



"We create green cities, merging clean energy generation with an urban landscape balanced between aesthetics and nature"



WHAT'S THE PROBLEM?

A climate and energy problem



Global Warming and Contamination:

Due to high CO2 emissions into the atmosphere (climate change), causing health problems for the population.



Lack of space in Urban areas for Energy Generation:

This generates a problem for the installation of renewable energies in the main sources of energy demand; the cities.



Antiquity and degradation of buildings in Urban Environments:

A serious lack of retrofit and energy efficiency actions in urban areas.



High Social and Environmental Impact of Utility Scale Power Plants:

In particular of large power generation plants.



High Electricity Prices:

Without implementing self-consumption models, electricity prices are getting higher and higher.

SOLVING THE PROBLEM

How can we solve it?



Emission Reduction:

Through the generation of energy for self-consumption in urban environments.



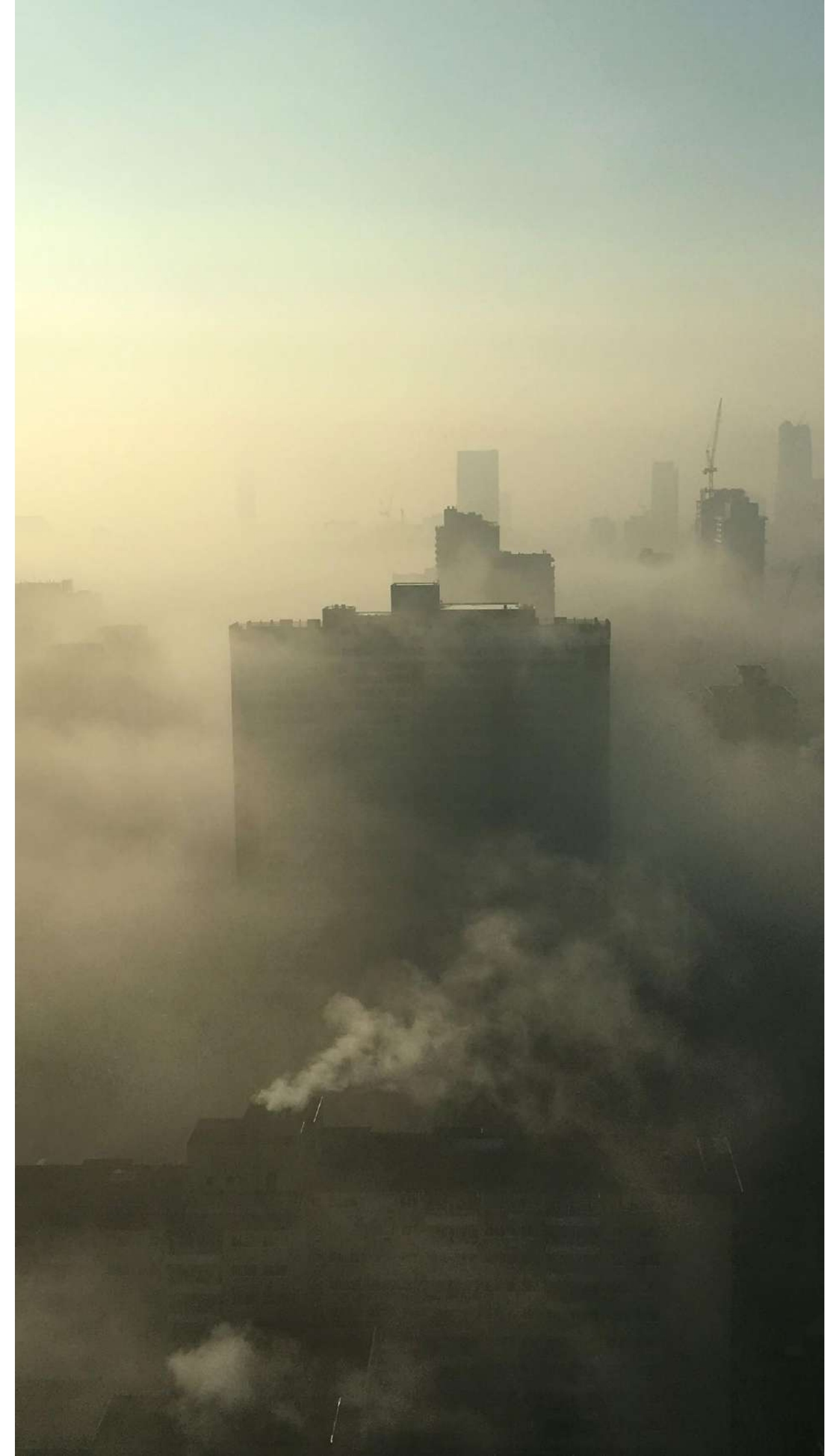
New Spaces:

Focused on the implementation of renewable energies in urban areas, facades, roofs or floors.



