



ISSOL

ACTIVE FACADES & ENVELOPES

PHOTOVOLTAICS FOR ARCHITECTURE

WHY BUILDINGS THAT GENERATE ELECTRICITY
COST LESS?

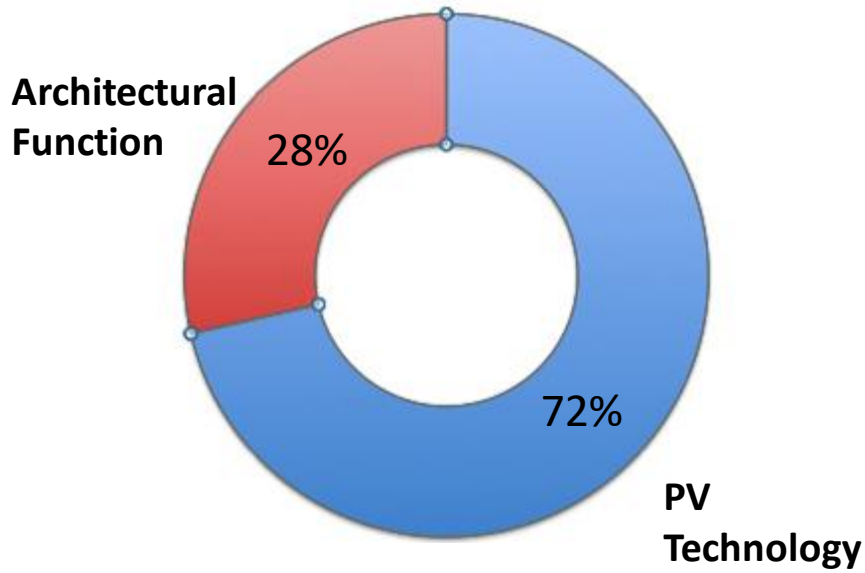
« PV SYSTEMS GENERATE
ELECTRICITY AT COSTS BELOW
UTILITY COSTS IN MOST
COUNTRIES »

A photograph of a modern, multi-story building with a curved facade. The building features a grid of windows and a metallic, perforated cladding. The interior lights are on, and the building is surrounded by trees. The text "« THIS DEVELOPMENT HAS CHANGED EVERY THING »" is overlaid in the center.

**« THIS DEVELOPMENT HAS
CHANGED EVERY THING »**

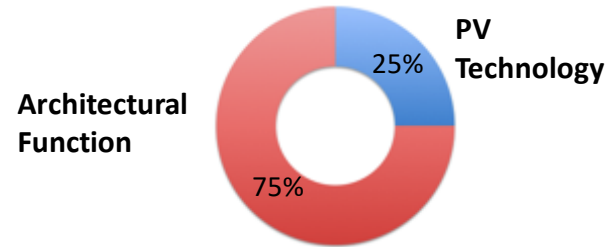
Cost of an Active Façade

2006



900-1400 \$/m²

2016



300-650 \$/m²

Architectural Functions:

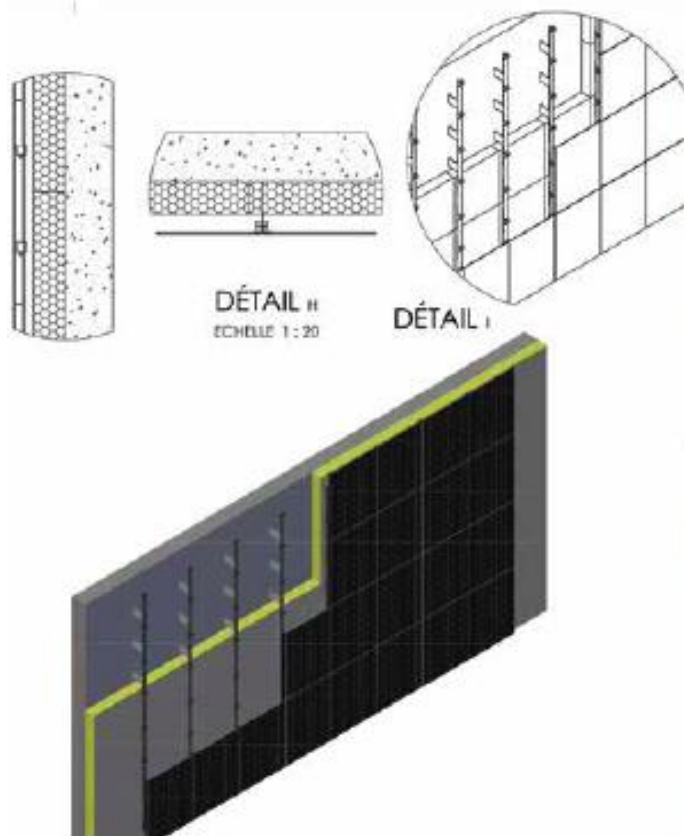
- Design: shape, dimension, curvature, color
- Isolation (GUI)
- Façade Engineering

