



Comercial Photovoltaic Systems

- CUBE Contracting or CUBE Purchase
- Complete solutions for all energy issues
- Reduce costs & save CO₂



**CUBE
CONCEPTS**
INNOVATIVE ENERGY SOLUTIONS





Standard services

As a full-service partner, CUBE CONCEPTS takes on the entire planning and commissioning process through to grid operation, always acting in the interests of the client and from the perspective of an investor. The company implements turnkey systems in two models:

1. **CUBE Contracting:** No investment by the client is required
2. **CUBE Kauf:** This model offers a rapid return on investment (ROI)

CUBE CONCEPTS offers comprehensive project management including contracts, provides a comprehensive insurance concept and takes care of construction supervision. The company also ensures continuous quality management and takes care of the acceptance of the plant. With CUBE VISION® Monitoring, the system is permanently monitored to ensure maximum efficiency and reliability.

Flexible implementation of photovoltaic systems:

CUBE Purchase

CUBE CONCEPTS realizes your photovoltaic project as a full service.

Planning, quotations, construction, acceptance and grid connection are carried out according to the highest standards and DIN certification without any EPC effort on your part.

- ✓ The turnkey system is connected to the grid without any major effort on your part
- ✓ Return on investment in 6 - 8 years
- ✓ Double-digit returns
- ✓ Increases the value of the property
- ✓ Transparent and independent valuation
- ✓ Scalable services
- ✓ Easy access to expert knowledge & independent building supervision

CUBE Contracting

CUBE CONCEPTS takes over the investment, you produce low-priced solar power with your commercial photovoltaic system and your company reduces electricity costs.

Perfectly matched to your individual electricity consumption

- ✓ CUBE CONCEPTS takes over all tasks
- ✓ No risks or expenses
- ✓ No obligation to purchase PV electricity
- ✓ Plannable electricity cost savings of up to 30%
- ✓ Guarantees of origin for green electricity remain with you
- ✓ Subordinate easement and open-book calculation



Roof photovoltaics

Highly efficient & ecologically sustainable

Large commercial and industrial roofs in particular are ideal for generating electricity economically and ecologically using solar systems, as they are usually unshaded and the energy produced is consumed directly on site. They are highly efficient thanks to optimum mounting and also require only a technical building permit in Germany, not a conventional one.

The photovoltaic system produces green and inexpensive electricity on a permanent basis and significantly reduces a company's electricity costs. They also reduce the carbon footprint, ensure constant electricity prices for a company in the long term and increase the value of the property.

Facts

- Almost any roof shape is suitable for solar systems.
- Energy generation where it is consumed.
- Possible in Germany without a traditional building permit.
- Optimum solar yield thanks to mounting, perfect adjustment and rear ventilation
- Easy installation and maintenance
- Already mandatory in many regions in Germany for new builds or roof renovations
- Increases property value and, with CUBE CONCEPTS, does not require roof perforation.





Solar parcs

Utilize energy-saving potential now

With photovoltaic systems on open spaces, companies can use their unused property extremely economically and profitably. This not only saves energy costs and reduces the carbon footprint, but also ensures sustainable climate and environmental protection. Studies have shown that these highly efficient PV systems are also very worthwhile from an ecological perspective, as they provide habitats and retreats for plants and animals and support the biological regeneration of the soil.

Facts:

- Existing space potential is used optimally
- The property value is increased
- Highly efficient due to perfect adjustment of the modules
- Solar parks are proven to be extremely ecological
- Easy installation and low cost maintenance
- CUBE CONCEPTS takes over the bureaucratic effort with the planning level of the communal, county or regional planning level
- Visible statement for greater sustainability of the company





Solar-Carports

Economic dual use of space

By installing photovoltaic systems on carports, companies can not only protect their vehicle fleet from the weather, but also generate solar power at the same time. They are the perfect complement or alternative to roof-mounted or ground-mounted systems.

