

Press Kit

Status: 01. April 2023



Contents

1. Company description and chronicle
2. Facts and figures
3. GOLDBECK SOLAR acquires GP JOULE PV North America
4. Solar park Zwartowo: The project of the superlative project
5. Solarplanner: The next generation of solar plant planning
6. TOP employer 2022: GOLDBECK SOLAR receives award from Focus-Business
7. Review: Fiscal business year 2022

GOLDBECK SOLAR Energy concepts with system

GOLDBECK SOLAR is an international company specializing in the turnkey construction of industrial, commercial and large photovoltaic systems. 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 maintain an excellent reputation in the market for the professionalism of its products and services. GOLDBECK SOLAR has already received several awards for its technical quality.

Striving for a better balance between technology, nature and man is the vision of the company led by Joachim Goldbeck. Thus, the development of GOLDBECK SOLAR since its foundation has been sustainable. Another aspect that distinguishes the global player in the photovoltaic industry is its enormous financial strength. By building technologically and economically optimized solar power plants, customers are supported in achieving a CO2-neutral balance. In addition, various innovative options are offered for the purchase of energy for self-consumption.

The company maintains a continuous process for the development of innovation and digitalization. Therefore, new products and tools are developed to offer customers the best solar solutions. The search for better hybrid solutions has led GOLDBECK SOLAR prompted to present MarcS. This innovation will revolutionize the way solar installations are built by multiplying the possibilities of hybrid uses on the same property on an automated basis. In this way, a more intelligent use of resources will be achieved.

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

2001	Joachim Goldbeck founds the companies GOLDBECK SOLAR and SOLARNET
2007	Start of internationalization in Europe
2008	Entry into the Spanish market
2009	Expansion of the product range to include photovoltaic systems for parking garages, facades and landfills
2010	Entry into the Czech and Slovakian market
2011	Expansion on the British market

- 2014** Award for the best large-scale PV installation in GB with the "Lackford" project.
Intersolar Award for Technical Excellence for the Marienheide School and Sports Center in North Rhine-Westphalia
Joachim Goldbeck is elected BSW President
- 2015** Acquisition of SOVENTIX O&M and Gehrlicher O&M. In Great Britain, 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 branch office in Mexico City 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
Consolidates its position in this mega sector
The 1 GW mark is reached
- 2020** Akadyr Extension in KZ with 26 MWp, Solarpark Zietliz in Germany (80MWp), and in the NL a cumulative capacity of 270 MWp.
Reaching the 1 GW mark for O&M service contracts.
Joint venture with Chint Solar and foundation of the new ZONNEPARK Services Netherlands B.V.
Participation in PMT (Premium Mounting Technology)
- 2021** GOLDBECK SOLAR celebrates 20th anniversary
Construction of the largest project in East Central Europe Zwartowo with 289 MWp
Completion of Bavelseberg (37MWp), the most challenging project of GOLDBECK SOLAR
Sale of the Kazakhstan portfolios
- 2022** GOLDBECK SOLAR acquires GP Joule North America. GOLDBECK SOLAR and the GP JOULE Group announce that GOLDBECK SOLAR has acquired the PV-EPC business unit of GP JOULE in North America. With this acquisition, GOLDBECK SOLAR strengthens its position in the North America, with existing operations in Chile and Mexico.

Facts and figures

22 years Experience since 2001	20 countries Realised projects	1.5 GWp Portfolio O&M
2.5 GWp Installed capacity	15 Active Markets	365 Employees

GOLDBECK SOLAR acquires GP JOULE PV North America

Effective September 09, 2022, the GOLDBECK SOLAR Group and the GP-JOULE Group announce that GOLDBECK SOLAR has acquired the North American PV-EPC branch of GP JOULE and is now the sole shareholder of the two North American companies GP JOULE PV Canada Corp. and GP JOULE PV USA Inc. With this acquisition GOLDBECK SOLAR strengthens its position on the American continent in addition to the teams in Chile and Mexico.

The purchase includes the acquisition of the entire GP JOULE EPC NA team as well as the use of the local brand for a limited period of time. Our new local team and their expertise are the basis for this strategic step. They understand the culture and the specifics of the market, and with the resulting synergies we will be able to improve our offer to customers, says Joachim Goldbeck, CEO of the GOLDBECK-SOLAR Group. With our new colleagues we have a solid basis to master the opportunities and challenges of the North American market. The fact that the corporate culture also fits was a prerequisite, and now we are looking forward to growing together in Canada and the USA in the future.

Increased growth planned in North America

"The acquisition is the next step in GOLDBECK SOLAR's growth strategy.

Having already invested in a portfolio of projects in Canada at the beginning of the year, we intend to increasingly develop and build solar plants in North America over the next three years", says Constantin Lindenmeyer, Head of Business Development and Strategy at GOLDBECK SOLAR.

