Solar energy, the energy of the future

SOLEOL
ENERGY SYSTEMS

Vision

"Soleol SA aims to commercialise renewable energy in Switzerland and abroad, as well as making the acquisition of these systems accessible, both in terms of its price and its use."

SOLEOL SA

info@soleol.ch
www.soleol.ch

HEAD OFFICE

CH. DES MARAIS 1
CH-1470 ESTAVAYER-LE-LAC
TEL : 026 664 88 00

BRANCH OFFICE

RUE DE L'INDUSTRIE 2
CH-1630 BULLE
TEL : 026 912 05 31

September 2024

COMPANY PRESENTATION

Soleol SA is a company based in Estavayer-le-Lac, Fribourg, specialised in renewable energy, it is among the Swiss leaders in the construction and operation of solar power plants.

Founded in 2008 by Jean-Louis Guillet, Soleol came into existence after recognising the market potential and the future of the renewable energy in Switzerland and around the world. Our company caters to private clients and industrialists, agriculturalists, public authorities, as well as to all actors in the real state industry (architects, property management companies, general companies).

FOUNDED IN
2008

300
TURNOVER IN MILLIONS

102
EMPLOYÉS

28 ADMINISTRATIVE EMPLOYEES

12 ENGINEERS

52 ASSEMBLERS

10 APRENTICES / TRAINERS

COMPANY ACTIVITIES

3,950
PROJETS BETWEEN VILLAGES, AGRICULTURAL INDUSTRIES, PUBLIC AUTHORITIES

EQUIVALENT TO

485,000
SOLAR PANELS

OR

790,000
m² OF INSTALLED PANELS

OR

110
FOOTBALL FIELDS

OR

150
MW INSTALLED CAPACITY EQUIVALENT TO THE ENERGY CONSUMPTION OF

33,000
HOMES

Above and beyond its expertise and know-how, it is the trust of our clientele since the start that has been the driving force of our success. With more than 790,000 m² of photovoltaic panels installed (equivalent to the electricity consumed by 33,000 homes) we represent the ideal partner for you solar project.

We have realized over 3,950 projects, ranging from detached homes to Switzerland's largest photovoltaic power plant in Onnens covering a surface area greater than 50,500 m².

We offer you the posibility to have a cleanner, healthier and more equitable evironment, all while reducing your electricity bill. One of our company's strong points is to simplify the life of our clients, with "turnkey" projects. We deal with the study, consultation, grant application, contact with municipal and cantonal authorities and the installation of the project, from A to Z.

Our goal is to make solar installations accesible to all, using quality products and competitive prices.

Soleol, Swissolar member

Association of Solar Energy Professionals

Soleol has been a member of this association since 2011.

Swissolar defends the interests of its members and the public.

As members of the association, our bussines is subject to the collective labour agreement (LCA) for the Swiss branch of construction techniques.

SOLEOL
ENERGY SYSTEMS

OUR ASSOCIATED COMPANIES

Constrelec SA

Tableaux et armoires électriques

With 30 years of experience in the Swiss market, Constrelec SA specializes in the construction and manufacture of electrical boards.

Originally called Baumann Constrelec SA, the company was acquired in 2016 by the Greentech Holding group and saw its activities relocated to Estavayer-le-Lac.

Our services range from the construction of electrical boards, domotique, bus building KNX. We also carry out technical studies and expertise as well as the representation of the FAAC program. To this are added the control and motorization systems for gates, garage doors, parking and access management.

Our employees have more than 30 years of experience in these fields.

CLIENTS: Administrations, highways department, public services, hospitals, water treatment plants, food industries, chemical industries, machine tool industries, solar industries, craftsmen, electricians, companies, general businesses, property managements, private individuals.

FOUNDED IN
1989

MANUFACTURING OF SWITCHBOARDS AND CONTROL PANELS

TECHNICAL STUDIES AND INSTALLATION ASSESSMENTS

WITH MORE THAN
30
YEARS OF EXPERIENCE

CHEMIN DES MARAIS 1
1470 ESTAVAYER-LE-LAC

OUR ASSOCIATED COMPANIES

FOUNDED IN
1991

INTELLIGENT BUILDING MANAGEMENT

DOMOTICS

CENTRALISED TECHNICAL BUILDING MANAGEMENT

ELECTRICAL APPLICATIONS

AUTOMATIC DOORS

RESEARCH AND DEVELOPMENT

PROTOMAT

The PROTOMAT SA company is an associate of Soleol SA. It was originally PROTOMAT was part of a technical office in Fribourg which was mandated by the Fribourg Environment Office and water treatment plants to automatically collect water samples. Its name comes from a play on words in French (they took parts of "prélèvement automatique d'échantillons d'eau and came up with a homonyme - prélévement OTOMATique). The systems were developed and designed automatically to collect samples in rivers and sewage treatment plants in the Camton of Fribourg.

PROTOMAT became a joint-stock company independent of the technical office of Fribourg. For stratetigc reasons and due to the evolution of the market, Protomat turned its activities towards a different domain - that of automation.

The activities and services offered by PROTOMAT SA are of quality varied, and adapted to the needs of its clients, all under the sign of security, optimisation, energy saving, money saving and comfort.

Certified system integrators for SAIA PCD PLC

SOLEOL
ENERGY SYSTEMS

FOUNDED IN
2016

ON-GRID & OFF-GRID SYSTEMS

50%
ENERGY SAVINGS

info@soleol.lat
www.soleol.lat

SOLEOL
SUIZA
ENERGY SYSTEMS

SOLEOL SUIZA BUILDING IN PERU
Panels **36** – Area **66 m²** – Power **13 kW**

WHY THE PERUVIAN MARKET?

Because few companies offer solar installations. In fact, the sun and wind are optimal for the implementation of solar systems. In Peru. We have the commitment of the government. The pace of construction and purchasing power is increasing and we have privileged contacts there.

Project in Cusco
Panels **194** – Area **318 m²** – Power **54 kW**

Project in Trujillo
Panels **156** – Area **260 m²** – Power **50 kW**

Project in Huaraz
Panels **111** – Area **185 m²** – Power **34 kW**

Project in Trujillo
Panels **88** – Area **145 m²** – Power **24 kW**

Project in Trujillo
Panels **84** – Area **137 m²** – Power **23 kW**

Project in Trujillo
Panels **46** – Area **76 m²** – Power **12 kW**

SOLEOL
ENERGY SYSTEMS

Project in Trujillo
Panels **40** – Area **67 m²** – Power **12 kW**

Project in Trujillo
Panels **34** – Area **65 m²** – Power **11 kW**

Project in Trujillo
Panels **30** – Area **55 m²** – Power **11 kW**

Project in Cusco
Panels **30** – Area **55 m²** – Power **11 kW**

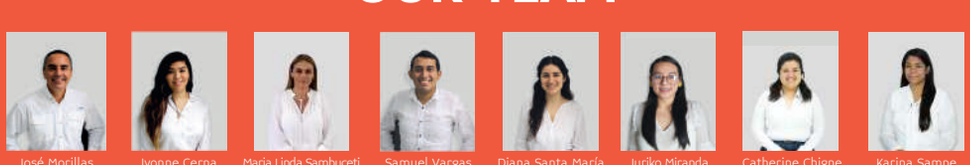
Project in Trujillo
Panels **32** – Area **49 m²** – Power **8 kW**

Project in Chiclayo
Panels **30** – Area **49 m²** – Power **8 kW**

Project in Trujillo
Panels **24** – Area **30 m²** – Power **7 kW**

Project in Trujillo
Panels **16** – Area **34 m²** – Power **7 kW**

OUR TEAM



José Morillas
Soleol Suiza Director

Ivonne Cerna
Administrative manager

María Linda Sambuceti
Controller

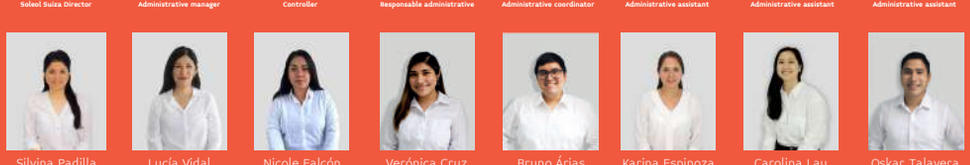
Samuel Vargas
Responsable administrative