Not talking about solar panels

- Only produce electricity
- Cannot be used for façades
- Are not aesthetic
- Do not comply with building code and fire norms



Active Building Materials play a double function :

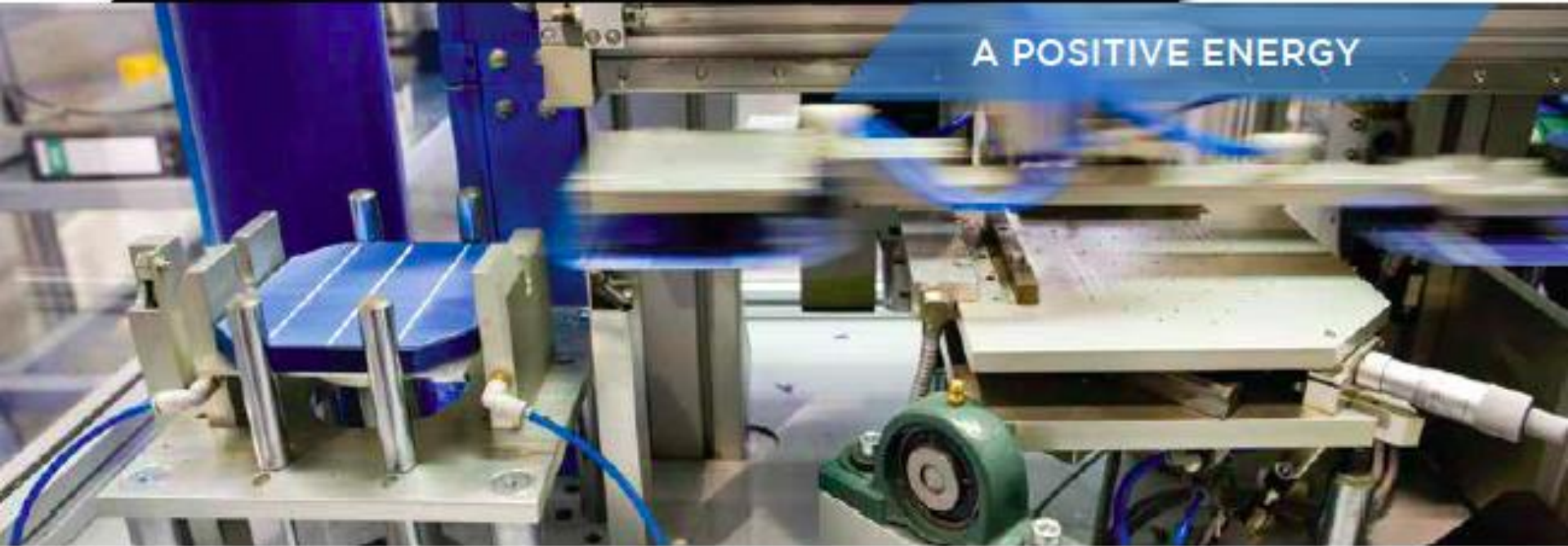


- 1st : Architectural | Mechanical, Aesthetic, Fire Safety
- 2nd : Electricity Production