The carports from CUBE CONCEPTS are freely scalable in terms of height and surface area and can also provide space for trucks or commercial vehicles. Roofs for outdoor warehouses or loading ramps are also conceivable. As a result, companies increase their efficiency and profitability, save costs, reduce CO₂ emissions and can use the electricity generated directly as green fuel for the company fleet or feed it into the grid. PV carports are therefore an elegant and economical solution.

Facts

- Customized modular solutions
- Free scalable in height and area
- Support spacing up to 20 meters
- Flexible spectrum of use from passenger car to commercial vehicle
- Easier access for buses or trucks
- Customized substructures
- Reduced number of column piers and foundations allow for simple and inexpensive construction
- Short assembly times due to high degree of prefabrication reduce downtimes or closures during the construction phase
- High energy yields thanks to perfectly plannable positioning



Fotos: Reference project in Schwäbisch-Hall



Fotos: Reference project in Holzwickede



Battery storage systems

Multi-use to reduce electricity costs

Energy-intensive companies can significantly reduce their electricity costs and grid charges by using battery storage. This is possible through peak shaving, load shifting and intelligent load management. Grid fees can also be reduced in the cases of atypical grid usage or constant consumption values, for example.

Battery storage systems are also suitable for optimizing self-consumption of self-generated energy, stabilizing the company's own grid or as an additional source of income on the regulating energy market in order to increase public grid stability.

In short, they offer companies exactly the flexibility that the energy transition demands and usually pay for themselves after just 3-5 years. Contracting or leasing models are also possible

Facts

- Reduces grid fees through peak or load shifting and thus lowers electricity prices
- Increases the self-consumption rate of PV electricity and reduces the need to purchase additional electricity or CO₂ certificates
- Reduces electricity procurement costs through arbitrage transactions on the fluctuating electricity market
- Marketing of storage capacities on the regulating power market to stabilize the electricity grids
- Additional possible applications: As emergency or backup power, to stabilize the internal power grid or to optimize charging processes for e-mobility
- The latest battery technologies are extremely durable and allow up to 9,000 full cycles





IEPD™

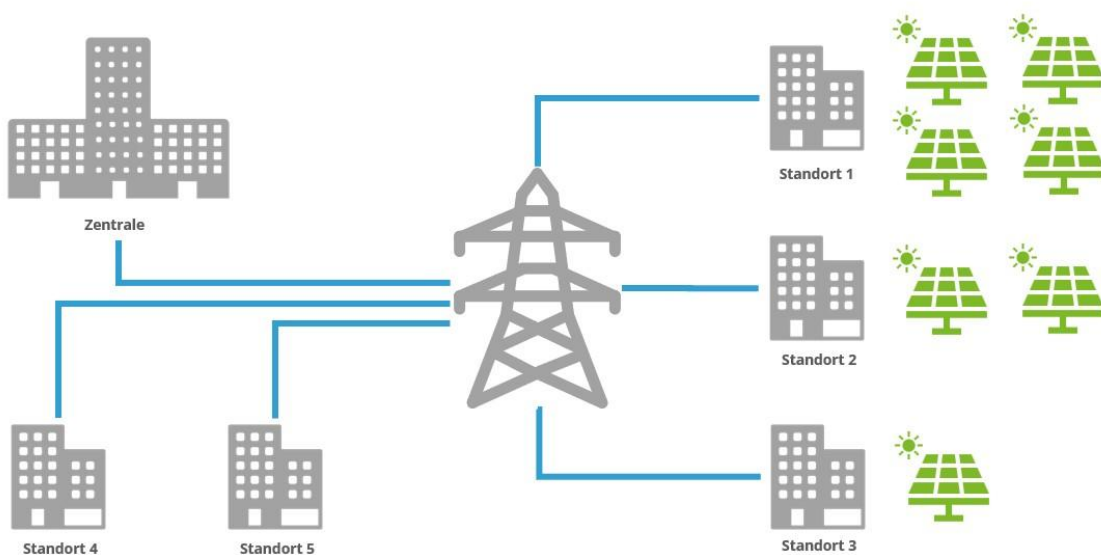
Power supply across locations

Intelligent excess power distribution (IEPD™) enables companies to use their PV power across multiple locations and are not forced to sell the surplus environmentally friendly energy from their own photovoltaic system to third parties.

