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<b>Document:</b> IBEX GLOBAL	<b>Edition:</b> 1	<b>Page:</b> 1   6
<b>Prepared by:</b> 10X GC®	<b>Approved by:</b> IBEX GLOBAL	<b>Date:</b> 2025-09-02

## THE CHALLENGE OF THE ENERGY TRANSITION

<b>Problem</b>	Rising energy costs, grid fluctuations, global necessity for decarbonization.
<b>Your specific challenges</b>	Maximum integration of renewable energy, ensuring grid stability, optimization of self consumption.
<b>We offer innovative solutions to effectively overcome these challenges</b>	<ul style="list-style-type: none"> <li>How can you achieve maximum integration of renewable energy into your existing infrastructure?</li> <li>How can you ensure grid stability and minimize the risk of outages or bottlenecks?</li> <li>How can you optimize your self-consumption while significantly reducing your energy costs?</li> <li>We offer innovative, integrated solutions that not only address these challenges, but also empower you to actively shape the energy transition and gain competitive advantages from it</li> </ul>

## IBEX GLOBAL – YOUR ENERGY PARTNER

<b>Our Vision</b>	The future of energy lies in flexible, connected, and efficient solutions. IBEX GLOBAL integrates cutting-edge battery storage systems into intelligent overall concepts, specifically designed to optimize solar parks, ensuring a secure, climate-friendly, and future-proof energy supply.
<b>Our History &amp; Expertise</b>	Since 1989, IBEX GLOBAL has been active in the fields of energy and digitalization. This long-standing experience makes us your skilled and reliable partner.
<b>Our Guiding Principle</b>	"Because perfection matters to us" – We develop and implement intelligent systems that go beyond conventional energy monitoring tools, enabling proactive control.
<b>Core Values</b>	<p><b>Simple</b> Intuitive operation, seamless integration.</p> <p><b>Faster</b> Real-time analysis, rapid optimization processes, quick response to changes.</p>

## IBEX GLOBAL – OUR CORE COMPETENCIES AND SERVICES

<b>Specialization</b>	IBEX GLOBAL is your dedicated partner for advanced energy and digitalization solutions. We help companies digitize, optimize, and sustainably shape their energy processes.
<b>Comprehensive Portfolio</b>	We provide state-of-the-art, future-oriented battery storage solutions as well as intelligent energy management software.
<b>Your Advantage with IBEX GLOBAL</b>	<p><b>Full-Service from a Single Source</b> System delivery, installation &amp; commissioning, maintenance &amp; technical support, monitoring &amp; remote supervision, customized planning &amp; financing, from A to Z.</p> <p><b>Experienced PV Architect</b> Extensive expertise in the planning and implementation of PV systems and storage solutions.</p>

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### The Intelligent Heart of Your Energy Management

Our Digital Operation Platform is a comprehensive and central control unit for your entire energy management system. It integrates all relevant data points and energy assets into a single platform.

Core Functions	
<b>Data Collection</b>	Captures precise real-time data from all energy sources and consumers (photovoltaics, battery storage, loads, grid supply, etc.).
<b>Analysis</b>	Converts raw data into valuable insights through intelligent algorithms and machine learning.
<b>Optimization</b>	Uses these insights to automatically and continuously optimize energy flows, based on cost, efficiency, and sustainability.
<b>Control</b>	Provides precise and automated control of your energy assets in real time.

Benefits	
<b>Real-Time Monitoring</b>	Captures precise real-time data from all energy sources and consumers (photovoltaics, battery storage, loads, grid supply, etc.).
<b>Accurate Forecasts</b>	Converts raw data into valuable insights through intelligent algorithms and machine learning.
<b>Significant Efficiency Gains</b>	Uses these insights to automatically and continuously optimize energy flows, based on cost, efficiency, and sustainability.

### INTELLIGENT AND SCALABLE ENERGY MANAGEMENT YOUR COMPREHENSIVE SOLUTION PORTFOLIO

We offer intelligent and highly scalable energy management designed to meet diverse and complex requirements. Our solution is not limited to a single type of energy but manages all relevant flows.

