

# Press kit

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## **GOLDBECK SOLAR – Solar Projects at their best**

GOLDBECK SOLAR is an international company specialized in the turnkey construction of industrial, commercial, and large-scale photovoltaic plants for free fields or rooftops. The range of services covers the entire value chain, from project development, construction, operation, and maintenance of the plant to selective project financing.

The team of engineers specialized in photovoltaics has more than 20 years of experience in the construction of solar power plants with optimal yields and enjoys an excellent reputation in the market for the professionalism of its products and services. GOLDBECK SOLAR has received several awards for its technical quality. In this year 2021 the most prestigious award in the solar industry. The Intersolar Award Photovoltaics for the introduction of innovation for the hybrid construction of solar plants.

Sustainable growth and the search for a better balance between technology, nature, and man is the vision of the company led by Joachim Goldbeck. Another aspect that distinguishes this global company is its financial strength. Through the construction of technologically and economically optimized solar power plants, customers are supported in achieving a CO2-neutral balance sheet. In addition, various innovative options are offered for the purchase of energy for self-consumption or grid feed-in.

The company maintains a constant development process based on innovation and digitalization. As a result, new products and tools are developed to offer the best solar solutions to customers. The search for hybrid solutions has led GOLDBECK SOLAR to introduce MarcS. This innovation will revolutionize the way of building solar plants by multiplying the possibilities of uses on the same plot of land in an automated way.

Its sustainable nature as well as its high degree of innovation and several international references distinguish GOLDBECK SOLAR and make it one of the most valuable solar companies in Europe.

<b>2001</b>	Joachim Goldbeck founds the companies GOLDBECK SOLAR and SOLARNET
<b>2007</b>	Start of internationalization in Europe
<b>2008</b>	Entry into the Spanish market
<b>2009</b>	Expansion of the product range with photovoltaic systems for parking garages, facades, and landfills
<b>2010</b>	Market entry into the Czech and Slovakian markets
<b>2011</b>	Expansion into the British market

- 2014**      Award for best utility-scale PV plant in GB with the "Lackford" project  
Intersolar Award for Technical Excellence for the Marienheide School and Sports Center in North Rhine-Westphalia  
Joachim Goldbeck elected BSW President
- 2015**      Acquisition of SOVENTIX O&M and Gehrlicher O&M In the UK, our first 50 MW plant is connected to the high-voltage grid
- 2016**      Internationalization to Latin America and Asia with Solarnet
- 2017**      Opening of the Mexico City branch and market entry in Chile and Thailand  
Intersolar Award 2017 for Hellsiek landfill cover
- 2018**      GOLDBECK SOLAR and SOLARNET merge to form the new internationally positioned GOLDBECK SOLAR  
Construction of the largest solar plant in Central Asia SES Saran 100 MWp
- 2019**      GOLDBECK SOLAR builds the largest solar plant in the Netherlands with 103 MWp and consolidates its position in this mega sector  
The 1GW mark is reached
- 2020**      Akadyr Extension in KZ with 26 MWp, Solarpark Zietliz in Germany (80MWp), and in the NL a cumulate power of 270 MWp. Reaching the 1 GW mark for O&M service contracts. A joint venture with Chint Solar with the new ZONNEPARK Services Netherlands B.V. Finally the Participation in PMT (Premium Mounting Technology)
- 2021**      GOLDBECK SOLAR celebrates 20th anniversary  
Introduction of the MarcS innovation and honored with the Intersolar Award 2021  
Construction of the largest project in East-Central Europe Zwartowo with 289 MWp  
Completion of Bavelseberg (37MWp) the most challenging project of GOLDBECK SOLAR so far  
Disposal of the Kazakhstan portfolio

## Facts and Figures

<b>20 years</b> Experience since 2001	<b>17 countries</b> Business activities	<b>1.200 MWp</b> Portfolio O&M
<b>&gt;2.000 MWp</b> Installed power	<b>&gt;2.500 MWp</b> Order performance	<b>165</b> Employees

## **MarcS: Shaping the future of solar energy**

### **GOLDBECK SOLAR launches the solar arc that will change the photovoltaic industry | Winner of the Intersolar Award 2021**

On the occasion of its 20th anniversary, GOLDBECK SOLAR presents an innovation that will change the construction of solar plants. With the innovative product MarcS (Modular Arc System), which was awarded the Intersolar Award 2021, solar systems are installed in the form of solar arches. The area available for solar energy generation is built over in such a way that the space underneath remains usable. All while maximizing solar energy production. MarcS allows for more effective land use, increased profitability, and more efficient use of resources.