Diana Santa María
Administrative coordinator

Juriko Miranda
Administrative assistant

Catherine Chigne
Administrative assistant

Karina Sampe
Administrative assistant



Silvina Padilla
Administrative assistant

Lucía Vidal
Administrative assistant

Nicole Falcón
Administrative assistant

Verónica Cruz
Sub-chief engineering Switzerland 1

Bruno Árias
Sub-chief engineering Switzerland 2

Karina Espinoza
Engineering coordinator

Carolina Lau
Engineering coordinator

Oskar Talavera
Engineering assistant

Francisco Arias
Engineering assistant

Yuusuke Regalado
Engineering assistant

Eduardo Cribilleros
Engineering assistant

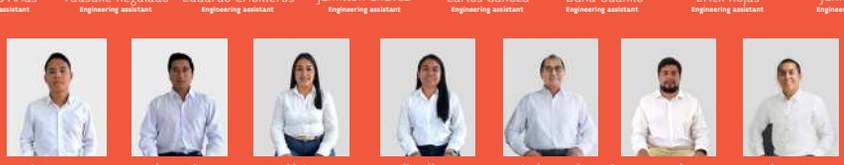
Jamilton Chávez
Engineering assistant

Carlos Ganoza
Engineering assistant

Dana Guanilo
Engineering assistant

Erick Rojas
Engineering assistant

Junior Vega
Engineering assistant



Rodrigo Ramos
Engineering assistant

Jhan Rojas
Engineering assistant

Ingrid Cooper
Commerciale executive

Elisa Illanes
Commerciale executive

Juan Carlos Verástegui
Commercial assistant

Roger López
Marketing manager

Diego Rey
Marketing assistant

31 EMPLOYEES

1 PERU DIRECTOR

10 ADMINISTRATIVES

15 ENGINEERS

3 COMMERCIAL

2 MARKETING

SOLEOL
ENERGY SYSTEMS

SOLAR CONTRACTING

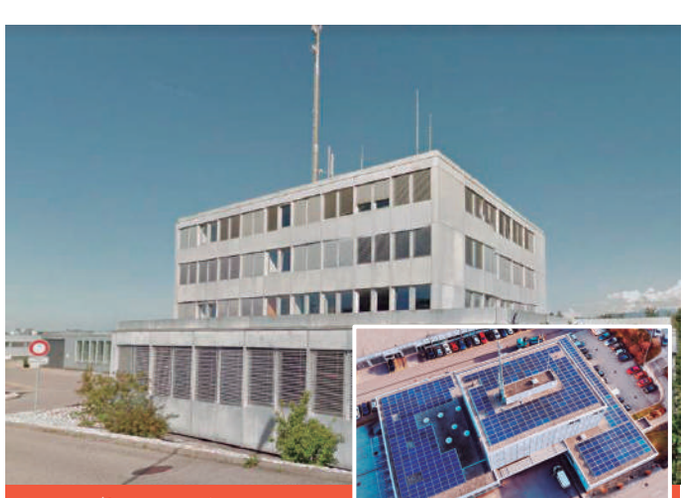
The State of Fribourg and Soleol collaborated together to equip the roof of five public buildings with photovoltaic panels.

Haute École de Gestion (HEG)
in Fribourg
Panels **550** – Surface **899.3m²** – Power **148.5kW**

Campus Schwarzsee/
Lac Noir
Panels **626** – Surface **1,023.4m²** – Power **169kW**

École de Culture Générale (ECG)
in Fribourg
Panels **704** – Surface **1,143m²** – Power **190.1kW**

Bâtiment SiTel
in Givisiez
Panels **402** – Surface **657m²** – Power **108.5kW**



Centre d'Intervention
de la Police (CIG) in Granges-Paccot
Panels **676** – Surface **1,105.4m²** – Power **182.5kW**

The canton will not have to invest in the slightest to realize these projects. Soleol will take care of the installation of solar power plants, of their management, as well as the maintenance. We shall then sell the green current produced at a very competititve price rate to the network supplier.
Today, about 120 buildings in the State of Fribourg are part of this model.

ÉTAT DE FRIBOURG
STATE OF FRIBOURG

CONTRACTING SOLAR – INDUSTRIES

Soleol SA also equips agricultural and industrial roofs with photovoltaic panels

Project in Onnens

Panels **30,352** – Surface **49,307 m²** – Power **8.3 MW**

Project in Payerne

Panels **5,469** – Surface **8,897 m²** – Power **1 MW**

Project in Granges-Veveyse

Panels **5,136** – Surface **9,637 m²** – Power **2'054 kW**

Project in Avenches

Panels **5,180** – Surface **8,300 m²** – Power **1,350 kW**

Project in Yverdon-Les-Bains

Panels **2,490** – Surface **4,051 m²** – Power **647 kW**

Project in Semsales

Panels **769** – Surface **1,306 m²** – Power **252 kW**

CONTRACTING SOLAR – INDUSTRIES

Project in Estavayer-Le-Lac

Panels **874** – Surface **1,422 m²** – Power **227 kW**

Project in Chevroux

Panels **607** – Surface **988 m²** – Power **182 kW**

CONTRACTING SOLAR – COMMUNITIES

Project in Fribourg

Panels **626** – Surface **1,023 m²** – Power **169 kW**

Project in La Chaux-de-Fonds

Panels **488** – Surface **799 m²** – Power **154 kW**

Project in La Chaux-de-Fonds

Panels **312** – Area **509 m²** – Power **98 kW**

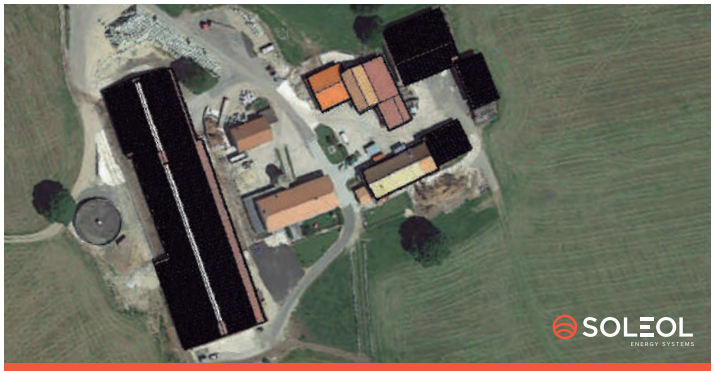
CONTRACTING SOLAR – AGRICULTURAL

Project in La Verrerie
Panels **3,742** – Area **6,075 m²** – Power **973 kW**

Project in Grandcour
Panels **2'841** – Area **4,650 m²** – Power **895 kW**

Project in Estavayer-Le-Lac
Panels **3,257** – Area **5,318 m²** – Power **847 kW**