Innovation in Energy Production Materials, Methods and Designs:

Being able to meet the energy demand and reduce their prices.



WHAT DO WE THINK?

About Us

BIREN is an engineering and architecture company focus on the development of renewable energy projects integrated in buildings and urban environments.

We want to be the leading company in the sector in efficient and cutting-edge self- consumption.

We aim to promote energy management, aesthetics and energy efficiency in urban areas through customized designs using BIPV technology.



Workspace in La Nave de Madrid (Calle Cifuentes 5, 28021, Madrid)

SOCIAL ENGAGEMENT

Through the reduction of energy consumption and CO2 emissions, the recycling of materials, the generation of clean energy for self-consumption and the creation of employment.

CUSTOMIZED SOLUTIONS

BIPV technology adapts in shape, colour and technical requirements to the customer and the environment.

SUBSIDIZED PROJECTS

Our projects receive national and European subsidies, which reduces project costs and makes them attractive to our clients.

PROMOTING A NEW MARKET

We are pioneers in Spain in this type of solutions, with the aim of promoting and making an impact with this technology and our designs worldwide.

CREATING SMART CITIES

We create collective self-consumption networks, providing service to energy demands in urban environments, energy storage or integrating electric vehicle charging points into the network.

INNOVATION EXPERTS

We create new solutions adapted to the client's needs using available spaces in buildings or urban environments.

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MANY SOLUTIONS

A New Way of Understanding Cities

CUTTING-EDGE TECHNOLOGY

BIPV Technology

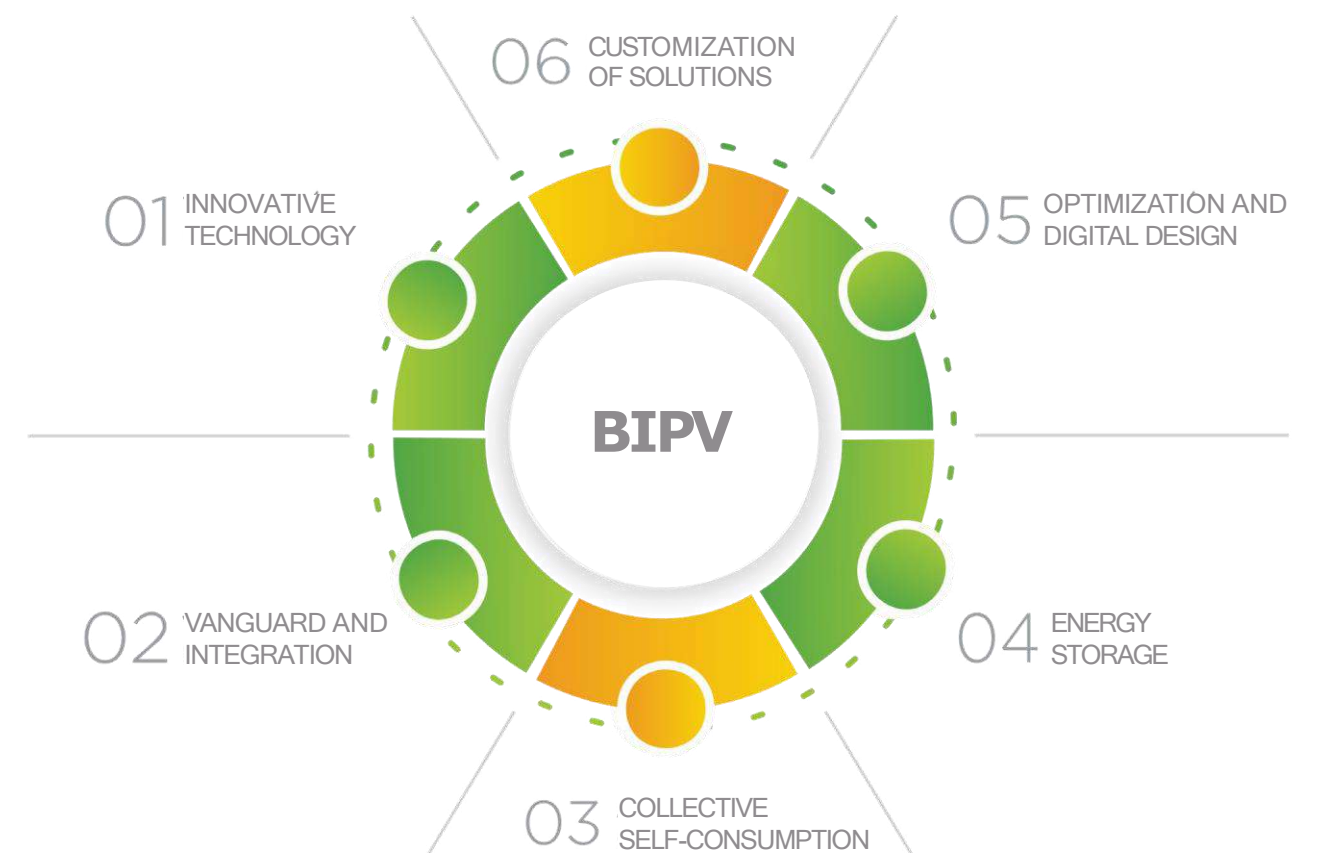
Building Integrated Photovoltaics (BIPV) is a multifunctional technology that integrates photovoltaic modules into the structure of a building, replacing conventional building materials.

