reducing energy costs, and improving overall building comfort, they address the most pressing needs in modern construction. With features like lightweight construction, exceptional durability, and eco-friendly materials, our thermal insulation panels provide a practical and sustainable solution for optimizing your building's energy use and environmental impact.

Our thermal insulation panels are designed primarily for insulating external walls, columns, and beams. They are suitable for both new construction projects and retrofitting existing buildings.

THERMAL INSULATION AND ENERGY SAVINGS

RECOMMENDED FOR REFURBISHMENT

RECOMMENDED FOR NEW BUILDINGS

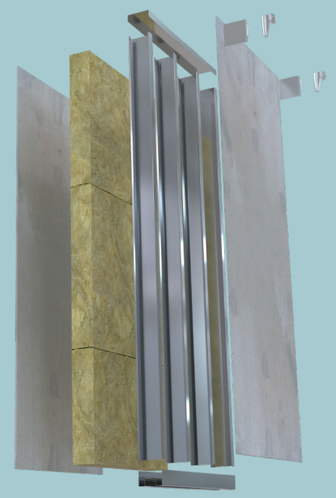
THERMAL BRIDGE ERADICATION

SOUNDPROOFING

PROTECTION FROM WATER AND SOLAR RADIATION

EXTENDED LIFE OF THE OVERCOAT

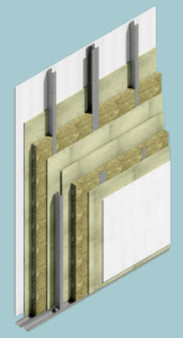
INCREASED HEALTHINESS OF THE BUILDING



Pre Fabricated System for Building

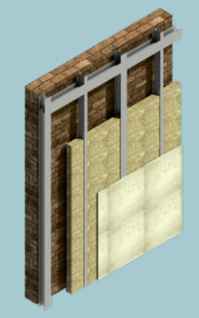
Our Pre-Assembled System revolutionizes modern construction by integrating advanced thermal insulation with prefabricated efficiency. Designed for rapid installation, these factory-assembled panels minimize on-site labor while ensuring superior energy performance. Engineered for seamless integration with electrical and plumbing systems, our pre-assembled panels offer unmatched convenience, sustainability, and cost-effectiveness.

- Thermal Insulation
- Acoustic Insulation
- Eco Bio Sustainability
- Speed of Realization
- From Project to Installation
- Without Scaffolding



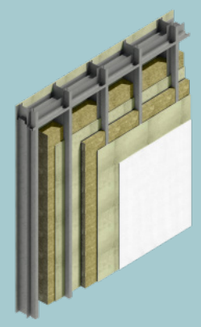
EXTERNAL WALLS

High-performance external wall panels provide top-tier insulation, lowering energy costs and maintaining indoor comfort. Designed for durability and weather resistance, they offer long-lasting structural and aesthetic benefits.



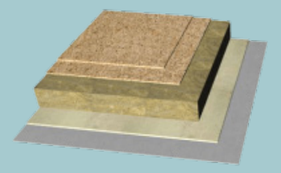
EXTERNAL FALSE WALLS

External False Walls improve insulation while enhancing building aesthetics. Lightweight yet durable, they minimize temperature impact and add a sleek look, making them ideal for both new builds and renovations.



INTERIOR WALLS

Thermally insulated interior walls optimize climate control and soundproofing, ensuring comfort. Lightweight and easy to install, they suit residential, commercial, and industrial projects without compromising sustainability.



STRUCTURAL PANELS

Structural Insulated Panels (SIPs) combine insulation and mechanical strength, reducing energy use. Suitable for walls, floors, and roofs, they enhance sustainability and lower heating and cooling expenses efficiently.

Ventilated Door & Window

The replacement of fixtures is a crucial intervention in the energy redevelopment of a building. By contributing significantly to the reduction of heat loss, new windows and doors not only improve living comfort but also reduce energy costs. In fact, doors, French doors and windows account for more than 30% of the total heat loss of homes, with transparent surfaces alone contributing to 25% of heat losses.

Well-insulated windows and doors are crucial for maintaining a stable indoor temperature, thus reducing the need for heating and cooling. This translates into energy savings and a decrease in CO2 emissions. Although the initial expense for new windows and doors may seem considerable, it involves significant savings in the long term thanks to the reduction of energy consumption and the improvement of the quality of the living environment.

Patent

Mono Block Design

Among the most advanced solutions to improve the energy efficiency of buildings, MIR Group's Monoblock represents an innovation of great importance. This prefabricated element, the subject of a patent that establishes its originality and innovation, offers superior performance and quick installation, integrating cutting-edge technology and design.