Project in Vétroz
Panels **2,806** – Area **4,556 m²** – Power **744 kW**



Project in Les Verrières
Panels **2,276** – Area **3,725 m²** – Power **717 kW**

Project in Sancey
Panels **1,816** – Area **3,308 m²** – Power **672 kW**

Project in Les Verrières
Panels **2,013** – Area **3,313 m²** – Power **664 kW**

Project in Ponthaux
Panels **1,576** – Area **2,957 m²** – Power **630 kW**

SOLEOL
ENERGY SYSTEMS

CONTRACTING SOLAR – AGRICULTURAL

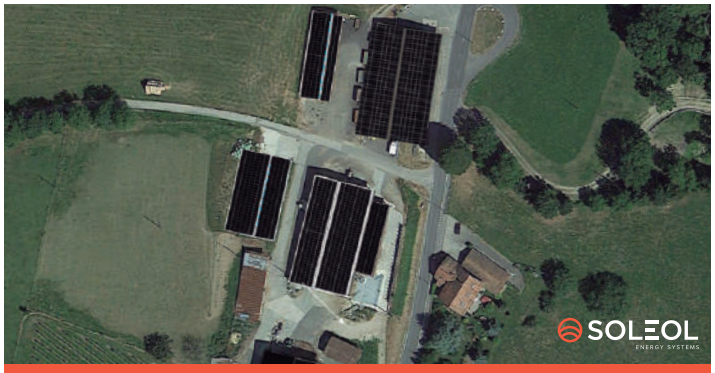
Project in Faoug
Panels **1'692** – Area **3'082 m²** – Power **626 kW**

Project in Cudrefin
Panels **1'906** – Area **3'184 m²** – Power **619 kW**

Project in Phontaux
Panels **1,481** – Area **2,779 m²** – Power **592 kW**

Project in Orzens
Panels **1,951** – Area **3,195 m²** – Power **585 kW**

Project in La Chaux
Panels **1,545** – Area **2,815 m²** – Power **564 kW**



Project in Clarmont
Panels **1,875** – Area **3,044 m²** – Power **563 kW**

Project in Les Montets
Panels **1,704** – Area **2,767 m²** – Power **528 kW**

Project in Semsales
Panels **1,926** – Area **3,134 m²** – Power **501 kW**

CONTRACTING SOLAR – AGRICULTURAL

Project in Frégiécourt
Panels **1'128** – Area **1,400 m²** – Power **451 kW**

Project in Le Pâquier – Montbarry
Panels **1'202** – Area **2,190 m²** – Power **445 kW**

Project in Châtel-St-Denis
Panels **1,066** – Area **2,001 m²** – Power **426 kW**

Project in La Roche
Panels **1,563** – Area **2,558 m²** – Power **422 kW**

Project in Fontaine
Panels **1,553** – Area **2,522 m²** – Power **411 kW**

Project in Bournens
Panels **1,351** – Area **2,198 m²** – Power **405 kW**

Project in St-Martin
Panels **961** – Area **1,803 m²** – Power **384 kW**

Project in Carrouge VD
Panels **948** – Area **1,779 m²** – Power **370 kW**

CONTRACTING SOLAR – AGRICULTURAL

Project in Fontainemelon
Panels **1,136** – Area **1,859 m²** – Power **358 kW**

Project in Rochefort
Panels **1,104** – Area **1,792 m²** – Power **342 kW**

Project in Torny-Le-Grand
Panels **1,070** – Area **1,752 m²** – Power **337 kW**

Project in Mannens
Panels **1,086** – Area **1,763 m²** – Power **331 kW**

Project in Savigny
Panels **790** – Area **1,482 m²** – Power **308 kW**

Project in La Brévine NE
Panels **788** – Area **1,479 m²** – Power **307 kW**

Project in Bossonnens
Panels **954** – Area **1,591 m²** – Power **301 kW**

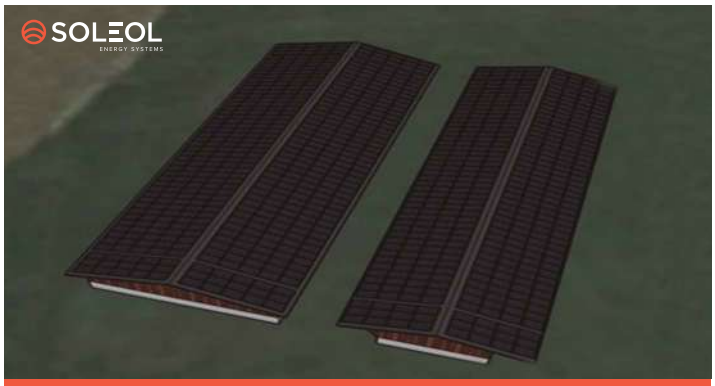
Project in Lussery-Villars
Panels **967** – Area **1,583 m²** – Power **300 kW**

CONTRACTING SOLAR – AGRICULTURAL

Project in Châtel-St-Denis
Panels **742** – Area **1,451 m²** – Power **304 kW**

Project in Payerne
Panels **1,165** – Area **1,864 m²** – Power **297 kW**

Project in Corpataux
Panels **1,008** – Area **1,637 m²** – Power **262 kW**



Project in Vulliens
Panels **846** – Area **1,385 m²** – Power **262 kW**

Project in Mézières
Panels **646** – Area **1,212 m²** – Power **252 kW**

Project in Mézières
Panels **558** – Area **1,090 m²** – Power **229 kW**

Project in Malleray
Panels **851** – Area **1,384 m²** – Power **225 kW**

Projet à Châtel-St-Denis
Panneaux **572** – Surface **1,042 m²** – Puissance **212 kW**

CONTRACTING SOLAR – AGRICULTURAL

Project in Ecoteaux

Panels **567** – Area **1,033 m²** – Power **207 kW**

Project in Lully

Panels **522** – Area **854 m²** – Power **164 kW**

Project in Massonens

Panels **384** – Area **720 m²** – Power **154 kW**

Project in Corcelles-près-Payerne

Panels **324** – Area **623 m²** – Power **125 kW**

SOLEOL
ENERGY SYSTEMS

PRESS

La Gruyère, le 30 juin 2018

ÉNERGIE SOLAIRE

Projet pilote pour équiper de cellules photovoltaïques les toitures des bâtiments cantonaux

L'Etat de Fribourg et l'entreprise Soleol SA, à Estavayer-le-Lac, collaborent pour équiper les toitures de cinq bâtiments de l'Etat de panneaux photovoltaïques. L'entreprise se chargera de l'installation et de l'exploitation. «L'Etat ne procédera à aucun investissement et consommera le courant produit sur les sites», indique le communiqué de la Direction de l'économie et de l'emploi (DEE). Soleol vendra ce courant au prix de revient, «lequel est inférieur au prix d'achat sur le réseau». Sur la base de cette expérience, le projet sera pérennisé et ouvert à tous les acteurs du marché qui pourront, dès 2019, offrir leurs services pour l'ensemble des toitures disponibles. Selon un inventaire effectué en 2010, quelque 120 bâtiments seraient concernés, avec un potentiel de 25 000 m² de cellules photovoltaïques.

La Liberté, le 2 juillet 2018

L'Etat va carburer au solaire

Energie » Les toits de cinq bâtiments appartenant à l'Etat de Fribourg seront équipés de panneaux solaires dans le cadre d'un projet-pilote, mené en collaboration avec l'entreprise Soleol SA.

Selon un rapport de 2010, les toitures des bâtiments de l'Etat de Fribourg offrent environ 25 000 m² de surface potentiellement intéressante pour la valorisation du solaire photovoltaïque.

Les édifices retenus pour le projet-pilote sont la Haute Ecole de gestion (HEG) de Fribourg, le Campus Schwarzsee/Lac-Noir, l'Ecole de culture générale (ECG) de Fribourg, le Centre d'intervention de la police (CIG) à Granges-Paccot et le bâtiment du Service de l'informatique et des télécommunications (SITel) à Givisiez.

En tout, plus de 850 gigawattheures d'énergie verte y seront produits, ce qui correspond à la consommation d'électricité de 240 ménages, précise la Direction fribourgeoise de l'économie et de l'emploi (DEE) dans un communiqué.

850 gigawattheures

L'énergie produite sur les toits des cinq bâtiments publics

L'entreprise Soleol s'est annoncée spontanément auprès de l'Etat. Sa contribution comprendra l'installation des centrales solaires, leur gestion ainsi que la maintenance y relative durant toute la durée du contrat, soit 25 ans. Elle vendra le courant vert à un tarif très compétitif, soit inférieur au tarif moyen du distributeur, note la DEE. A l'échéance du contrat, l'Etat deviendra propriétaire des installations ou pourra négocier de nouvelles conditions liées à leur exploitation.

