Solarization of the metropolis of St Etienne (42)

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Year of commitment : 2022
CO2 Impact : 9,900 tons

Green energies : Photovoltaic solar

20 000 000 €

Builder
GreenYellow

Manager / Dealer
GreenYellow et Reservoir Sun

GENERAL INFORMATION

Saint-Etienne (Loire) has for some time undertaken an **energy transition** process by investing heavily in solar energy. The city has invested in the installation of **solar panels on the roofs of 150 buildings** by 2021. Several buildings will thus be able to be supplied with electricity: the Geoffroy-Guichard stadium, the Museum of modern art, the Opera or even school and sports buildings ... In town, nearly 200,000 square meters of surfaces will be covered.

These 20 ha of solar panels will then enable Saint-Etienne Métropole to produce 33 gigawatt hours per year of electricity, ie the electricity consumption (excluding heating) of 12,000 homes. This approach by the city will thus prevent the release of 15,000 tonnes of CO2 into the atmosphere.

The **Saint-Etienne trams** will also be powered by solar energy. In fact, 5,000 photovoltaic panels are being installed on the roof of the Stas depot (Société des transports de l'Agglomération Stéphanoise) and will thus enable part of the Saint-Etienne tram network to be supplied.

The investment is carried by **GreenYellow** (a subsidiary of the Casino Group) **and its subsidiary Reservoir Sun.**

Progress Status

In progress

Data Reliability

Self-declared

Funding Type

Public/Private Partnership

Website Enterprise / Infrastructure

https://fr.greenyellow.com/fr/news/greenyellow-resolarise-toiture-mythique-stade-geoffroy-guichard
https://fr.greenyellow.com/fr/news/projet-solarisation-inedit-en-france-greenyellow-accompagne-saint-etienne-metropole-et-stas
https://www.groupe-casino.fr/greenyellow-accompagne-saint-etienne-metropole-dans-un-programme-de-solarisation-de-son-patrimoine-immobilier/

Sustainable Development

Attractiveness :

Some of these plants are intended for self-consumption: the electricity produced by these plants will be consumed directly on site. This call for tenders from Saint-Etienne Métropole also aims to meet its TEPOS (Positive Energy Territory) objectives.

Well Being :

Social Cohesion :

Preservation / Environmental Improvement :

This solarization project contributes on its own scale to the fight against global warming.

Responsible use of resources :

Carbon certification of photovoltaic panels as part of the CRE call for tenders.

Testimony / Feedback

“This ambitious heritage solarization project is part of the sustainable development policy pursued by SaintEtienne Métropole since 2014 and represents a major development in terms of energy transition. Through this project, unprecedented in France, our metropolis is once again demonstrating its ability to evolve, innovate and transform ”declared Gaël Perdriau, Mayor of Saint-Etienne and President of Saint-Etienne Métropole.

"Faithful to the requirements and expertise of our group, TRANSDEV - the leading European operator of zero emission mobility - STAS is proud to carry out this solarization project and to act in favor of the" Positive energy territory "policy led by Saint-Etienne Métropole ”specifies Ludovic Jourdain, Director of Stas.

“I am very proud to support Saint Etienne Métropole in this major project. For GreenYellow, this is the demonstration of our ability to be a real partner for communities and public authorities in their energy transition, with solarization of course but also energy efficiency. Saint-Etienne is a very special city for GreenYellow, cradle of the Casino group, and we are happy to continue this historic link by committing ourselves to its side ”, declared Otmane Hajji, President of GreenYellow.

Governance

Saint-Etienne Metropolis

Holder Type : Regional Authority

GreenYellow

Builder Type : Other

GreenYellow et Reservoir Sun

Manager / Dealer Type : Private

Local authorities provide areas for installing photovoltaic panels. From this provision of these areas, these same communities receive a rent.

Also, self-consumption infrastructures will be able to benefit from green energy at lower costs.

Finally, this allows them to be able to become shareholders, if they so wish, of the holding companies which will operate these photovoltaic plants and thus receive dividends.

Business Model :

GreenYellow and Reservoir Sun will lease these areas and then install, finance and operate these plants. This will allow them to derive a turnover from it by reselling the electricity produced.

Sustainable Solutions

Saint-Etienne trams powered by solar energy

Description :

The **Saint-Etienne trams** will also be powered by solar energy. In fact, 5,000 photovoltaic panels are being installed on the roof of the Stas depot (Société des transports de l'Agglomération Stéphanoise) and will thus enable part of the Saint-Etienne tram network to be supplied. The photovoltaic plant on the Stas site will inject directly into the supply network of the trams.

CO2 Impact : 20,00

- Urban project governance
- Citizen participation
- Renewable energies

https://www.saint-etienne-metropole.fr/sites/default/files/media/paragraphs/file/2019-07/cp_solarisationbatimentssem.pdf

Company (es) Website :

Photo credit

GreenYellow

Contest

Reasons for participating in the competition(s)

Les points forts de la démarche :

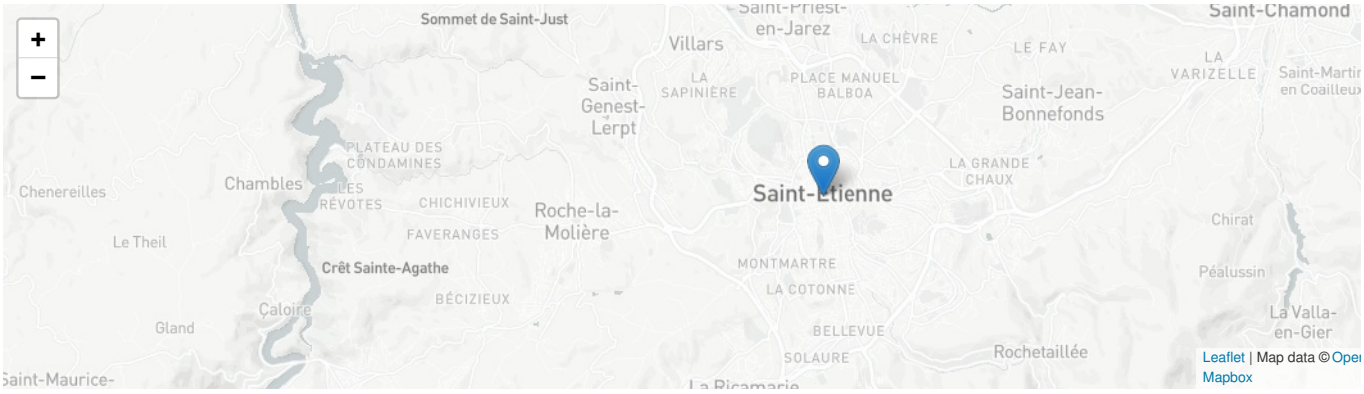
- Transition énergétique de Saint-Etienne Métropole (Loire) via l'installation de **panneaux solaires sur les toits de 150 bâtiments** d'ici à 2021. En ville, ce sont près de 200 000 mètres carrés de surface qui seront couverts.

Ces 20 ha de panneaux solaires vont ainsi permettre à Saint-Etienne Métropole la production de 33 gigawatts/heure par an d'électricité, soit la consommation électrique (hors chauffage) de 12 000 logements. Cela permettra ainsi d'éviter le rejet de 15 000 tonnes de CO2 dans l'atmosphère.

- **L'alimentation en énergie solaire d'une partie du réseau de tramways** de Saint-Etienne via l'installation de panneaux photovoltaïques sur la toiture du dépôt de la Stas (Société des transports de l'agglomération stéphanoise)

Building candidate in the category

Grand Prix Infrastructure Durable



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