



VISPIRON EPC

Internationally experienced, reliable, competent.



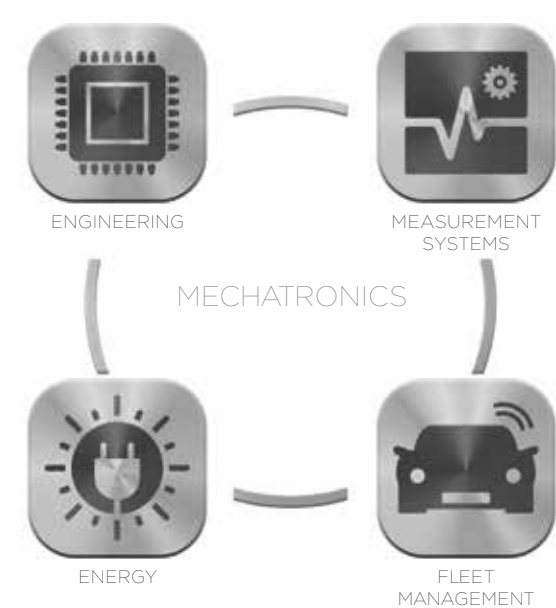
vispiron.de/energy

What makes VISPIRON successful?

Diversity and innovation

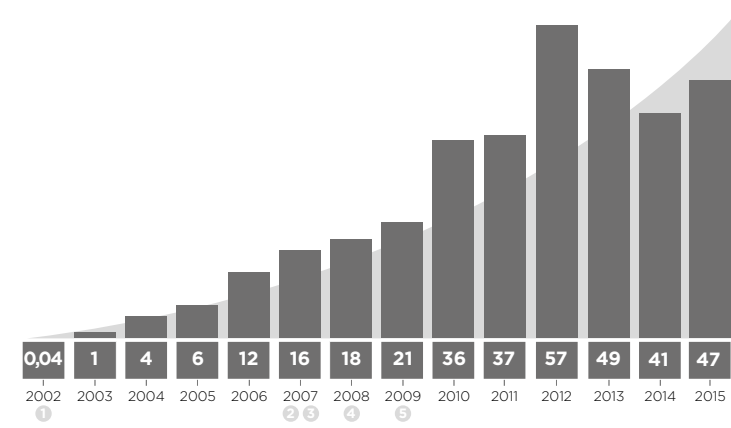
VISPIRON is a German technology company founded in Munich in 2002. As a group of companies, we offer innovative and sustainable engineering services in four divisions.

The ENGINEERING division is an R&D partner of numerous companies and implements client solutions in the areas of car IT, powertrain systems, embedded systems, industrial and mobility software. ROTEC measurement systems are a global market leader in the area of torsional vibration analysis and are used in the development of engines, gearing mechanisms and turbines. With CARSYNC, VISPIRON offers fleet management for efficient, CO2-reducing mobility. The ENERGY division specialises in turnkey solar and wind parks and is also active in the field of pumped storage power stations.



The four segments of the company create valuable synergies, which VISPIRON implements across all sectors and which afford customers a major competitive advantage. VISPIRON engineers are outstandingly educated and work on a wide range of development and future-oriented projects for DAX companies. This requires profound expertise but also the ability to think outside the box.

VISPIRON has been experiencing dynamic but healthy growth. As a result, the headquarters in Munich have been joined by branch offices in Germany, Europe, Asia and the United States, proximity to customers and sales markets being of crucial importance. In 2002, VISPIRON started out with just 10 employees. Today, they number just under 400.



- 1 2002: Start-up as a development service provider with a focus on mechatronics
- 2 2007: Realignment as a technology group: Products and services with a core competency in mechatronics
- 3 2007: Start-up of Deutsche Solar Werke
- 4 2008: Acquisition of ROTEC GmbH
- 5 2009: Acquisition of PINCAR AG
- 2015: Acquisition of everywhere GmbH

Group revenues in million euro. Since 2011, total operating revenues

Customers and awards: VISPIRON is competent, reliable and profitable

VISPIRON's primary measure of success is customer satisfaction. The company is distinguished by the extremely close relationships we maintain with our customers - a few major ones have been with VISPIRON since our founding. As evidenced by numerous business awards, growth, innovative power and corporate culture are prized qualities.

To this day, the group of companies is still lead by its founder, Amir Roughani, who deliberately opted against an IPO and venture capital. So, to this day, VISPIRON continues to be driven by innovation and not stakeholders. Amir Roughani himself has been the recipient of the most renowned entrepreneurship awards.