Sur la base de l'expérience acquise, le projet sera pérennisé et ouvert à tous les acteurs du marché qui pourront, dès 2019, offrir leurs services pour l'ensemble des toitures disponibles. Le gouvernement entend ainsi augmenter sa consommation d'énergie renouvelable et indigène.

Près de 120 bâtiments publics sont potentiellement concernés, mais sur une échelle de temps variée: la technologie photovoltaïque ne peut être développée que dans le cadre de nouvelles constructions, de rénovations complètes de toiture ou lorsqu'il peut être démontré que la durée de vie de la toiture à couvrir est supérieure à 20 ans. »

MARC-ROLAND ZOELLIG

Agefi, le 2 juillet 2018

'AGEFI

Edition du Lundi 2 juillet 2018

Fribourg: panneaux photovoltaïques sur cinq bâtiments

LUNDI, 02.07.2018

L'Etat de Fribourg et l'entreprise Soleol d'Estavayer-le-Lac (FR) collaborent dans un projet pilote pour équiper la toiture de cinq bâtiments publics avec des panneaux photovoltaïques. Le canton ne devra procéder à aucun investissement pour réaliser ce projet. L'entreprise Soleol va s'occuper de l'installation des centrales solaires, de leur gestion ainsi que de la maintenance. Elle vendra ensuite le courant vert ainsi produit à un tarif «très compétitif». – (ats)

CONTRACTING SERVICE

Reduction in your electricity bill thanks to photovoltaic solar power production, without any investments nor any costs at your expense.

In view of the Federal Council's decision to get out of nuclear power and the increase in energy costs, an increase in the price of electricity in the next few years will be inevitable. By being a player in the energy transition, you will be able to generate significant savings on your electricity bill.

You are an industrialist and wish to benefit from the advantages of solar energy? We have several solutions that we can propose to you, according to your needs:

- We install free of charge a complete photovoltaic system on your roofs
- We supply you the energy produced at a lower price than that of your distributor of electricity
- You can convey an ecological image of your company
- And other advantages

Contact us for further information
at **026 664 88 00**
or by email at : **info@soleol.ch**

INVESTMENT COMPANIES

OUR HOUSING MODELS

- SINGLE PREMIUM
- ROOF RENOVATION
- ROOF LEASING m²

OUR FINANCING MODELS

- SALE OF ELECTRICITY TO THE GRID OR MUNICIPALITY
- VAUD CPP
- SWISSGRID CPP

EXAMPLES OF INVESTMENT MODELS

TPF IN ESTAVAYER-LE-LAC
Power: 227 kW - Panels: 873 - Surface: 1,420 m²

SANPAC IN YVERDON-LES-BAINS
Power: 647 kW - Modules : 2,490 - Surface: 4,043 m²

SOLEOL
ENERGY SYSTEMS

SOLUTIONS FOR ANY TYPE OF BUILDING

HOUSES - PRIVATE

AGRICULTURAL

PUBLIC

INDUSTRIES

	Private	Agricultural	Public	Industries
Self-consumption	✓	✓	✓	✓
Excess for resale	✓	✓	✓	✓
more reliance on invoices	✓			✓
Life cycle + 30 years	✓	✓	✓	✓
Added value	✓	✓	✓	✓
Ecological	✓	✓	✓	✓
Return on investment in 10 years	✓	ROI 8-12 years		ROI 8-12 years
Federal grants	✓	< 30 kW		
Sale to Swissgrid - 20 years		✓	✓	✓
Sale on a solar subsidy		✓	✓	✓
Roof rental		✓	✓	✓
Image for your city			✓	
Community solar			✓	
Image — Marketing				✓

SOLEOL
ENERGY SYSTEMS

COMPANY TRAINING

We want to guarantee the future of the profession and prepare for new developments. For this we focus on forming the next generation of quality workers.

OUR OBJECTIVES:

- Maintain the offer of training as a contribution to the sustainability of our professionals.
- Provide them with, quality and safe training.
- Guarantee adequate and professional supervision of apprentices.

TRAINER:

APRENTICES / STAGIAIRES

Schadia
Commercial apprentice
3ème année

Lucie
Commercial apprentice
2ère année

Oriane
Commercial apprentice
1ère année

David
Installer Solar Apprentice
1ère année

Yaniss
Installer Solar Apprentice
1ère année

Jan
Installer Solar Apprentice
1ère année

Loan
Installer Solar Apprentice
1ère année

Experiencie pallet:
Working in different departments, our employees in training gain an added value of experiences and widen their skills.

We welcome students for different Bachelor and Master internships.

heig-vd HAUTE ÉCOLE D'INGÉNIERIE ET DE GESTION DU CANTON DE VAUD www.heig-vd.ch

Hes·so Haute Ecole Spécialisée de Suisse occidentale

EPFL ÉCOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE

GYMNASE INTERCANTONAL DE LA BROYE GYB

Unil UNIL | Université de Lausanne

Orif Intégration et formation professionnelle

CO de la Broye

UNIVERSITÉ DE GENÈVE

cpnv Centre professionnel du Nord vaudois

ipt

Fondation Coup d'Pouce

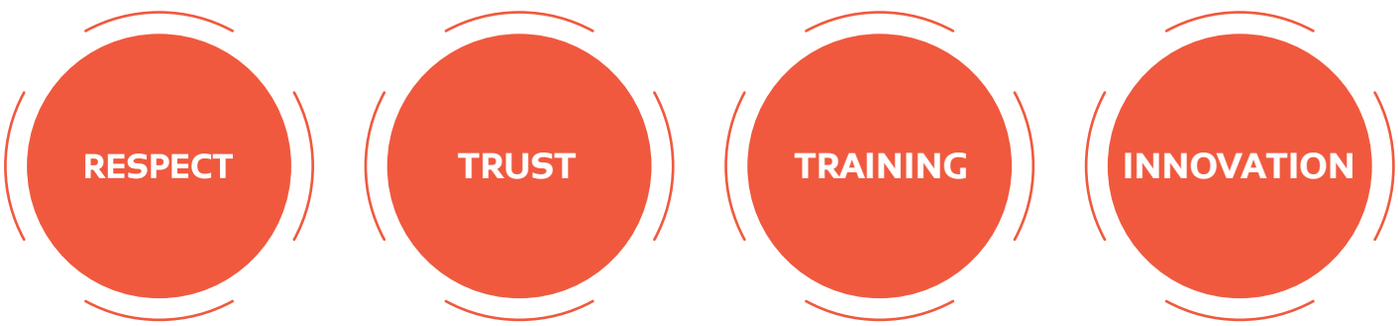
casexpert.ch Particuliers & Entreprises

FONDATION ST-LOUIS

MISSION STATEMENT

Soleol's mission statement establishes the core values and mission of all its employees.

We are a Swiss company specialised in renewable energy, addressing the entire population, from private individuals to large companies and since its creation in 2008, has successfully positioned itself in the Swiss market.



We act with honesty and a keen sense of responsability

We are a modern and forward-looking company.

We are effective, determined, understanding and responsive.

We want to secure the profession's future and prepare for new developments. We focus on the new generation of quality workers. We are a training company.

We provide staff with the necessary resources and training.

Support for various organizations and NGOs is part of our values.

We care about the environment, and as such, we want to make these installations accessible to all without neglecting quality.

We assure that the objectives of the project are in line with the needs of the client.

We work with the best and we privilege quality and proximity.

Staff voluntarily share knowledge and experience gained.

Each employee is called to reflect on and act correctly in their professional activity and contribute to the sucess of the company.

Our company's driving force are our satisfied customers and it is for them and thanks to them that we exist and that we listen to them.