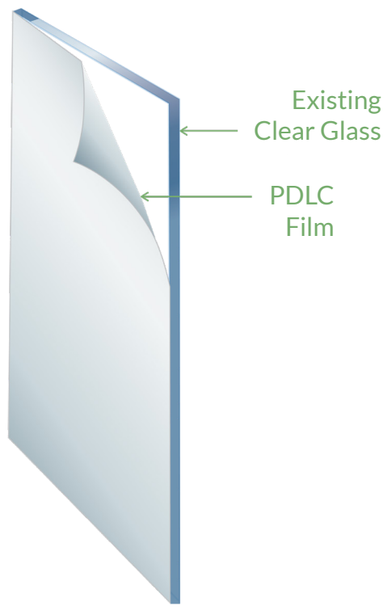
- Insulation of the Window Opening
- Ease of Anchoring
- Ease of Anchoring
- Versatility in Design
- Simplification of Operations

Retrofit Privacy Smart Films

Your existing glass can now be converted to aswitchable privacy glass with our switchable self adhesive films. These films have the same switchable properties as our laminated privacy glass and can be easily installed by our expert team.

Powered by PDLC technology, they transform your glass from the moment they are installed.

- Custom Display
- Smart Home Integration (Alexa, Google & More)
- Maximum Sizes 1.8 x 6 meter.
- Minimum Sizes 200mm x 200mm.
- Power Consumption 5Watts / m 2.
- 90% total light transmittence.
- 99.5% UV Block.
- Switch speed: 6ms.
- 3 Year Warranty.



Product Types

Adhesive smart films have a scratch resistant coating for durability, and can be installed onto almost any existing window, partition, or door, instantly transforming a space. Films are precisely installed to ensure all wires and busbars are hidden with frames or other trimming solutions, creating a uniform and finished appearance.