"We are convinced that in GOLDBECK SOLAR we have found the right partner and buyer for our companies in North America", says Ove Petersen, co-founder and CEO of GP JOULE. We are putting our EPC business in Canada and the USA, which has developed excellently in recent years, into good hands and can focus even more on our growth in Germany and Europe.

About GP JOULE PV in North America

GP JOULE PV Canada Corp. and GP JOULE PV USA Inc. were subsidiaries of the GP JOULE Group based in Germany until 09.09.22.

The vertically integrated EPC company supplies turnkey PV and energy storage power plants with proprietary single-axis tracked and fixed tilt frame systems. With more than 200 MWp of projects completed over the built in Canada and the northern U.S. states over the past 10 years, GP JOULE EPC NA specializes in serving utilities and C&I segment customers. specializing. Founded in 2011, the company is headquartered in Toronto, ON, and since 2016 has maintained a presence in Calgary, AB, and most recently established a location in Halifax, NS in 2022. Its U.S. satellite office is located in Los Gatos, CA.



Caption: Ove Petersen, CEO of GP JOULE, and Joachim Goldbeck, CEO of the GOLDBECK SOLAR Group.



Elemental Energy Inc. Innisfail Solar FarmSOLAR.

Zwartowo Solar Park: The Project of Superlatives

Largest solar power plant in Central and Eastern Europe connected in July 2022

With a total output of 290 MWp, the Polish solar park Zwartowo will be the largest plant that GOLDBECK SOLAR has built so far. Since September 2022, the first phase with 204 MWp of the mega project has already been feeding clean energy into the Polish grid. The construction of the second phase with 86 MWp is planned for the beginning of this year.

Immense importance for the future of photovoltaics

Zwartowo is not only of great importance for GOLDBECK SOLAR, but also for Central and Eastern Europe. For Poland in particular, the solar park makes an important contribution to achieving its own climate protection goals and energy independence.

"The positive effects on the environment are enormous," begins Joachim Goldbeck, Managing Director of GOLDBECK SOLAR. "Through Zwartowo, around 90,470 households can be supplied with green electricity and CO2 emissions can be reduced by around five million tons during the project period. "The entrepreneur has already proven that he is convinced of the quality of the project when it came to financing. Together with his partner Respect Energy, Joachim Goldbeck provided his own capital for the realization of the plant. In addition, the GOLDBECK-SOLAR Group was able to obtain successful financing from the EBRD as well as the two largest Polish banks, PKO BP and Bank Pekao. Joachim Goldbeck adds, "We need to create examples that clearly demonstrate the advantages of photovoltaics on a large scale. We are determined to build large solar power plants to achieve energy independence in Europe".

Immense importance for the future of photovoltaics

With the stability and experience gained from numerous solar projects, the German company has the best prerequisites to master any challenge.

We are determined to build large solar power plants to achieve energy independence in Europe. Immense importance for the future of photovoltaics. Zwartowo is a clear example of this. For the construction of the plant, the EPC branch and the investment branch optimized the plant with SolarPlanner, a planning software developed in cooperation with the Fraunhofer Institute ITWM. The software provides a valuable overview of all possible technical designs and their economic key figures. With an area of around 300 ha, Zwartowo is not only a superlative project in terms of output. For GOLDBECK SOLAR ecological factors also played a role in the planning. For example, biodiversity should not be endangered by the solar park. And the salvage of the archaeological remains also took some time before the plant could be put into operation.



Bildunterschrift: *Solarpark Zwartowo*

SolarPlanner: The next generation of solar system planning

GOLDBECK SOLAR presents its new planning tool for the first time at the Intersolar in Munich 2022

Appearance wise, solar systems resemble each other and give the impression that they are easy to build. In reality, however, it is a technical feat to build a high-quality solar system that takes into account all the necessary parameters and runs for at least 25 years at very low operating costs. Many suppliers therefore use professional planning tools such as With SolarPlanner, GOLDBECK SOLAR is now introducing the next generation of planning tools for solar systems, planning tools for solar plants. This is exclusively for GOLDBECK SOLAR customers.

Extensively tested in practice

On the one hand, the SolarPlanner is intended to help select the best system configuration and, on the other hand, to "standardize the planning process", says Joachim Goldbeck, Managing Director of GOLDBECK SOLAR. This is because individual circumstances, rapid changes on the one hand and differentiated customer requirements lead to lengthy iteration loops and decisions based on insufficient information. An integrated planning tool can be the ideal on which the planning of the plant can be built. The SolarPlanner in collaboration between GOLDBECK SOLAR and the Fraunhofer ITWM. "We have tested the SolarPlanner together with the Fraunhofer ITWM on many real solar plants. This allowed us to quickly see what made sense and what didn't." Joachim Goldbeck explains.