SOLAR PROJECT IN ONNENS

THE BIGGEST SOLAR PLANT IN SWITZERLAND

In this small village on the shores of Neuchatel Lake, the largest photovoltaic power plant in Switzerland was put into service in 2016. The surface area of the installation corresponds to approximately 7 football fields. Solar panels were installed on the roofs of the Procimmo buildings, partially leased by Philip Morris.

8.3
MW OF POWER

31,000
PANELS

50,500
m^2 OF SURFACE AREA

PROVIDES ELECTRICITY YEARLY FOR APPROXIMATELY

2,300
HOMES

SOLEOL
ENERGY SYSTEMS

SOLAR PROJECT IN PAYERNE

LE GYMNASE INTERCANTONAL DE LA BROYE (GYB)

Solar installation carried out in the form of contracting in August 2021 on the roofs of this school building located in the town of Payerne. The Intercantonal Gymnase of La Broye welcomes students from the canton of Friborg and Vaud living in Broye-Vully.

587
kW OF POWER

1,508
PANELS

2,899
m² OF SURFACE

SOLEOL
ENERGY SYSTEMS

SOLAR PROJECT IN GARAGES

GARAGE AUTONOVA SA AND PNEU SERVICE MEUWLY SA

497
kW OF POWER

1,483
PANELS

2,502
m² OF SURFACE

SOLEOL
ENERGY SYSTEMS

OUR PROJECTS

228
kW POWER

876
PANELS

1,400
m²

AMARANTE EN ESTAVAYER-LE-LAC

THE LARGEST SOLAR POWER PLANT IN THE FRIBORG CANTON

331
kW POWER

1,273
PANELS

2,066
m²

MON-REPOS PUBLIC SWIMMING POOL IN LAUSANNE

793
kW POWER

2,991
PANELS

4,890
m²

BREITLING IN GRENCHEN

BASEMENT STORAGE HALL

SOLEOL
ENERGY SYSTEMS

OUR PROJECTS

MIGROS IN MARIN CENTER

1,000
kW POWER

4,000
PANELS

6,410
m²

GRISONI ZAUGG IN BULLE

930
kW POWER

3,442
PANELS

5,640
m²

MOULIN IN PAYERNE

30
kW POWER

110
PANELS

179
m²

OUR PROJECTS

APPARTMENT BUILDING IN MARLY

24.7
kW POWER

95
PANELS

155
m²

OCHETTE COLLEGE IN MOUDON

170.7
kW POWER

644
PANELS

1,045.2
m²

SPORTS CENTRE IN HAUTERIVE

16.2
kW POWER

60
PANELS

98
m²

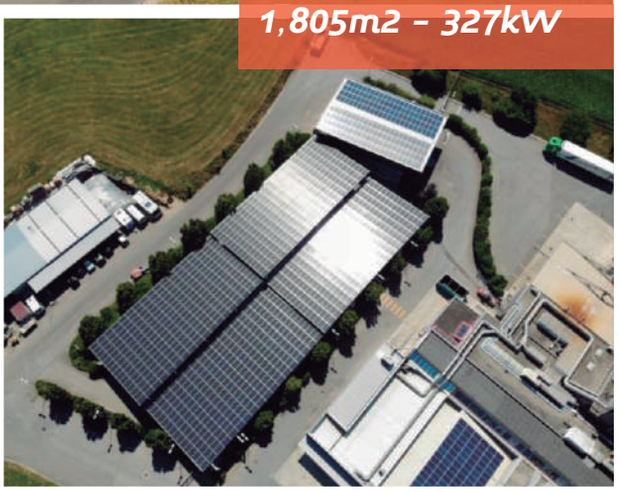
CARPORT SOLAR

Main Square in Monthey VS

2,500 m² - 415 kW

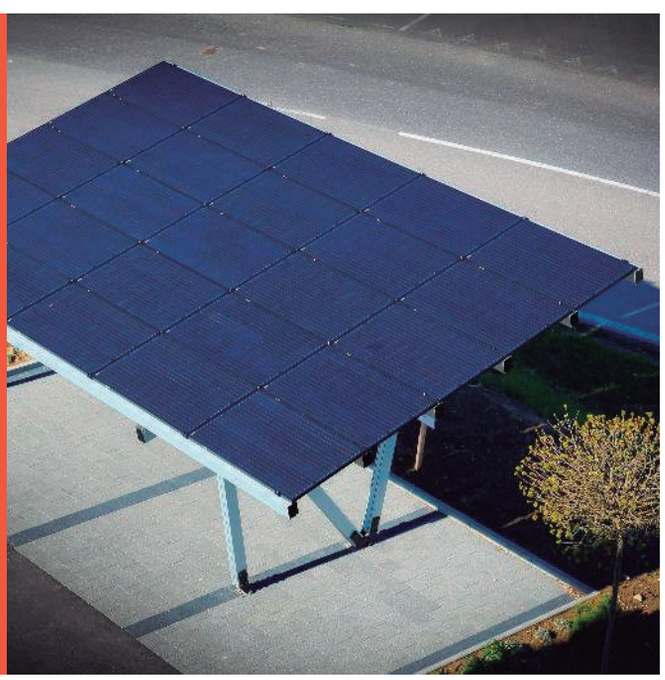
Marmy Meat SA
in Estavayer-le-Lac

1,805m2 - 327kW



ADVANTAGES OF THE SOLAR CARPORT:

- Solar energy production
- Self-consumption of energy produced
- Energy saving
- Recharge of electric vehicles
- Aesthetic and innovative
- Vehicles in the shade during the summer and protected from cold and snow in winter
- Contribution to sustainable development
- Valuation of your property
- No maintenance required



SOLEOL
ENERGY SYSTEMS

DISCOVER OUR BUILDING

ESTAVAYER-LE-LAC, SWITZERLAND

Here is our new and revolutionary building. We took into account the latest technologies in terms of efficiency for production and energy saving.

This building, with a solar elevator, a wind turbine and photovoltaic panels on the facade is a model of energy and enviromental construction. The only one currently in Switzerland as it produces more energy than what it consumes.

Our Soleol building was designed to demonstrate in practice the different technologies and possibilities of saving and producing energy at the same time. This building is unique in Switzerland. The latest technologies in solar energy and energy management are on display as we grouped different production and energy saving possibilities all in one place. We want to demonstrate that renewable energy is no more expensive than conventional energy when we integrate it into the design of a building. Quite on the contrary, a return on investment is recovered in the medium term.
It's a unique energy solution in Switzerland bringing together more than twenty different technologies on a single site. We participate in the "Swiss Solar Prize" and the "Innovation Prize of Firbourg" in the category of positive energy buildings (15x more energy produced than consumed). Our building is a life-sized showroom that combines modernity and technology and is open to the public. We welcome associations, committees, municipalities, corporate events, etc., putting at your disposal the conference room. We ask of you the opportunity to introduce our company followed by a tour of the building, and we offer a snack to conclude your visit.

1,200
m² ROOF
SURFACE AREA

25°
ANGLE TO ENSURE OPTIMUM
PERFORMANCE

682
PANELS
270W

184
kW RATED POWER

50
HOMES

PHOTOVOLTAIC PANELS

They produce electricity with which we cover 85% of our consumption. Our building mainly uses its own production of solar energy which represents approximately 6% of the total electricity production.