It is optimally applied to new constructions as well as to existing buildings, adapting itself in a customized way to each case.

This technology provides the structure with better insulation, increased energy efficiency, generating clean renewable electricity, and renewing its aesthetics and integration into the urban environment in an avant-garde way.

IN THE FACE OF ENVIRONMENTAL CONFLICT

We Promote Solutions



OUR STRUCTURE

Business Model

We have a clear strategy of establishing strategic partnerships with key industry players across Europe.

Our goal is to show a new way of understanding the city through customized and avant-garde solutions, providing an energetic improvement in urban environments.

Some Clients:



Manufacturers / Collaborators

We work with the main European manufacturers, providing the necessary guarantees and innovation for our clients.



Research Centers / Universities



Strategic Partner:



We work with AGI Architects in the development of innovative solutions, a company with 20 years of experience.



WHAT DO WE OFFER OUR CLIENTS?

Main Services

We are a reference as engineering and architecture in the sector of renewable energy integration in urban environments.

100%

GREEN ENERGY

3,000t

IN CO2 SAVINGS

1M€

IN ELECTRICITY BILL SAVINGS

+50

PROJECTS



Development of Energy Communities

Energy communities can carry out multiple activities: produce, consume, store, share or sell energy. BIREN achieves this through the integration of self-consumption or energy storage systems, the improvement of energy efficiency or the development of sustainable mobility systems.



Self-consumption PV and BIPV

At BIREN we work on the development of individual or collective self-consumption solutions depending on the client's needs. To this end, cutting-edge BIPV or PV products on the market are incorporated, as well as energy or auxiliary storage systems that allow the installation to be optimized.



Technical, strategic and market consulting

BIREN offers technical and market consulting services to maximize the opportunities of the BIPV and energy sector in general. To do this, we are in contact with a large number of companies in the sector, research centers or associations that allow us to keep updated at all times.



BIPV Products

BIREN is a distributor of BIPV products from the main European manufacturers, available for all types of applications in urban environments. In addition, we work on new market solutions adapted to customer needs.

Building Solutions

Façade solutions:

The facades are a sign of identity and aesthetics in the building. An innovative, ecological and avant-garde design is important to transmit an idea of sustainability and concern for the environment. For this, the integration of BIPV technology is the best option.



Investycja prywatna / Private Investment | Szwajcaria / Switzerland



Investycja prywatna / Private Investment | Szwajcaria / Switzerland



Tecnoimpianti di Maragno / Verona, Włochy | Italy



Tecnoimpianti di Maragno / Verona, Włochy | Italy



Moon Office / Kraków | Cracow



Moon Office / Kraków | Cracow

Roofing solutions:

The roof of the building is the area with the greatest exposure to solar irradiation, allowing high levels of energy generation for self-consumption. The possibilities in the design allow to play with the lighting and aesthetics of the building.



The Hague Tower / Haga, Niderlandy | Netherlands



The Hague Tower / Haga, Niderlandy | Netherlands



Instytut Techniki Ciepłej / Thermal Engineering Institute | Warszawa / Warsaw



Instytut Techniki Ciepłej / Thermal Engineering Institute | Warszawa / Warsaw



Archiwum Państwowe / National Archives | Rzeszów



Archiwum Państwowe / National Archives | Rzeszów



Nationaleren 3 | Sztokholm, Szwecja / Sweden



Nationaleren 3 | Sztokholm, Szwecja / Sweden

External Solutions

EXTERNAL SOLUTIONS

Solutions for car parks / pergolas:

We propose solutions for outdoor roofs in car parks, buildings or public areas with the capacity to generate clean and renewable energy through BIPV technology, creating designs according to the needs of lighting and transparency. In addition, we combine this type of solutions with electric vehicle charging points or outdoor lighting.



Inwestycja prywatna / Private Investment | Rzeszów



Inwestycja prywatna / Private Investment | Rzeszów



Inwestycja prywatna / Private Investment | Rzeszów



Inwestycja prywatna / Private Investment | Rzeszów



ML System / Zaczernie



ML System / Zaczernie

EXTERNAL SOLUTIONS

Floor solutions:

Floors are generally underused areas for solar energy generation. The possibilities in colours and shapes make it possible to create tile designs or paths adapted to the design of the urban environment.