#### **Enormous added value for agriculture**

The inspiration for this design not only comes from 20 years of experience in building solar systems, but it also feeds from the wishes and ideas of the farmers who have shaped the product development process with us. MarcS represents a way for farmers to generate more income from their crops by using their land twice. "MarcS is a real innovation that takes into account the challenges in agriculture and offers suitable solutions for them," explains Joachim Goldbeck, Managing Director of GOLDBECK SOLAR.

The shape of the arch is statically very solid and widely used in architecture, as well as commonly found in majestic formations of nature. The arches can slide on the side rails. Their position is flexibly adjustable. Land areas in this way can be released or protected from the sun's rays at will. This feature is particularly interesting for alternative use of land areas. And there are even more advantages for farmers. For one thing, the modules protect animals and plants from extreme weather conditions such as hail, drought, or excessive sunlight. For another, temperature, humidity, and light can be better controlled, optimizing the quality of breeding and harvesting.

In addition, very interesting extensions are planned for the use of the space under the modules. For example, vertical farming with additional light is just as conceivable as closing off the side areas for additional storage space. All this and much more is currently being developed based on a robotic farming concept.

#### **Automated assembly**

The new product includes an automatic or semi-automatic installation concept, as desired, which brings speed and accuracy. "We are entering a new generation of solar power plant installation. MarcS construction is much easier and faster," says Joachim Goldbeck, managing director of GOLDBECK SOLAR.

### **Available in the Netherlands and later in other countries**

MarcS will first be offered in the Dutch market. There, MarcS will soon be used for the first time in the realization of a solar plant of one of our regular customers. An installed capacity of 45 MWp is the target of this plant. After that, other markets will follow.

To learn more about MarcS, visit our website [www.goldbecksolar.com/marcs](http://www.goldbecksolar.com/marcs) or meet us live at the Solar Solutions exhibition (Hall A2.1) from September 28-30 at Expo Haarlemmermeer in Amsterdam.



Caption: *Modular Arc System (MarcS)*

## **Bavelse Berg solar landfill: A technical masterpiece**

**GOLDBECK SOLAR has successfully completed the construction of one of the most demanding landfills in the Netherlands**

Bavelse Berg is well known beyond the Breda region and, due to its height in the flat Netherlands, is visible from afar. What you don't see is the technical masterpiece that GOLDBECK SOLAR has accomplished in the construction of the new solar landfill on the Bavelse Berg. The solar plant has been mechanically completed and will contribute to the energy transition in the Netherlands in the future.

### **Circumstances required massive pre-planning**

"Bavelse Berg is a dual-use project," begins Tobias Friedrich, Head of PC Netherlands. "In addition to storing waste, energy will also be produced here in the future. This makes the symbolic and well-known mountain an important part of the Dutch energy transition." But even more significant for Tobias Friedrich was the technical challenge: "Bavelse Berg is, in my opinion, the most difficult and demanding project that GOLDBECK SOLAR has built so far. It is a worthy confirmation of our 20 years of experience."

Specifically, Friedrich alludes to the degree of technological innovation in the construction of the project for GROENDUS. This is because the landfill is covered with a foil. This foil starts just below the surface in various areas. In addition, the landfill has numerous valves and a pipe system built to allow gas to escape from the landfill.

At the same time, the geographical conditions of the mountain and the current use by agriculture also had to be taken into account in the planning. Finally, the plant must be flexible enough to compensate for the natural shape of the mountain. In addition, the PV modules should not block the agricultural land. And GOLDBECK SOLAR also had to be meticulous about not damaging anything during construction.

"For us, this meant massive preliminary planning work," says project manager Maurizio Luvera. "For this, we had to use the highest engineering skills and even take innovative approaches at times in order to be able to realize the project with all its imponderables. "

However, it was not only the technical challenge that made the project more difficult for GOLDBECK SOLAR. The Corona pandemic also meant more complex construction conditions for the international company. "In the end, however, we were able to do everything most of the time," Maurizio Luvera sums up.



### Completion successful

With mechanical completion, the energy supply from the Bavelse Berg solar landfill can now begin. In the future, the plant will supply electricity for 9,000 households. At the same time, the landfill site provides a habitat for various animals and produces gas in addition to energy.



Caption: *Bavelse Berg, Breda, Netherlands*



## **20 years of Goldbeck Solar: A pioneer of the energy transition**

**GOLDBECK SOLAR celebrates its 20th anniversary this year and looks back on exciting projects during this time. The solar service provider has played an active role in shaping energy development to date over the last two decades and sees the energy turnaround as the task of every individual.**

The energy turnaround, and with it the switch to clean energy, is being driven ever more strongly worldwide. With his company, Joachim Goldbeck also laid the foundation for this development. 20 years ago, he founded GOLDBECK SOLAR, which specializes in the planning and implementation of photovoltaic systems. This year, the Hirschberg EPC company is celebrating its anniversary.