Smart tool for well-founded planning

The result is a smart planning tool for optimal solar plants, which can be used to commercially evaluate thousands of technical configurations can be compared commercially and technically within a few minutes. From basic commercial information and technical variants the park layout is automatically generated, the respective manufacturing and operating costs are simulated and economic key figures are determined and graphically processed. Subsequently, the customer can the customer can weigh up the parameters of the configurations in a discussion with the consultant and select the best variant on the basis of the available information. For this purpose SolarPlanner combines information on several technical and economic variants in a database. Using these, the software runs a series of simulations of the site using a specially developed model. a series of simulations of the site, creating detailed CAD drawings and evaluating the and clearly shows the balance of parameters to be evaluated. "With SolarPlanner you can easily make design comparisons with different components, alignments, economic and technical parameters, direct parameters such as yield and cost as well as more complex parameters such as IRR (internal rate of return) or LCOE (levelized cost of electricity)," adds Joachim Goldbeck.

"In addition, the tool compares hundreds of variants with each other to find the optimal layout according to specific parameters." In this way, SolarPlanner can, among other things, also show the area of tension between different parameters and offers an opportunity for out-of-the-box solutions in direct comparison.



Image: *Solar Planner*

TOP Employer 2022: GOLDBECK SOLAR receives award from Focus-Business

According to Focus-Business, GOLDBECK SOLAR is one of the best medium-sized employers in Germany

More than 38,000 medium-sized companies have been closely examined by the Fact Field team on behalf of Focus-Business took a close look at more than 38,000 medium-sized companies in recent months. Employees were interviewed, the collected evaluations were evaluated and supplemented by online votes. The result was a comprehensive overview of corporate culture in Germany. The approximately 4,000 companies rated best by their employees can now call themselves TOP Employer 2022, among them 78 companies in the energy industry. GOLDBECK SOLAR is one of them. "Without the commitment and enthusiasm of our employees for solar energy, we would not be where we are today with our company," says CEO Joachim Goldbeck. "That's why it goes without saying that we do everything we can to create a good working environment for our team and to encourage and support each and every one of them. Our employees not only fulfill functions, they actively participate in shaping the future of our company."

Living company values

In the year of the company's 20th anniversary, GOLDBECK SOLAR again proved to be a fast-growing and innovative player in the solar industry. The start of construction of the largest solar power plant in Central and in Central and Eastern Europe in Pomerania, the implementation of the solar roof for Fraport, project development in development in Kazakhstan and the outstanding Bavelse Berg plant in the Netherlands. A commitment that was rewarded with the Intersolar Award 2021 for the innovation MarcS. "Managing projects like this takes strength and motivation. We are grateful to have a team around us that is eager to advance our industry forward with us," says COO Tobias Schüßler. The company now has more than 265 employees in the markets of Germany, the Netherlands, Mexico, Poland, the United Kingdom, Ireland, Kazakhstan, the United States, Great Britain, Ireland, Kazakhstan, Portugal, Canada, USA, Chile and Thailand. GOLDBECK SOLAR relies on international know-how. This is reflected in the more than 20 regions of the world from which our employees come. 20 countries, but one nationality: Citizens of the World.

Review: This is how the 2022 fiscal year was

Hirschberger company, after a successfully completed fiscal year, is also confident for the future

GOLDBECK SOLAR specializes in consulting, planning, installation and maintenance of commercial solar plants and benefits from the booming trend towards clean energy production. energy generation. This has resulted in a very positive development in the fiscal year 2021/2022, which ended on March 31, 2022.

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 complements the Operations & Maintenance order books 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 to be projects with solar trackers (a technology that follows the sunlight and regulates the position of the solar of the solar modules). The planning and execution of these international projects went very well despite the very well, despite the pandemic.

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

Restrictions due to Corona

Despite the healthy organic growth, there were nevertheless restrictions due to the pandemic. In particular, delivery delays of modules from China and electrical components from Europe as well as Travel restrictions for employees have hindered project plans. "Through flexible, targeted approach, we were nevertheless able to successfully implement all the 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 politicians to act in favor of the environment, expectations for the new fiscal year are high. GOLDBECK SOLAR expects stable growth in the future. The company continues to work towards ensuring the generation of clean energy at the best energy at the best prices in the long term. In the Netherlands, Germany, Chile, Canada, USA and Mexico, the solar expert has already been able to win a number of projects, which will ensure sufficient capacity utilization in the new fiscal year.

Only the current bottlenecks on the global raw material markets could affect the good outlook for the industry and the company.

In fiscal 2021/2022, particular focus will be on the Polish market, which is just starting to replace fossil-fuel power plants with clean power generation. Thanks to major projects such as in Zwartowo, which with its total output of 290 MWp will be the largest photovoltaic power plant in Central and Eastern Europe, GOLDBECK SOLAR contributes to a healthy solar growth in Poland.

Prepared for the future

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



Image: Geschäftsführer Tobias Schüßler, Joachim Goldbeck und Michiel Vanhoutte