Integration of All Energy Flows	
<b>Our platform enables seamless management and optimization of all energy flows within a single system</b>	<b>DC (Direct Current)</b> Directly from PV systems or battery storage. <b>AC (Alternating Current)</b> For grid supply and internal distribution. <b>Heat Flow</b> Integration of heat storage and heat generation units. <b>H<sub>2</sub> (Hydrogen Flow)</b> Management of electrolyzers, hydrogen storage, and fuel cells. <b>Water Flow</b> For energy-intensive water processes or waste heat utilization. <b>CO<sub>2</sub> Flow</b> In connection with Power-to-X applications or CO <sub>2</sub> capture.
<b>Flexibility &amp; Future Readiness</b>	Our solution grows with your needs and adapts flexibly to new technologies and changing conditions. It is future-proof and investment-secure.

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## KEY COMPONENT

Forecasting Service	
Forecasting Service	Provides precise, AI-powered forecasts for key parameters such as electricity prices, weather data (solar irradiation, wind), and your own energy consumption.
Benefit	Enables predictive planning and optimized operating strategies to take advantage of favorable market conditions and avoid bottlenecks.

Optimization Service	
Function	Uses advanced algorithms to optimize energy flows and the operation of your systems in real time.
Benefit	Maximizes efficiency, reduces operating costs, and increases the profitability of your entire energy infrastructure (e.g., optimal charging and discharging strategies for battery storage, load shifting).

Control Service	
Function	Enables automated and precise control of your energy systems and consumers based on optimization results.
Benefit	Ensures smooth and efficient interaction between all components without manual intervention, minimizing errors and reducing response times.

Monitoring & Visualization	
Function	Provides intuitive dashboards and comprehensive reports for real-time monitoring of all relevant KPIs (Key Performance Indicators).
Benefit	Delivers full transparency of your energy flows and costs, supports informed decision making, and identifies potential for further optimization.

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## VERSATILE APPLICATION EXAMPLES OF THE PLATFORM - YOUR ADDED VALUE IN EVERY INDUSTRY

Industry & Commerce	
<b>Self-Consumption Optimization</b>	Maximize the use of self-generated solar power to reduce costly grid consumption.
<b>Peak Load Management</b>	Actively manage consumption peaks to avoid high grid fees and relieve grid infrastructure.
<b>Energy Cost Reduction</b>	Comprehensive optimization to lower overall energy costs and increase competitiveness.

Smart Grids & Districts	
<b>Grid Stability</b>	Active support of grid stability through intelligent feed-in and consumption management.
<b>Frequency Control</b>	Provision of ancillary services for grid operators to stabilize grid frequency.
<b>Optimized Energy Sharing</b>	Intelligent distribution and utilization of energy within complex building infrastructures or urban districts.

E-Mobility	
<b>Intelligent Integration</b>	Seamless integration of charging infrastructure for electric vehicles.
<b>Charging Management</b>	Dynamic charging management that optimizes charging times, prevents grid overload, and prioritizes the use of renewable energy.

## IBEX GLOBAL – NEXT-GENERATION ENERGY STORAGE

<b>Battery Storage Specialist</b>	IBEX GLOBAL provides state-of-the-art, future-oriented battery storage solutions.
<b>Role of Battery Storage</b>	A key technology for ensuring flexibility and stability in the future energy landscape.
<b>Why Battery Storage is Essential for Solar Parks</b>	<p><b>Maximum Use of Renewable Energy</b> Stores excess solar energy for demand coverage and maximizes self-consumption.</p> <p><b>Grid Stability &amp; Supply Security</b> Essential for frequency regulation, contributing to the stability and reliability of the power grid.</p> <p><b>Financial Benefits</b> Reduces energy costs and generates revenue through participation in the balancing energy market.</p>
<b>Our Technology</b>	Robust and efficient systems such as IBEX Global 2 Plus Grid Scale (gross capacity of 3.178 MWh [20ft] or 6.356 MWh [40ft], efficiency >98%, power output up to 2.6 MW, automotive-grade NMC batteries with 800 V, lifespan 15–20 years, low-maintenance APS-ES-Series inverters). The use of near-new vehicle batteries ensures resource efficiency and sustainability.