Intelligent excess power distribution ensures that companies or groups with multiple sites can consume up to 100% of their own PV power themselves and that their PV systems are always operated at maximum efficiency. Optimizing the feed-in is an additional service that CUBE CONCEPTS offers together with its partner network.

Facts

- Use your PV power across sites through Intelligent excess power distribution (IEPD™).
- IEPD™ ensures that multi-site companies can consume up to 100% of their PV power themselves and that your PV system is always operated at maximum efficiency.
- Thanks to IEPD™, even sites that consume little electricity supply solar power across the group
- Use all areas of all locations for low-cost and environmentally friendly solar power generation
- Reduce residual electricity purchases, Group-wide CO₂ emissions, and avoid expensive CO₂ certificate purchases.



CUBE EfficiencyUnit

Comprehensive, Cost-effective & Future-proof

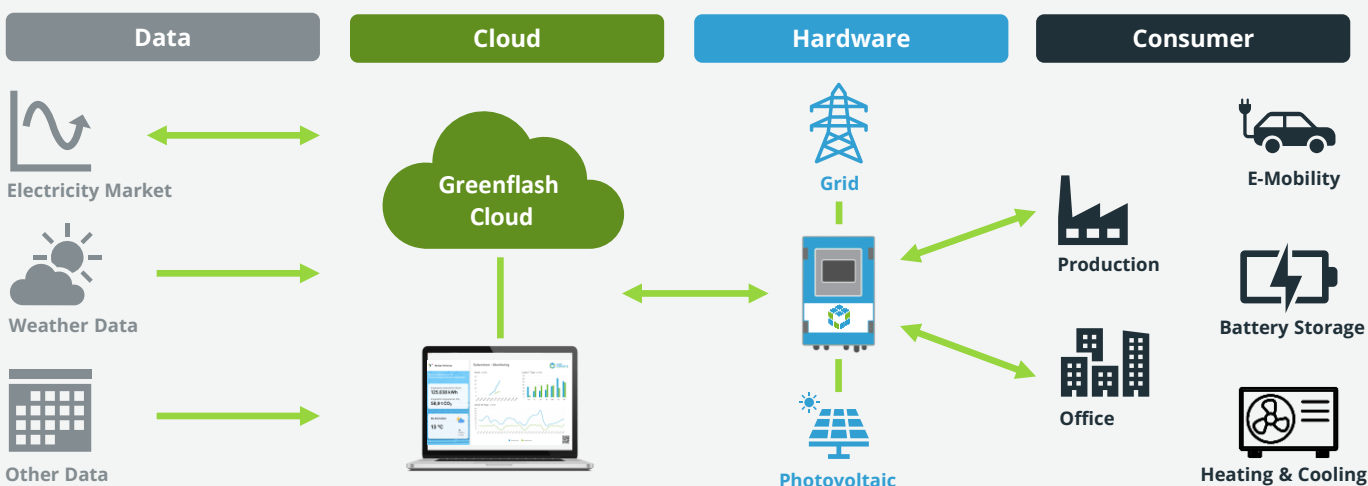
The CUBE EfficiencyUnit is an advanced energy management system that helps companies achieve energy-efficient and cost-effective operations. It analyzes real-time data, such as electricity prices, weather, and consumption, to optimize energy use, maximize self-consumption, and reduce peak loads. It integrates key infrastructure components like grid connections, photovoltaic systems, battery storage, and heating, ensuring the use of the most cost-effective energy sources through automated, dynamic control.