PHOTOVOLTAIC GLAZING FOR THE BUILDING

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A POSITIVE ENERGY

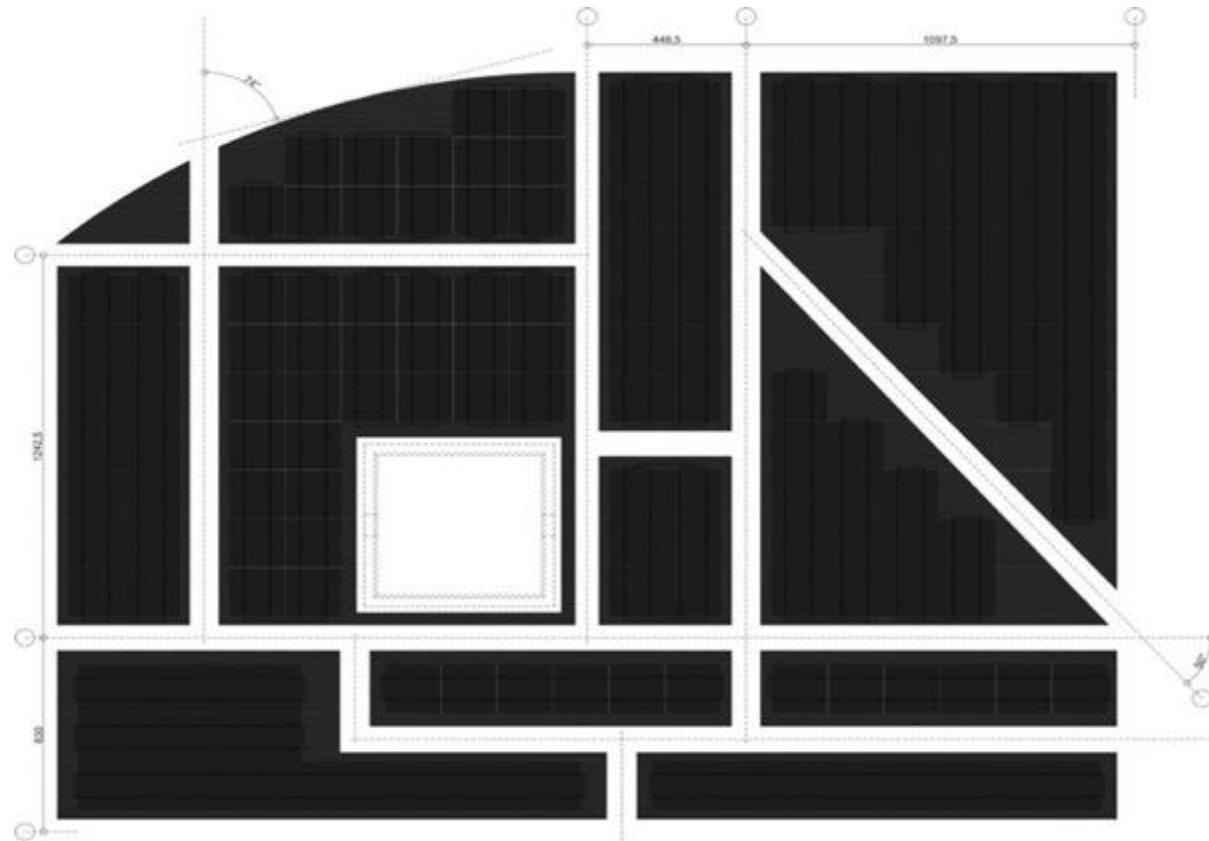


At ISSOL, we manufacture one single product:

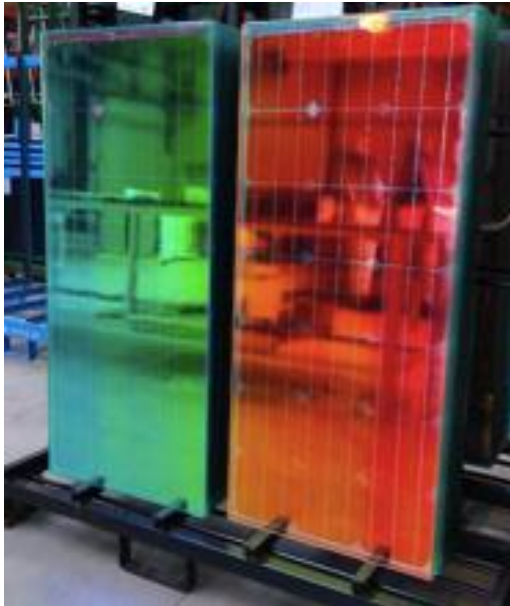
Laminated safety glass with solar cells inside