260W
OF MONOCRYSTALINE
PANELS

SOLAR PANELS ON THE FACADE

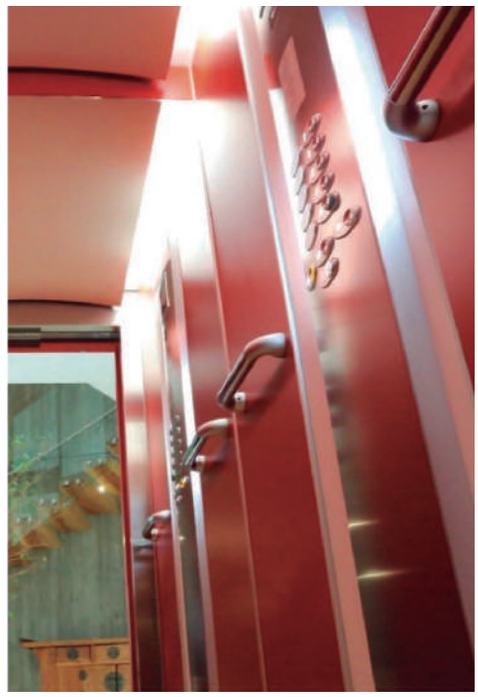
They are installed all around the front of our administrative building. As of 2017, they will be covered with a film, developed by CSEM, which will give them a red color and integrate seamlessly with the building's colour scheme. They work all day because the building is round. Each panel operates independently of each other with micro-inverters placed on the back of each one.

500W
CONSUMPTION LESS THAN A MICROWAVE

5
PANELS OF
200W
EACH

SOLAR LIFT

In collaboration with the Otis company, we have developed this solar elevator. The lift is connected to a battery that is recharged throught the mains of the energy recovered during braking when it descends (kinetic energy).
Complementarily, we coupled the system with a photovoltaic installation (5 panels of 200W each) wich supplies the lift through stored energy, thus increasing the autonomy to 100%. Thanks to solar energy, the lift will even work when there is a power outage.



9M
HEIGHT

5
kW OF POWER

HELICAL WIND TURBINE

This wind turbine has been installed in 2017. It allow us to compensate the energy used by the computer equipment and servers of the building, especially at night.

150
m² PANELS

30 / 25
TRANSPARENT / STANDARD

3,8 / 6,4
kW POWER

SOLAR CARPORT

The photovoltaic panels serve to provide shelter to our vehicles and at the same time provides a parking space offering the possibility to generate green electricity, protecting the environment.

21
PANELS

127W
INSTALLED

2.7
kW DE PUISSANCE

TRANSPARENT PANELS

These panels are designed to be used on balconies, balustrades, carports. They have the peculiarity of letting light pass, while generatinh electricity. Each panel works independently of the other with its own micro-inverter.

6
INSTALLED PANELS
WITH A POWER OF
200W

1.2
kW OF POWER

HYBRID PANELS

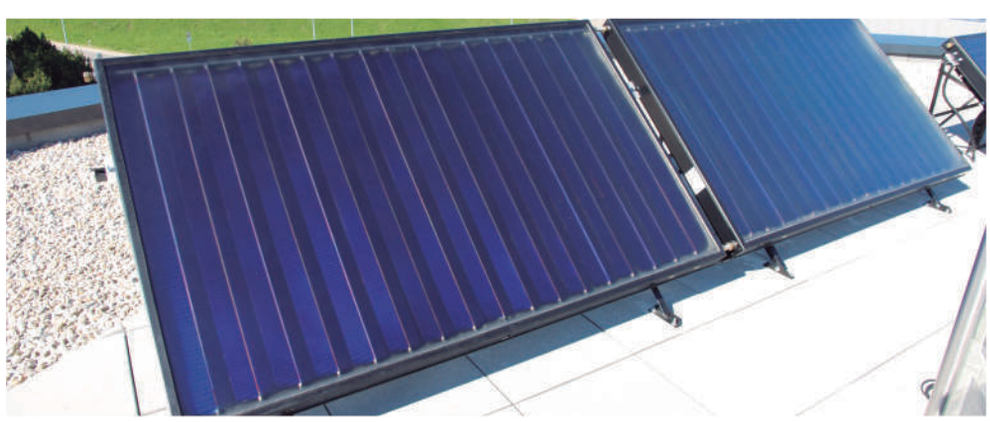
They produce electricity and hot water! This production is complementary because the removal of heat from photovoltaic panels is used to heat water via a calorigenic fluid on the backside of the panels. This increases the electrical efficiency due to the decrease in T ° of the panel. They feed electricity directly to the OTIS lift.

Idéalement conçus pour les domaines ayant un besoin accru en eau chaude (porcherie, fromagerie, etc.)

2
INSTALLED PANELS

1,000
LITERS OF STORAGE IN
THE BOILER

THERMAL PANELS



Useful for preheating and / or heating water. In our case, we store the surplus of hot water generated in a boiler. We are autonomous in hot water thanks to this storage.

60
kW OF POWER

PELLET BOILER

This pellet heatng system is both ecological, renewable and uses indigenous wood production. This system allows us to have a high speed of inertia to heat the administrative building and storage room. The storage room is automatically regulated to a temperature of 15°C and is connected to a system when the sliding doors are open, thus saving energy.

AIR RENEWAL

GREEN WALL

In adition to its very modern decorative aspect and the twenty or so species of plants, our green wall holds numerous virtues: sound insulation, acoustics, and even property! Depollution the plants are capable of filtrating and eliminating pollutants to refresh the air. They help to generate a healthy level of humidity through evaporation.

ENERGY SAVING

10
SENSORS INSTALLED

TEMPERATURE PROBES AND LIGHT SENSORS

The wole building is composed of temperature probes and light sensors thanks to a home automation system. The probes allow to regulate the temperature of each area according to the number of people inside the building. The light sensors act in the same way, they control the intensity of light according to the use and need.

BETWEEN 5 AND 8%
ON ELECTRICITY SAVING

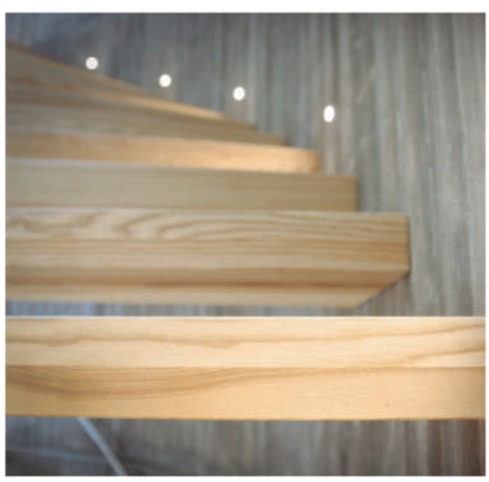
MICRO-PERFORATED BLINDS

Every little bit counts! We want to demonstrate trhough actions that are within our reach that we can save energy. Thanks to the micro-perforation of the shutter slats, we are protected from directs sunlight without losing the benefit of the natural light, and thus avoid the need to turn on the lighting at 100%.

220
LIGHTS INSTALLED

6,000
kWh YEAR ENERGY SAVED (INDOOR AND OUTDOOR)

LED LAMPS



Our building is fully equipeed with LED lighting which reduces energy consumption by 90% compared to standard lamps.

6
LAMPS

80%
ENERGY COMING FROM THE SUN

SOLAR STREETLIGHTS

Solar streetlights illuminating the roads and track around the building. These are the latest generation compact streetlights. The battery is integrated directly into the head of the streetlight along with the photovoltaic panel. They are connected to the grid as well in case of urgent necessity but more than 90% of the energy is provided by the sun.

3

BEEHIVES AT A BEEKEEPER'S DISPOSAL

BEEHIVE

We are convincend that biodiversity is part of the energy concept and that we should not minimilise it! We provide a space for a beekeeper to place three beehives, knowing that bees they are threatened and that spaces safe from pesticides are more and more difficult to find.

NUTS, APPLES, CHERRIES, PEARS ARE FOUND AROUND OUR BUILDING

FRUIT TREES

Around our entire building will be planted various species of fruit trees such as walnut, apple, cherry, pear trees. This is also within the concept of biodiversity and our commitment to the enviroment.