A cloud-based system processes all data in real time, offering companies a clear overview of energy flows and flexible control options. An on-site controller ensures efficient management of energy consumers, such as machinery, EV charging systems, and heating, to support seamless and sustainable energy operations.

With the CUBE EfficiencyUnit, energy supply becomes not only efficient but also economical and sustainable. Companies benefit from a flexible, intelligent solution that helps them achieve their energy goals while simultaneously reducing costs.

Cost reduction through:

- Holistic management of all energy sources and consumers with live reconciliation of all cost factors
- Real-time optimization of grid usage based on current electricity market prices
- Maximization of PV self-consumption based on weather data, consumption, and forecasts
- Automated peak load reduction
- Efficient control of grid usage through direct connection to the electricity market
- Intelligent management of battery storage with live integration into primary and secondary energy balancing markets
- Live monitoring and data analyses
- Continuous profitability analyses with reporting functionality
- Optimization of charging currents for the corporate EV fleet
- Automated control of energy carriers for all heating systems





CUBE VISION®

Photovoltaic Monitoring

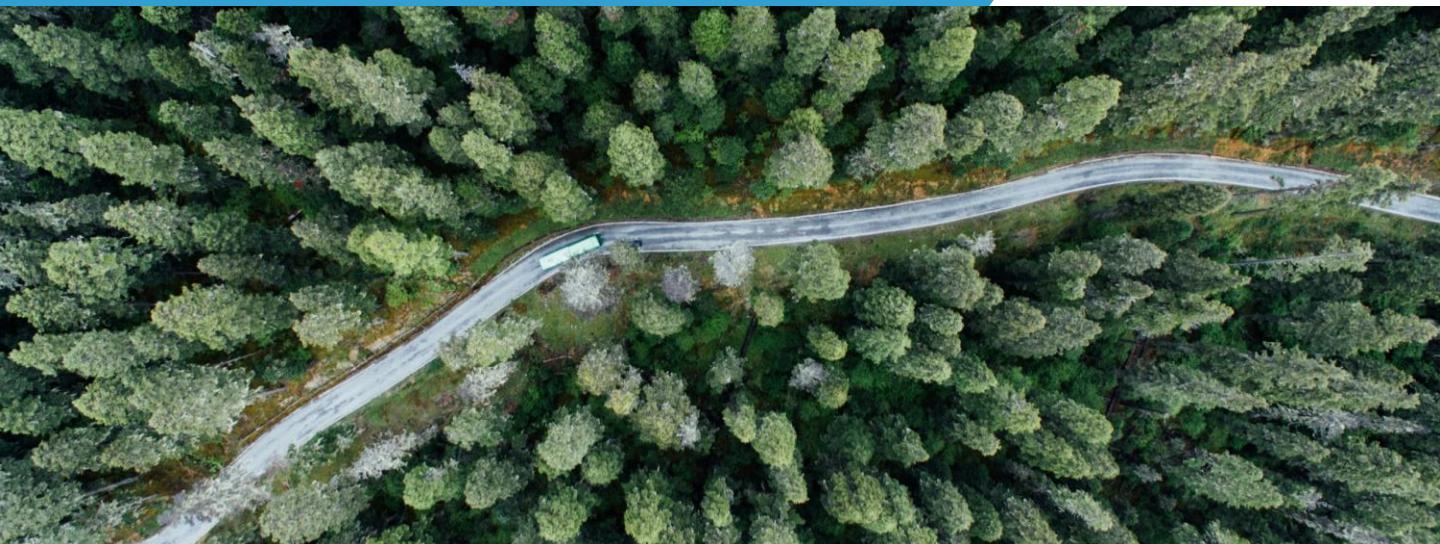
- Making sustainability visible with CUBE VISION®
- The dashboard for your PV system in your own CI
- One platform for everything: data cockpit, direct marketing and operational management via the cloud
- Direct access to all components, contracts, reports and data Live PV data as content for your marketing
- Automatic reporting to defined recipients
- Reports for investors and stakeholders or as an attachment for annual and sustainability reports
- Maintenance module with ticket system Group-wide monitoring thanks to cross-location connection of existing and old PV systems