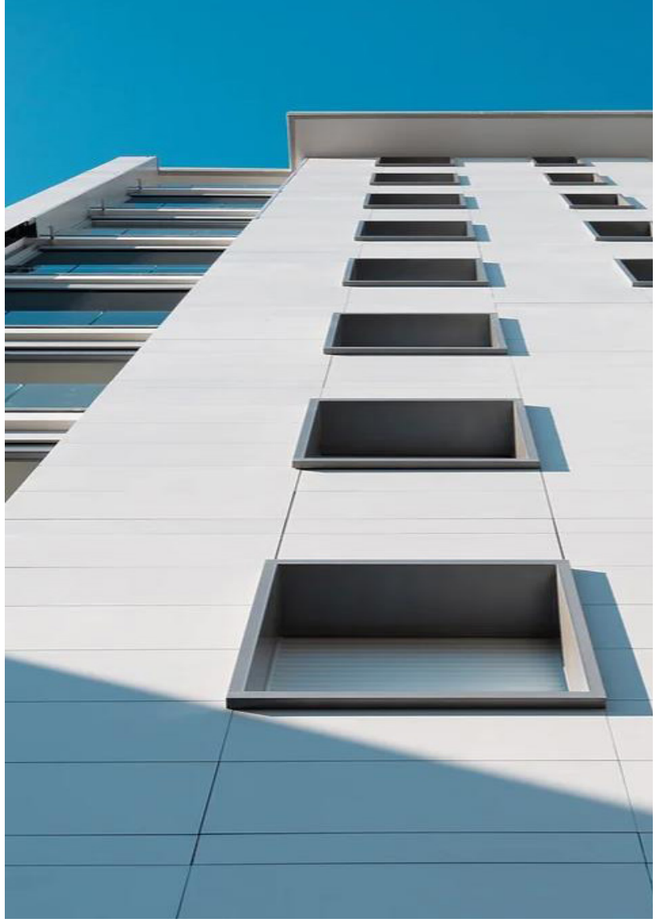
Advantages

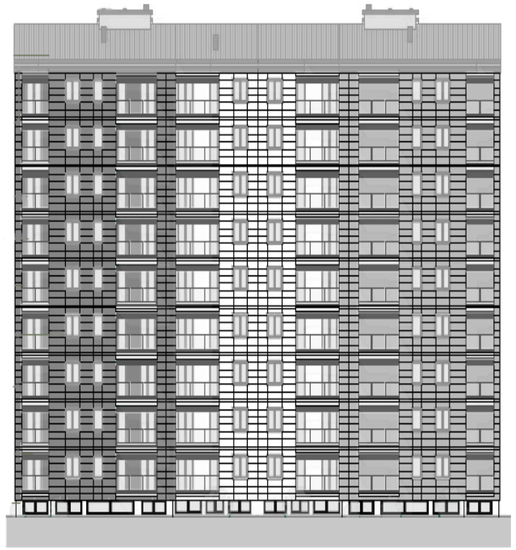
- Ultra Low Haze
- 18 million+ on/off cycles and 10,000 constant “on” hours with no need for a break
- Compatible for lamination with any type of glass, large panels and curved glass
- Segmenting and patterning allows privacy control in selected areas of glass
- Controller prevents burnout, and allows glass to be kept on 24/7
- 0-10v, DMX, or RS485 integration available for home automation systems

01

Primus Condominium

Residential





The Primus super condominium, located at Via Corso Roma 55 in Cologno Monzese (MI), is a large residential complex covering a total area of 4,620 sqm and comprising 180 housing units distributed across two distinct buildings.

The urban regeneration project, aimed at ensuring a sustainable approach, included the insulation of the entire complex through the implementation of an advanced ventilated facade, as well as the construction of a modern hybrid thermal power plant that integrates heat pumps and a boiler.

Energy Class D >>> A2

Efficiency 85%

Trees saved per year 1269

Project Cost 13,937,844.27 €

Architecture

Characterized by a series of projecting and recessed balconies that follow one another on each floor of the nine residential levels, the two buildings have undergone significant structural restoration. In particular, the projecting slabs have been upgraded with the installation of new glass parapets, which help lighten the overall appearance of the facade and enhance the brightness of the living spaces.

To optimize thermal comfort within the residential units, adjustable aluminum sunshades have been integrated. These play a crucial role in reducing the summer heat load while ensuring better regulation of natural light entering the interiors.

Energy

With the installation of the hybrid thermal power plant, an advanced heating and cooling system has been introduced, combining the efficiency of a traditional boiler with the eco-friendly and sustainable performance of heat pumps. This configuration optimizes energy usage, reducing environmental impact and promoting more efficient energy consumption

Thanks to the implementation of the new hybrid thermal plant and the adoption of heat pumps, the residential complex has undergone a significant improvement in energy efficiency, upgrading from energy class D to A2.

02

Ghedi

Residential

Energy Class D >>> A3

Efficiency 81%

Trees saved per year 986

Project Cost 9,196,158.12 €

Located at Via X Giornate 17-19 and 21-25-31 in Ghedi (BS), the La Nave and Gregotti condominiums represent an example of 20th-century social housing architecture, designed by architect Vittorio Gregotti. Inspired by the shape of a ship, the complex covers an area of 2,470 m^2 and includes a total of 33 residential units.

Architecture

Through the interventions carried out, a deliberate enhancement of the structural rhythm of the façade has been achieved. This result was obtained by installing specially designed plates, enabling the construction of a sophisticated curved ventilated façade integrated with the Griesser system. The visual enrichment created by this configuration accentuates the architectural features of the building, particularly along the curved end section.

Additionally, the window openings have undergone a targeted renovation through the installation of telescopic monoblocks, which incorporate an integrated shading system with adjustable louvers. This design choice aims to preserve the architectural brightness while ensuring optimal control of natural light within the interior spaces.

Energy

As part of the system renovation, a high-efficiency cascade air/water heat pump system was implemented, providing a thermal output of 247.8 kW. The pumps are arranged in series to ensure optimal thermal load management. This major upgrade led to the complete elimination of the previous gas supply, transforming the building into a fully electric system, further supported by the replacement of gas cooktops with new induction units.

This transition to a fully electric system aligns with European directives on energy efficiency and sustainability, as stipulated by EU Regulation 2018/844 on the energy performance of buildings.

Interventions

The renovation work includes the refurbishment of the roof, incorporating a new sloped screed and thermal insulation in rock wool to enhance energy efficiency. New aluminum-wood windows with triple glazing have been installed to improve insulation and reduce heat loss.

The building's exterior has been upgraded with a ventilated façade featuring porcelain stoneware panels, ensuring better thermal performance and aesthetic enhancement. Additionally, the project includes the installation of monocrystalline silicon photovoltaic modules in a square shape, with a total power output ranging from 7 kWp to 20 kWp per system to support sustainable energy generation. A thorough assessment of the plaster's stability has been conducted, with restoration work carried out where necessary to ensure the structural integrity of the façade.

Structure

For the seismic improvement project, targeted structural interventions were carried out to reinforce the building and enhance its earthquake resistance. The load-bearing structure was strengthened through the installation of new steel plates, increasing the building's load-bearing capacity.