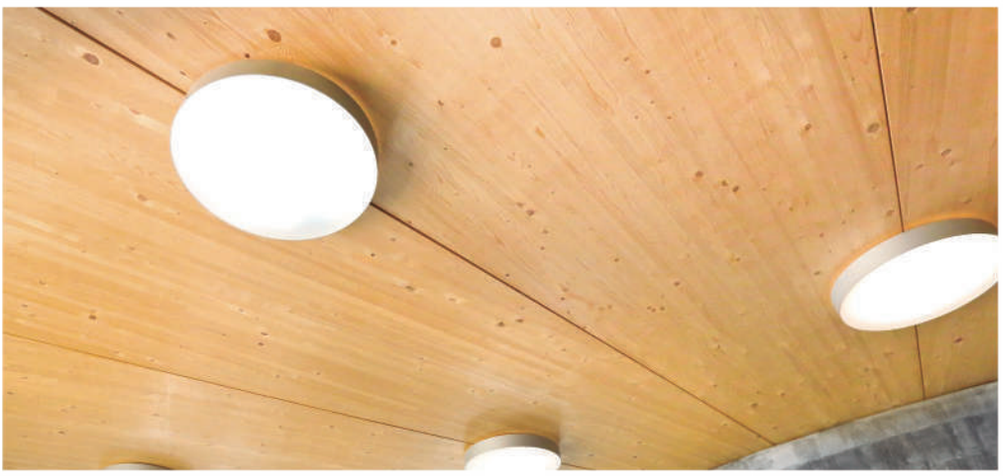
OCCUPANTS

REDSTARTS, CUCKOOS, EURASIAN TREE SPARROWS

BIRHOUSES

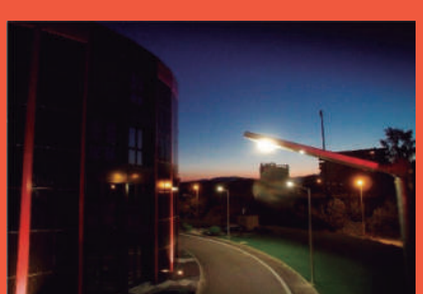
These are specially designed birdhouses to welcome a particular species of bird in ideal conditions. The birdhouses are not a means to attract birds. They are placed in a particularly the species is already present and is trying to reproduce.

STRUCTURE OF THE BUILDING IN WOOD



95 %

OF OUR BUILDING IS BUILT OF WOOD

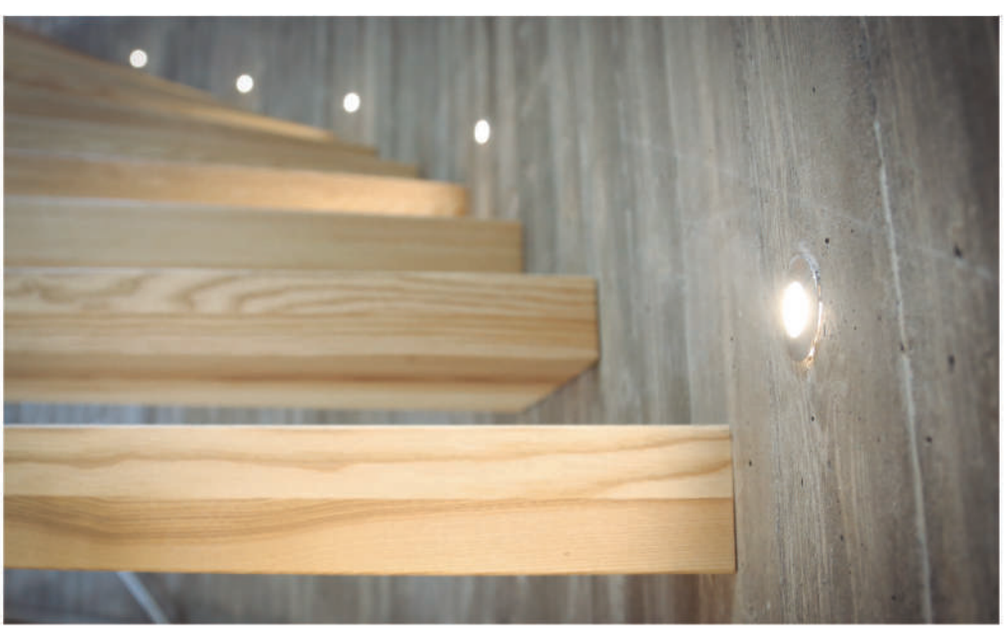


Our reasons to construct with wood:

Firstly, we use "clean" materials, that is to say from natural sources, with little transformation, and reducing the grey energy used reduced to a maximum in order to preserve the environment.

Secondly, the grey energy used is divided by ten compared to a metal framework.

Thirdly, contrary to popular belief, a wood framework is a better fire-resistant than a metal framework. As proof, wood allows for the construction of 100 m high buildings. Of equal weight bearing capacity, wood is five times lighter than reinforced concrete which makes it an indispensable material for the construction of buildings.



SOLAR SWISS AWARD

Soleol received the first place PEB (Positive Energy Building) award for Western Switzerland! All installed systems provide a total of 234,700kWh/year. The Soleol building consumes 163,700kWh/year and offers 143% of its own production.

PRIX SOLAIRE SUISSE 2016

BÂTIMENT À ÉNERGIE POSITIVE

Prix solaire suisse Schweizer Solarpreis

SOLAR AGENTUR

DIPLÔME BÂTIMENT À ÉNERGIE POSITIVE®

BEP 143% SOLEOL SA, 1470 ESTAVAYER-LE-LAC/FR

Le nouveau siège social de Soleol SA est une vraie centrale à énergies renouvelables. L'entreprise a construit la première «fabrique» Bâtiment à Énergie Positive de Suisse romande. Bien intégré à la façade des bureaux, le système PV de 33 kW produit 13'200 kWh/a. Sur la toiture, l'installation PV de 184 kW génère 206'700 kWh/a, en combinaison avec les rampes PV transparentes. S'y ajoute le parking couvert solaire pour recharger les véhicules Tesla, ainsi qu'un ascenseur fonctionnant à l'énergie du soleil récupère le courant à la descente. Tous les systèmes fournissent ensemble 234'700 kWh/a. Le Bâtiment à Énergie Positive de Soleol SA consomme 163'700 kWh/a et assure une autoproduction de 143%.

PREMI SOLAR SWIZZER 2016

PLUSENERGIEBAU-SOLARPREIS-JURY
PLUS ENERGY BUILDING-SOLARPRIZE-JURY
Prof. Peter Schärer, Präsident
Bern, 18. Oktober 2016

SOLAR AGENTUR SCHWEIZ
AGENCE SOLAIRE SUISSE
Gallus Cadonau, Geschäftsführer
St. Gallen, 18. Oktober 2016

SOLEOL IN THE PRESS

2020

Agri – 30 octobre

« Louer son toit, une solution pratique dans le photovoltaïque »

2019

PME Magazine — Juin 2019

« Suivez l'exemple de ces PME qui se sont mises au vert »

2018

La Liberté – 15.11

« L'Etat de Fribourg vise le ciel avec ses panneaux solaires »

La Gruyère – 15.11

« Le canton offre enfin ses toits au solaire »

Construction & Rénovation – Octobre

« Rentabiliser son investissement »

La Broye – 26.07

« Projet pilote dans le solaire »

Swiss Knowhow – Juin

« Soleol, le savoir-faire suisse »

La Broye – 31.05

« Nouveaux citoyens au parfum des énergies renouvelables »

La Liberté – 25.04

« Une éolienne pour Soleol »

Agri – 19.01

"Nouvelle condition pour le soutien au photovoltaïque"

2017

La Broye – 23.11

"Le savoir-faire broyard s'expose"

La Région Nord vaudois – 12.04

"Soleol veut s'implanter au Burkina Faso"

L'Agri – 14.04

"Soleol propose un ecopack pour l'autoconsommation agricole"

Batimag – 26.01

"Sur les rives du lac de Neuchâtel, Soleol fait sa place au soleil"

2016

La Broye – 30.06

"Quand la Broye vend du soleil"

Quotidien La Région – 29.06

"Le solaire au zénith à Onnens"

Bus News – Juin

"Originalité et solutions de grande classe"

La Liberté – 2.05

"Un réseau qui promet le Pérou"

WY CHOOSE SOLEOL?