Modular photovoltaic marketing

More sales with a clear strategy

- Image boost, higher brand reputation and increased employer attractiveness
- Your marketing continues to focus on the core business
- PV marketing know-how in full service or modular: From concepts to implementation
- Individual solutions in the areas of public relations, digital marketing & event management
- Marketing packages:
 - Complete (free of charge)
 - Premium
 - Enterprise
 - Individual Package



Economic benefits

- Grid fees rose by 27% in 2023 and are expected to rise by a further 60% in 2024.
- Legislation by the European Union and the member states will contribute to rising energy costs through additional increases in taxes, fees and levies.
- Electricity privileges are being cut, grid costs are rising and demand for electricity is increasing due to the spread of electric vehicles, heat pumps and the increasing use of renewable energy sources.
- Every kilowatt hour generated by your PV system reduces the need for CO₂ certificates.



Why you should take action now

- Prices for PV modules have reached a historic low.
- Stable electricity prices offer long-term planning security.
- Reducing dependency on purchased electricity increases a company's resilience to future energy regulations, taxes and levies.
- The transition to sustainable energy requires the decentralization of energy supply.
- Customers, consumers, the public and regulators are increasingly demanding sustainability and environmental responsibility.



Complete solutions for all energy issues

As a PV architect, CUBE CONCEPTS is completely independent of electricity providers, suppliers or solar installers. Therefore, we can always guarantee you the best price for your new commercial photovoltaic systems and support you as a valuable full service partner from the very first consultation.

Flexibility

Through contracting & purchase
Contracting: no investment and no economic risk
Purchase: High returns & fast ROI

Full service

As a PV architect, we take care of the entire process, from planning and construction to grid connection and monitoring.

Bank conform

We use established planning and calculation tools to develop your photovoltaic project, including all possible funding.

Maximum economic

We guarantee the best price thanks to an independent selection of solar installers based on a scoring analysis.

Experienced

Our photovoltaic experts are experienced in the industry and provide neutral advice from the first contact.

Security & transparency

We develop EEG-compliant contracts, create proven framework contracts and take out the necessary insurance policies.

Holistic energy concepts for success

Thanks to its strong partner network, CUBE CONCEPTS perfectly exploits the full potential of all innovative concepts and makes its clients fit for the future in all energy issues.

Advantage through networked expertise

- Rapid knowledge transfer on market trends, innovations and legislation in the energy sector
- Close cooperation with experienced energy and consulting experts
- Synergies through the strengths of our partner network in product development





360° service from a strong partner network

E-Mobility Consulting

- Analysis & target definition of the fleet
- E-mobility concept incl. funding advice
- Support with implementation

ESG strategy consulting

- Long & short-term consulting
- Mapping of ESG criteria & implementation
- Holistic support within the legal standards incl. taxonomy, CSRD etc.

Energy efficiency conception

- Analysis & immediate action
- Preparing for audits
- Support with implementation of certifications

Battery storage & Load Shifting

- Consulting & provider comparison
- Calculation, financing & profitability analyses
- Connection & implementation

Charging infrastructure

- Development & implementation of charging infrastructures for companies
- Conception & connection to PV systems or other grids

Conception offsite-PPAs

- Conception & mediation incl. balancing group management & HKN management
- Residual, balancing & surplus volume management

Load peak management

- Identification of load peaks
- Analysis & recommendations
- Implementation of elect. controllers & storage

Funding

- Full consultation on funding in all energy sectors, such as e-mobility, storage or all PV projects
- Germany and Europe-wide project support








Non-binding consultation with energy experts


Our energy experts specialize in the diverse requirements and funding opportunities of corporations, companies and businesses. By working closely with our network partners, we also pool our wide-ranging expertise - so that we can guarantee you expert advice at every stage of your project.

CUBE CONCEPTS GMBH
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