Additionally, the perimeter walls underwent meticulous rehabilitation with the implementation of an L-profile and specially designed vertical supports. These innovative solutions have significantly improved the building's stability and structural safety, providing effective protection against seismic events.

RSA Projects

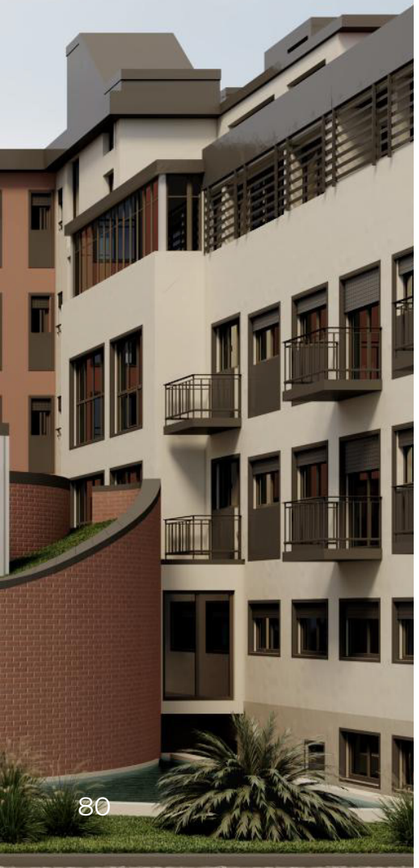
Objectives

IMPROVING ENERGY EFFICIENCY
Reducing energy consumption, enhancing thermal insulation, and minimizing CO_2 emissions to create sustainable and cost-effective solutions.

STRUCTURAL ADJUSTMENT
Adapting structures to meet modern safety standards, ensuring durability and long-term resilience.

LONG-TERM SUSTAINABILITY
Beyond energy efficiency, we emphasize a circular approach in material selection and technology integration, promoting environmental responsibility and sustainable growth.

Carisma
Via Gleno 49, Bergamo BG



Honegger
Via Crespi 10, Albino BG

Honegger
Via Crespi 9, Albino BG

Carisma Foundation

Carisma Foundation is a leading institution dedicated to providing high-quality healthcare and social assistance to the elderly and individuals in need. With a strong focus on dignity, well-being, and personalized care, the foundation offers a range of services that ensure a safe, comfortable, and enriching environment for its residents.

Seismic Improvement

- Anti-tipping protection of infill walls to enhance structural stability.
- Confinement of beam-column nodes to strengthen the overall framework.
- Installation of viscous heatsinks to absorb and dissipate seismic energy.
- Reinforcement of stairwells to ensure safety and structural integrity.

Energy Efficiency

- Insulation of both opaque and transparent building envelopes to optimize thermal performance.
- Redevelopment of the heating system for improved energy efficiency and reduced consumption.
- Installation of a photovoltaic system with storage batteries to promote renewable energy use and sustainability.

Notable Projects

Project: DOLOMITI
Via L. Vinci 5-7, Torre B.ne (BG)

Project: TOMASELLI
Via Belotti 6, Torre Boldone (BG)

Project: SAN PELLEGRINO
Via Cariani 8 , San Pellegrino (BG)

Project: CONCA FIORITA
Via Crescenzi 35 (BG)

Project: DONIZETTI III
Via Donizetti 22, Torre Boldone (BG)

Project: GAMMA
Via L. Vinci 20, Torre Boldone (BG)

Project: LAURA
Via L. Vinci 14, Torre Boldone (BG)

Project: PARINI 9
Via Parini 9, Corsico (MI)

Project: PRIMUS
Corso Roma 55, Cologno Monzese (MI)

Project: ARETHUSA
Viale Marconi 12, Dalmine (BG)

Project: I TIGLI
Via Zignoni 3, Bergamo

Project: 2 PINI
Via Sicilia 8, Bergamo

Project: CARLO PORTA
Via Carlo Porta 5, Trezzano Rosa (MI)

Project: MILANO 26
Via Milano 26, Treviglio (BG)

Project: SMERALDO
Via Ponchielli 34, Cassano d'Adda (MI)

Project: VENETO 9
Via Vittorio Veneto 9, Treviglio (BG)

Project: LE GENZIANE
Via Monte Grappa 7, Pregnana M.se (MI)

Project: CAZZANE
Via Cazzane 22, Germignaga (VA)

Project: CERASOLI 4
Via Cerasoli 4, Bergamo

Project: CERASOLI 6
Via Cerasoli 6, Bergamo

Project: LOMBARDIA
Via Lombardia 23, Pioltello (MI)