Archiwum Państwowe / National Archives | Rzeszów



Archiwum Państwowe / National Archives | Rzeszów

EXTERNAL SOLUTIONS

Urban road solutions:

Through BIPV technology we can create solutions adapted to roads, outdoor lighting or street furniture.



Włata przystankowa, lampa fotowoltaiczna Bright On / Bus Stop Shelter, PV Lamp Bright on



Włata przystankowa / Bus Stop Shelter



Wojewódzki Fundusz Ochrony Środowiska i Gospodarki Wodnej / Łódź
Biuro i Centrum Rozwoju i Wzrostu Gospodarki i Edukacji



ML System / Zaczernie

Our Products:

All BIPV products from BIREN have CE marking and all the necessary safety and quality norms and standards for their integration in buildings and urban environments.

BIPV Photovoltaic Modules

BIPV modules are the perfect product for glazed areas where aesthetics and transparency are to be combined with clean energy generation and the structural strength of glass.

BIPV Photovoltaic Roof Tiles

BIPV photovoltaic tiles are the perfect product for installation on pitched roofs to replace conventional flat or curved tiles.

BIPV Photovoltaic Floor and Wall Tiles

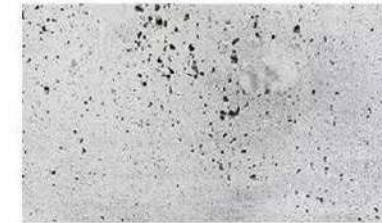
This material provides the aesthetic properties of glass with a wide variety of colours and mechanical strengths available depending on your application.

Ask for more information by contacting us

www.birenbipv.es

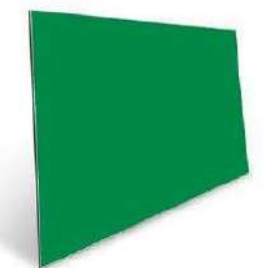
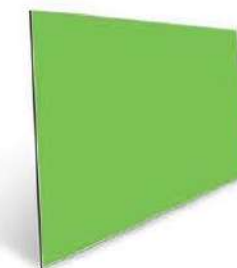
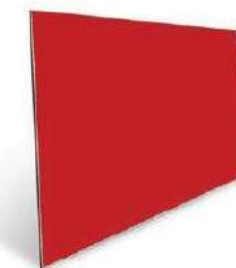
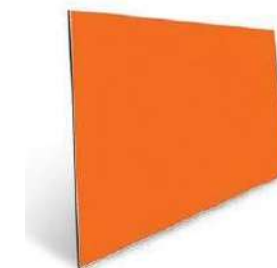
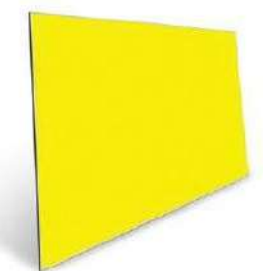
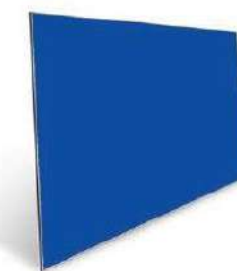
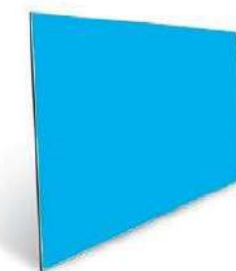
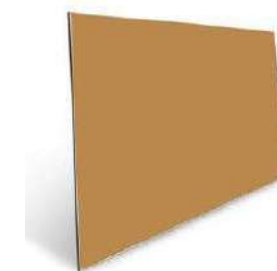
Possibilities of colouring by digital printing:

A digital print is added to the glass, creating any type of appearance or design. Depending on the type of printing, we obtain higher yields in the installation.



Possibilities of total uniform colouring:

A uniform coloration is provided to the photovoltaic glass. The lower the opacity of the color, the more power we achieve.



Some of BIREN's Projects



60 Neighbors



55 MWh/year of energy production, as well as improved energy efficiency thanks to better insulation.



9,400 €/year in electricity savings, which can be increased by aligning consumption and production.



250 tCO₂ of savings in atmospheric emissions.



10-11 years of amortization, which may vary depending on consumption conditions and the evolution of electricity prices.



20 Neighbors



53 MWh/year of energy production, as well as improved energy efficiency thanks to better insulation.



9,300 €/year in electricity savings, which can be increased by aligning consumption and production.



240 tCO₂ of savings in atmospheric emissions.



9-10 years of amortization, which may vary depending on consumption conditions and the evolution of electricity prices.



Contact

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www.birenbpv.es

A new way of
UNDERSTANDING THE CITY