WE WORK WITH THE BEST, AND PRIVILIGE QUALITY AND CLOSENESS	SKILLS AND KNOWLEDGE	WE LISTEN TO YOUR NEEDS AND PROVIDE ADVICE	VALUES AND TRAINING
Constrelec SA Tableaux et armoires électriques PROTOMAT	Workflows Instalallation estimations Cost optimisation Respect of deadlines Experts in each domain	Respone within 48 hours We respond to all requests for quotes in a short period of time There is always someone to answer your call	Burkina Faso's Solar Installation in Niger Shipment of solar pocket fashlights to Africa (micro-credit) Training company We support various organizations and NGOs

SOLEOL INVESTS!

BURKINA VISION is a Swisse development aid association recongnised as an NGO wich at the moment is working in Burkina Faso, West Africa. Their main goal is to provide social, humanitarian and spiritual and in the country's most vulnerable communities.

Thanks to private donations, 900 children have access to quality education at the Shalom school in the Rimkieta neighbourhood on the outskirts of Ouagadoudou.

Jean-Louis Guillet, Vice President of Burkina Vision the last 6 years, is proud to have associated the company Soleol to this project which has allowed for the drilling and creation of a pump providing abundant water to all the students and teachers.

The water is also sold to meet basic needs. An autonomous solar installation was also installed, allowing for schooling at night.

On November 17, 2018, the association inaugurated the "Maison du partage", a celebration full of joy for everyone. Fortunately, a mission like this does not stop after one successful project. Indeed, the Shalom School is an example success and could continually open new classes. They also have plans to continue as an annex to the "Maison du partage" "a house for the widow and the orphan".





SOLEOL
ENERGY SYSTEMS

WE SUPPORT!

GOLF CLUB PAYERNE

Comptoir Broyard

MAKE A WISH

F.C. ESTAVAYER

GROUPEMENT JUNIORS

EHB
Ensemble d'harmonie de la Broye

Estavayer-le-Lac
6 au 9 août

CAMARA DE COMERCIO SUIZA EN EL PERU

América Baila

BURKINA VISION

AFHG FCHV

Club Equestre GALOPINOS

LA BÉNICHON DU PAYS DE FRIBOURG
DIE KILBI IM FREIBURGERLAND

ESTAVAYER

FC RESSUDENS

Gym St-Aubin

AMICALE DES TROIS CHÊNES

Maternelle des Chatons

L'Arc-en-Ciel
Jardin d'enfants à Grandcour

LA LYRE FAIT SON CIRQUE
CORCELLES
29 MAI AU 2 JUIN 2019

LudiMania'K

SUEÑOS DE GLORIA

Adonia

ELSA Bike Trophy

energissima

Swing in the Wind Jazz Festival

Choeur mixte de Chevroux La Chanson du Lac

à la fée FRAISE
Promasens 2017

VERY OPEN POP PARTY

ESTIVALE OPEN AIR

ESTAVAYER 2016
26-28 AOUT
UNE PASSION, DES ÉMOTIONS

Kiwanis Payerne-La Broye

Festival du Film Vert
Le cinéma pour un futur durable

Festival des ROSES

Triclub-Esta-Broye

BORGNEVILLE
GRANDCOUR

Fondation THEODORA
Des clowns pour nos enfants hospitalisés

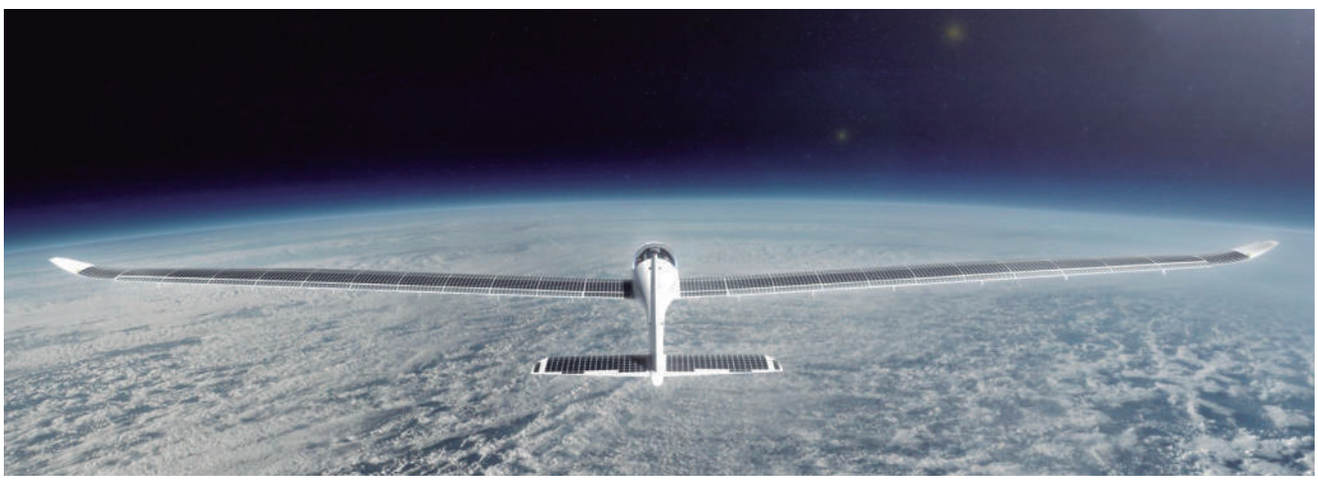
FOOTBALL CLUB MATRAN

Atelier d'éveil "Les P'tits Lutins"

FOOTBALL CLUB CORCELLES FCC

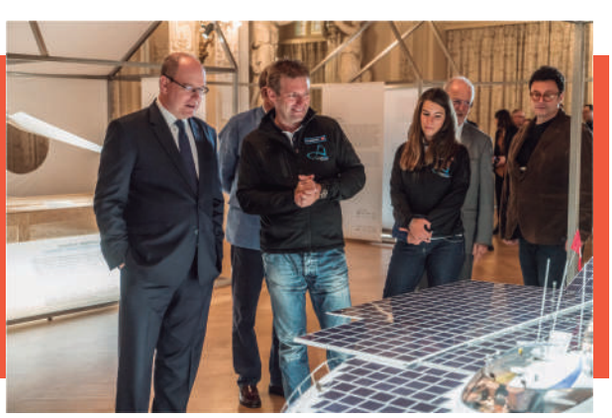
4L TROPHY
Desert Aventure!

SOLEOL, PARTNER OF THE SOLARSTRATOS MISSION



We are partners in the **SolarStratos mission**, the stratospheric solar airplane project initiatied by Raphaël Domjan. This mission seeks to achieve its goal of realising, no later than 2018, the first stratospheric solar flight at more than 80,000 feet, or more than 24,000 meters. The aircraft's solar systems were developed in collaboration with CSEM in Neuchatel. At this extreme altitude, where the temperature is below 70°C and 5% of the atmospheric pressure, Raphaël Domjan will observe the stars in full day light and discover the curvature of the earth. The SolaStratos aircraft will fly at an altitude unattainable by conventional propulsion. This collaboration with SolarStratos allows to promote and advance solar technology around the world. It also creates a relationship based on trust-vis-à-vis our clients, whether in Switzerland or abroad, with Swiss technology being renowned and respected.

PlanetSolar is a Swiss foundation that wants to demonstrate that there are human-scale solutions to climate change.
"Because we also believe in these solutions and want to promote them, Soleol is the official sponsor of the foundation".



SOLARSTRATOS
TO THE EDGE OF SPACE

www.solarstratos.com