Project: NOVEGRO
Via Novegro 35, Segrate (MI)

Project: TRENTO 60
Via Trento 60, Treviglio (MI)

Project: VILL. FRANCOLINO
Caduti Nassiriya 1, Carpiano (MI)

Project: VILL. BIFAMILIARE
Via Canale 20, Roncola (BG)

Project: LAPACANO
Via Lapacano 8, Bergamo (BG)

Project: CASCINA DEI PRATI
Cascina dei Prati 21-23, Milano

Project: PARTIGIANI
Partigiani 8, Bergamo

Project: SOVICO BUOZZI
Via Buozzi 2-4-6, Sovico

Project: FAZENDA
Gabriele D'Annunzio 20, Pantigliate

Project: LORENTEGGIO
Via Lorenteggio 58, Milano

Project: MONTEROSA
Via Monte Rosa 19-21-23, Seveso

Project: PEROGEST
Via XXV Aprile 17, Pero (MI)

Project: BERTACCHI
Via Bertacchi 10, Monza

Project: AURORA
Via San Pio X 8, Pioltello (MI)

Project: LE TERRAZZE
Via Primo Maggio 13, Casirate d'Adda

Project: CARISMA ONLUS
Via Monte Gleno 49, Bergamo

Project: DON BELLANI ONLUS
Via Lipari 7, Monza

Project: CASA CAMBIAGHI ONLUS
Via Arnaldo da Brescia 10, Monza

Project: LUIGI BONI ONLUS
Via Cadorna 4, Suzzara (MN)

Project: RESTELLI ONLUS
Via Carroccio 1, Rho (MI)

Project: SCOLA ONLUS
Via Cavour 27, Besana (MB)

Project: DE CAPITANI ONLUS
Via Silvestri 2, Sovere (BG)

Project: CACCIAMATTA ONLUS
Via Mazzini 12, Villa D'Almè (BG)

Project: PELUCCA ONLUS
Via Campanella 8, Sesto S. Giovanni (MI)

Project: RESIDENZA IL PARCO ONLUS
Via Garibaldi 37, Carate Brianza (MB)

Project: CONDOMINIO LOCATELLI
Via Locatelli 57, Dalmine (BG)

Project: HONEGGER ONLUS
Via Cappuccini 10 Albino (BG)

Project: HONEGGER ONLUS
Via Crespi 9, Albino (BG)

Project: SCUOLA MATERNA CASBENO
Via Conciliazione 3, Varese

Project: SCUOLA INFANZIA BERETTA MOLLA
Via Virgilio 32, Varese

Project: CERASOLI 4
Via Cerasoli 4, Bergamo

Project: CERASOLI 6
Via Cerasoli 6, Bergamo

Project: LOMBARDIA
Via Lombardia 23, Pioltello (MI)

Project: NOVEGRO
Via Novegro 35, Segrate (MI)

Project: TRENTO 60
Via Trento 60, Treviglio (MI)

Project: VILL. FRANCOLINO
Caduti Nassiriya 1, Carpiano (MI)

Project: VILL. BIFAMILIARE
Via Canale 20, Roncola (BG)

Project: SPIRANELLA
Via Spiranella 13, Spirano (BG)

Project: MAZZARELLO
Via Mazzarello, Paullo (MI)

Project: GHEDI Via X
Giornate, Ghedi (BS)

Project: LORENTEGGIO
Via Lorenteggio 28, Milano (MI)

Project: BERTACCHI
Via Bertacchi 10, Monza (MB)

Project: PAPINIANO
Viale Papiniano, Milano (MI)

Project: PEROGEST
Via XXV Aprile 17, Pero (MI)

Project: MILANO 15
Via Milano 15, Paullo (MI)

Project: CALDARA 5
Via Caldara 5, Bergamo (BG)

Project: NUCLEO INDUSTRIALE
Pozzilli (IS)

Project: VILLA CORRIDONI
Via Corridoni 74, Bergamo (BG)

Project: DONEGANI
Via Donegani, Seveso (MB)

Project: MONTEROSA
Via Monterosa, Seveso (MB)

Project: PADOVA 5
Via Padova 5, Limbiate (MB)

Project: LOCATELLI 57
Via Locatelli 57, Dalmine (BG)

Project: FIVE LUX
JBR Marina, Dubai, UAE

Project: INVENTURE
Silicon Oasis, Dubai, UAE

Project: JETSET
Business Bay, Dubai, UAE

210€ Million

Total Project Cost

120

Energy Requalification Projects

Contact

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