PHOTOVOLTAIC SAFETY GLASS

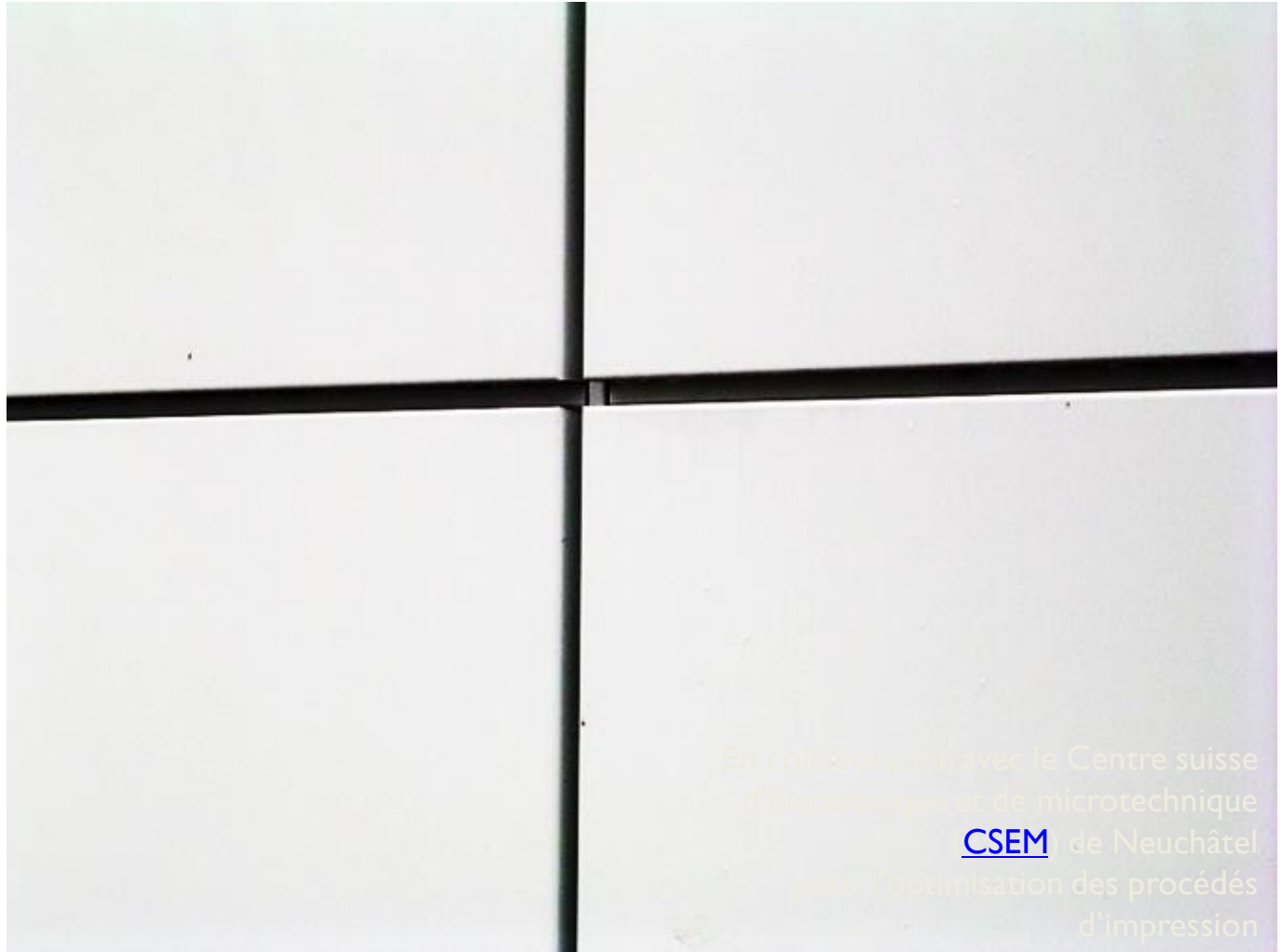
- Shape
- Size
- Thickness
- Patterns
- Screen Printing
- Insulation
- Curvature
- Substrate



Colors & Patterns



WHITE SOLAR: WAS IMPOSSIBLE



ISSOL's Roadmap



PROJECT BASED COMPANY

PREMIUM CLIENTELE AND HIGH GOODWILL



Worked from Oslo to Riyadh with most famous architects



WITH THE GREATEST ARCHITECTS

ISSOL



The new Palais de Justice of Paris (Courthouse) – Renzo Piano L'autre image, Labtop et Lansac, RPBW



WITH THE GREATEST
ARCHITECTS

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Cité Musicale de L'Île Seguin (Paris – 2016) ISSOL for TCE Solar and Bouygues Constructions - Architect : Shigeru Ban

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Cité Musicale de L'Île Seguin (Paris – 2016) ISSOL for TCE Solar and Bouygues Constructions - Architect : Shigeru Ban



OFFICE BUILDING

Union Eiendomsutvikling AS – OSLO (Norway) © Arch. Ingebjørg Lien, LOF Arkitekter as,

DICHORIC PHOTOVOLTAICS



MAKING THE AESTHETICAL CHOICE



ISSOL Solar Terra PV Tiles - Ecuwillens, Canton of Fribourg (CH) - August 2017

SEMI-TRANSPARENT PV GLAZING

Isolated Glass



Swimming Pool – Nivelles Belgium - Architectes ARCADUS

ISSOL

A NEW CONSTRUCTION STANDARD

« IT COSTS ABOUT 250 \$/M² TO
MAKE IT ACTIVE »

« AND GIVES ABOUT 40 \$/M² PER
YEAR OF REVENUES »

HIGH FINANCIAL ATTRACTIVENESS

Non Active

Material cost :

- \$ 300 / m²

= 250 \$ / m²

Lower investment

Value over 10 years :

- 300 \$ / m²

Value over 20 years :

- 300 \$ / m²

Active

Material cost :

- \$ 550 / m²

+ 40 \$ / m²

Revenues from power per year

Value over 10 years :

- 150 \$ / m²

Value over 20 years :

+ 250 \$ / m²

THE +250\$ CAN BE FINANCED OVER A 20 Y PERIOD



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