Amir Roughani

Winner of Entrepreneur of the Year 2014

Every year the audit and consulting firm Ernst & Young honours companies which "impress with their wealth of ideas and innovativeness, which do not simply obstinately pursue their economic aims, but which also actively engage themselves in supporting young people, disadvantaged persons or sport." In 2014 Amir Roughani received the prestigious "Entrepreneur of the Year 2014" award in the category "Services and Information Technology" for the VISPIRON Group.



INDUSTRY AWARD 2013 - Best of

The Huber Verlag für Neue Medien GmbH recognises companies of high economic, social, technological and environmental value through the Industry Award. The expert jury awarded the rating BEST OF 2013 to CarSync-Log, VISPIRON GmbH's logbook management system. This makes it part of the leading group, selected from more than 1,200 submissions.



The „Phoenix“ business award of the city of Munich

The Phoenix Prize is awarded by the Munich Department of Labor and Economic Affairs together with the Munich Foreigners Council. The award distinguishes excellence in business performance, as well as societal and social commitment by immigrant businesses. The prize is unique in Germany. VISPIRON was selected as one of three winners.



Bayerischer Gründerpreis 2007

VISPIRON GmbH wins the Bayerischer Gründerpreis 2007 in the „Rising Star of the Year“. Prizes in the categories „Concept“, „Start-Up (Founders)“, „Rising Stars“, „Succession“ and „Life Work“ are awarded at the annual entrepreneurs' conference in Nuremburg. VISPIRON stood out with its strong but healthy growth, as well as with its excellent market potential.



Our future is secure

VISPIRON pursues the vision of ENGINEERING A BETTER WORLD – a world in which innovative solutions and services are developed in all sectors, to the long-term benefit of people and the environment.

In support of this effort, the Bavarian Ministry of Economic Affairs has granted VISPIRON research funds to develop concepts for advancing electromobility in cities. The group is collaborating with the world's biggest automotive manufacturers to create alternative methods of propulsion for the future.

VISPIRON employees are developing solutions for greener and more efficient mobility in the sphere of corporate car sharing.

VISPIRON has placed a special focus on renewable energies, investing our know-how into developing and marketing an efficient, easy-install mounting system for PV plants. This system has been implemented very successfully in numerous megawatt-class solar power projects worldwide. Finally,

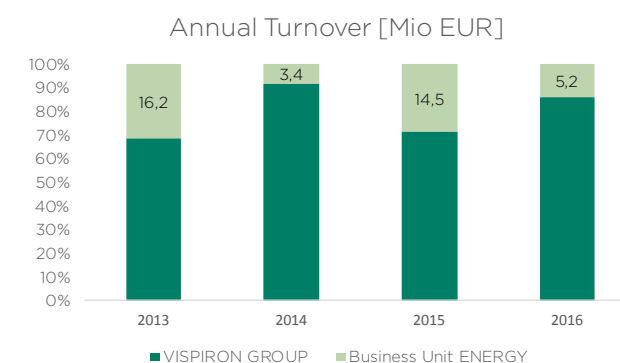
VISPIRON has implemented their expertise to engineer, finance and construct ground installed PV systems. Over 150 MWp of power have been engineered and installed to date. Some of the plants are operated by VISPIRON themselves. Meanwhile, all around the globe, VISPIRON is producing and servicing countless solar power plants in the context of maintenance and service contracts.

VISPIRON believes that the implementation of renewable energies is absolutely imperative and, accordingly, regional legal frameworks are being established in order to accommodate this development. This thinking is echoed by the climate agreement and is increasingly becoming a major basis for the rising use of renewable energy worldwide.

The Solar Business Unit ENERGY: experienced and competent

Over the past several years, to add to our own experience with project development and implementation, VISPIRON has also acquired experienced partners. Together with an established network, the company

is in a position to offer a lastingly reliable, efficient, innovative „all-inclusive-no-worries package“ for megawatt projects, setting them apart from the competition in large areas.



The know-how of our engineers, in combination with their long-term project experience at home and abroad, is precisely what makes VISPIRON ideally qualified to take on large projects which are heavily influenced by regional requirements. The current service portfolio was developed based on proven products and services with a powerful team.