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## FLEXIBLE APPLICATIONS OF BATTERY STORAGE YOUR ENERGY STORAGE FOR DIVERSE NEEDS

<b>Energy Consumption Optimization</b>	Ideal for large consumers, industrial operations, and commercial facilities.
<b>Grid Services</b>	Frequency regulation (primary, secondary, tertiary reserves), reactive power compensation.
<b>Charging Infrastructure</b>	Seamless integration into e-mobility concepts and the development of fast-charging parks.
<b>Backup Power Supply</b>	Ensures energy availability during grid outages, safeguarding operational and production security.
<b>Ready for Green Hydrogen</b>	Integration with electrolyzers and H <sub>2</sub> storage for CO <sub>2</sub> -free energy cycles.

## YOUR ADVANTAGE WITH IBEX GLOBAL – LONG TERM ENERGY INDEPENDENCE

<b>Clear Financial Benefits</b>	<ul style="list-style-type: none"> <li>Reduce your energy costs and operating expenses through intelligent optimization.</li> <li>Lower demand for CO<sub>2</sub> certificates creates additional economic advantages.</li> </ul>
<b>Maximum Autonomy</b>	<ul style="list-style-type: none"> <li>Historically low PV prices combined with our battery storage systems ensure maximum independence.</li> <li>Become more resilient to market fluctuations and political uncertainties.</li> </ul>

## SMART ENERGY FROM A SINGLE SOURCE – IBEX GLOBAL INTEGRATION & INTERACTION

<b>Synergy</b>	The leading energy management software (in cooperation with VFK) meets the innovative battery storage solutions from IBEX GLOBAL.
<b>Optimal Control</b>	Intelligent software manages and orchestrates the powerful hardware of IBEX GLOBAL.
<b>Seamless Total Solution</b>	Goes far beyond the sum of its individual parts.
<b>Results &amp; Benefits</b>	<p><b>Maximum Efficiency</b> Minimize energy losses and maximize overall performance.</p> <p><b>Significant Cost Savings</b> Make precise decisions in energy purchasing and sales while optimizing self-consumption.</p> <p><b>Highest Autonomy</b> Achieve maximum independence from external energy sources.</p>

## YOUR PROJECT IN FOCUS: TAILOR-MADE SOLUTIONS FROM IBEX GLOBAL

<b>Customer-Oriented Approach</b>	Every energy project is unique. We conduct a detailed analysis of your specific energy needs and infrastructure conditions.
<b>Individual Solutions</b>	Development of tailor-made systems perfectly aligned with your requirements, no standard products.
<b>Open Dialogue</b>	Share your challenges and goals with us to develop the optimal energy strategy.

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## EXPERTISE AT IBEX GLOBAL

<b>Competencies</b>	Experienced team of highly qualified energy experts, software developers, and engineers.
<b>Market Understanding</b>	Deep knowledge of energy markets, regulatory frameworks, and the latest technologies.
<b>Innovative Strength</b>	Continuous research and development for cutting-edge solutions, including partnerships with research institutions (Fraunhofer) and industry.
<b>Interdisciplinary Approach</b>	Holistic, optimally coordinated solutions that are ready for deployment worldwide.

## IBEX GLOBAL'S COMMITMENT TO YOUR SAFETY

<b>Certifications and Standards</b>	Compliance with the highest quality and safety standards.
<b>Long-Term Support and Maintenance</b>	Dedicated technical support and comprehensive maintenance services.
<b>Proven Technology</b>	Products are based on extensively tested and reliable technology.

## IBEX GLOBAL SHAPES A GREEN FUTURE

<b>Active Contribution to Climate Protection</b>	Our solutions make a direct and significant contribution to the energy transition and the reduction of CO <sub>2</sub> emissions by maximizing the integration and efficiency of renewable energy.
<b>Resource Conservation</b>	Through the innovative use of technologies such as near-new vehicle batteries (second-life batteries), we promote the sustainable use of resources.
<b>Social and Environmental Responsibility</b>	Sustainability is not just a product feature but a deeply rooted corporate philosophy at IBEX GLOBAL.
<b>Future Orientation</b>	Investments in our solutions are investments in a more sustainable and livable future.

## SHAPE YOUR ENERGY FUTURE WITH IBEX GLOBAL!

<b>Benefit from Clear Financial Advantages</b>	Reduce your energy costs, optimize profitability, and secure long-term competitive advantages.
<b>Achieve Maximum Independence</b>	Become more resilient to market fluctuations and safeguard your energy supply through the combination of PV and storage.
<b>Concrete Offer (Call to Action)</b>	Let us analyze your project together and develop a tailor-made solution precisely aligned with your needs.

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