"20 years of working on the energy transition and the realization that you can build a sustainable company with a vision - that's what GOLDBECK SOLAR shows," begins Joachim Goldbeck. "For 20 years, we've been a family business that supports employees\* and their families and takes them along on the journey."

He adds further: "The decision at that time to be active as an entrepreneur in the field of green energy was right. The current developments now give us the certainty that we can also tackle the next few years with vigor and new ideas so that the energy supply is converted to 100 percent renewable energy in the long term."

### **Employees are the most important success factor**

Tobias Schüßler, Chief Operating Officer of the PV service provider, and Joachim Goldbeck see great merit in the employees. "The main value is the employees and colleagues who bundle their knowledge and commitment in the team and thus make the company an implementation-strong and innovative partner for our customers," says Joachim Goldbeck. Tobias Schüßler adds, "But an important role is also played by the owner, who believes in the team and the industry."

This know-how and commitment resulted in some exciting projects in the past two decades, such as the Akadyr Extension 2020 in Kazakhstan, NEEC in Murcia, the first ground-mounted project, and the first project outside Germany in 2008, or Sandridge as the first project with a substation in 2016.

Goldbeck and Schüßler attribute the success of the past years to the curiosity and flexibility of the company as well as the courage to break new ground. For GOLDBECK SOLAR, however, the journey is far from over. "We want to continue to use our market experience and seize new opportunities in the future," says Joachim Goldbeck.

### **Everyone can play an active role in shaping the energy transition**

For this year, therefore, not only the joy about the anniversary is on the agenda. Joachim Goldbeck gives customers and business partners the following to take with them: "Everyone can now participate in clean power generation in an economically sensible way - as a producer with their PV system, as an investor, or simply as a customer who purchases clean power."

According to Tobias Schüßler, the energy transition will only work if everyone helps out. "Solar is the cheapest source of electricity generation today, and it is worldwide. We should therefore continue to work on it together."

## **The fiscal year 2020/ 2021**

### **GOLDBECK SOLAR looks back on a successful business year**

**Hirschberg company is also confident for the future after a successfully completed fiscal year**

GOLDBECK SOLAR specializes in consulting, planning, installation, and maintenance of commercial solar systems and benefits from the booming trend towards clean energy generation. This resulted in a very positive development in the fiscal year 2020/2021, which ended on March 31, 2021.

#### **Significant increase in sales**

With a volume of 180 million euros, sales at GOLDBECK SOLAR have increased significantly despite the Corona pandemic. This growth is mainly due to the realization of major projects in the Netherlands and Germany. These include Stadskanaal (101,000 kWp), Buinerveen (45,000 kWp) and Weierweiler II (20,000 kWp). The investment in Zonnepark Services B.V. in the Netherlands adds to the Operations & Maintenance order book in the Netherlands to more than 1 GWp. Furthermore, the company was able to realize two important projects in Mexico: Autodromo and Mann&Hummel, which were the first projects with solar trackers (a technology that follows the sunlight and regulates the position of the solar modules). The planning and execution of these international projects went very well despite the pandemic.

In addition, the GOLDBECK SOLAR Group made a strategic investment for the further development of the GOLDBECK SOLAR product portfolio by acquiring a stake in Premium Mounting Technologies (PMT), based in Stadtsteinach.

#### **Corona restrictions**

Despite the healthy organic growth, there were nevertheless restrictions due to the pandemic. In particular, delays in the delivery of modules from China and electrical components from Europe as well as travel restrictions for employees hampered project plans. "Thanks to flexible, targeted action, we were nevertheless able to successfully implement all projects within the cost and time budgets," explains Managing Director Joachim Goldbeck.

#### **Attractive starting conditions for the new fiscal year**

Due to the growing awareness of companies and politics to act in favor of the environment, the expectations for the new business year are high. GOLDBECK SOLAR expects stable growth also in the future. The company continues to work towards ensuring the generation of clean energy at the best prices in the long term. The solar expert has already won several projects in the Netherlands, Germany, Chile, and Mexico, which will ensure sufficient capacity utilization in the new fiscal year. Only the current bottlenecks in the global commodity markets can affect the good prospects for the industry and the company.

In the 2021/2022 financial year, special focus will be placed on the Polish market, which is just beginning to replace fossil-fuel power plants with clean power generation. Through large-scale projects such as in Zwartowo, which will be the largest photovoltaic power plant in Central and Eastern Europe with its total output of 290 MWp, GOLDBECK SOLAR is contributing to healthy solar growth in Poland.

### **Prepared for the future**

The confidence in the order situation and the strong growth also leads to an increase in the number of employees at GOLDBECK SOLAR. The company is constantly looking for employees who want to help shape the energy transition.



*Caption: Managing Director Tobias Schüßler and Joachim Goldbeck*