Mutlanger Heide, 7 MWp



Bihar, 14 MWp

EPC for solar power plants

150 MWp worth of references worldwide

VISPIRON stands by their customers as a reliable, experienced partner and takes care of every relevant sub-project, from project planning to commissioning procedures:

Planning and Engineering

PV-plant layout and dimensioning (e.g. general layout plan, inverter dimensioning, LV/MV cable dimensioning, AC/DC cable plans, maintenance paths, fence, SCADA system MV-planning,)

- Project plan
- BOM / BOQ
- Soil tests, hydrologic reports, performance reports

Sourcing and purchasing

Sourcing of all relevant components and services, such as PV-panels, inverters,

transformers, mounting structure, cables, construction works

Projectmanagement and construction

- Local site management and construction management
- Installation of turnkey PV-plant (civil works, ramming, mounting structure, module installation, cabling AC/DC, inverter installation, fence, substation)

Organization of logistics

Grid connection and commissioning of PV-plant

Quality management and acceptance test

- Site inspection and testing
- Technical Due Diligence

Rent solar power plants

To provide clients with solar power at industrial scale. Our rental solution generates significant economic benefits without the need to make big upfront investments or raise long-term financing. The transfer of ownership at the end of the rental period is an option.

Potential customers:

- Project developers - "Ready to build" project and PPA is available but access to long-term financing is limited.

Benefit: Long-term earnings from the PPA

- Industrial power consumers - Industrial facilities with high power consumption and considerable power purchase costs.

Benefit: Long-term savings on operational costs

- User of diesel generators (GenSets): Typically, power off-takers in remote locations with high power consumption and relatively short term business focus (e.g. mining companies).

Benefit: Significant savings on operational costs



Maintenance and service

60 MWp worth of references in Germany

The constant energy yield of PV modules greatly depends on how they are maintained. VISPIRON has the necessary know-how to ensure the expected level of efficiency:

- 24/7 remote monitoring in the monitoring portal
- Regular on-site inspections
- Mechanical inspection, electrical check, maintenance of the medium voltage system
- Repair in case of damage
- Commercial management



Solar mounting system

100 MWp worth of references worldwide

VISPIRON develops sophisticated and proven mounting systems for ground installed plants which are implemented according to static requirements.

The PARS and PIRMIN systems were developed for different applications and regions and are suitable for use anywhere around the globe.



Wind power

For the wind turbine sector, VISPIRON has developed a network of competent partners with many years of experience to contribute. These partners assist the

company with wind turbine installation projects at every phase - project development, planning, implementation and all the way to wind turbine operation.



Storage power plants

VISPIRON is a technology and development company. We offer a solution for the efficient and cost-optimized storage of

renewable energies through the project development, design and implementation of pumped storage power plants.

Location	Performance	Fulfilled Tasks
Erfurt	1,0 MWp	EPC contractor
Hildburghausen	5,5 MWp	EPC contractor, Project development
Atella (Italy)	1,0 MWp	Mounting System
Minervino (Italy)	1,0 MWp	Mounting System
Plovdiv (Bulgaria)	0,7 MWp	Mounting System
Landsberg	1,1 MWp	EPC contractor, Project development
Wandersleben	1,8 MWp	EPC contractor, Project development
Seefichten	1,1 MWp	EPC contractor
Kaufering	3,5 MWp	EPC contractor
Würzburg	1,5 MWp	EPC contractor
Winterhafen	1,5 MWp	EPC contractor, Project development
Meißen	1,1 MWp	EPC contractor, Project development
Osterweddingen	1,7 MWp	EPC contractor, Project development
Gotha	1,8 MWp	EPC contractor, Project development
Tautenhain,	10,0 MWp	EPC contractor, Project development
Kampehl	2,8 MWp	EPC contractor, Project development
Schwäbisch Gmünd	7,0 MWp	EPC contractor
Perkam	1,8 MWp	EPC contractor, Project development
Gotha II	2,7 MWp	EPC contractor, Project development
Serba	0,6 MWp	EPC contractor, Project development
Hildburghausen II	0,6 MWp	EPC contractor, Project development
Neustadt II	5,2 MWp	EPC contractor, Project development
Kyritz	1,7 MWp	EPC contractor, Project development
Bangalore (India)	15 MWp	Engineering, procurement support and quality check
Bihar (India)	14 MWp	Engineering, procurement support and quality check
Guben	3,4 MWp	EPC contractor
Reichenbach	1,0 MWp (roof)	EPC contractor
Ipsheim	1,0 MWp	EPC contractor

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Bangalore, 15 MWp