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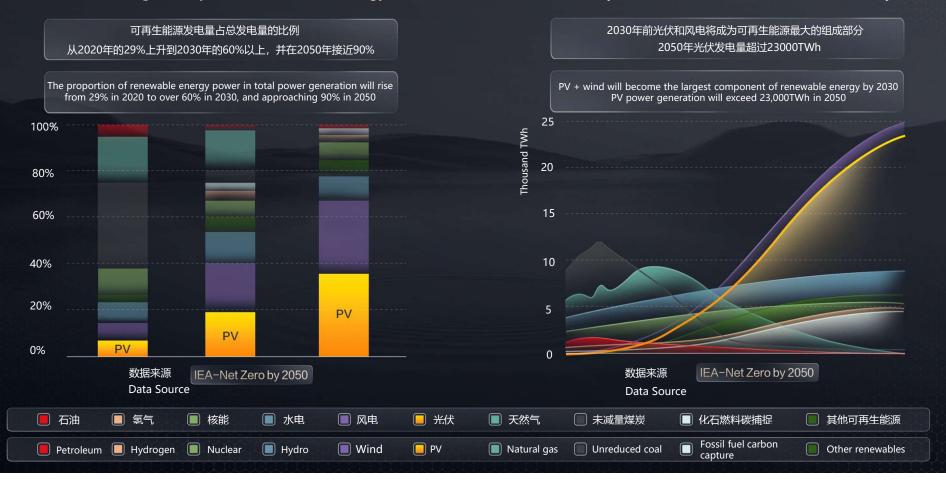


能源结构逐步调整 光伏需求高速增长

Demand for PV Rises Rapidly with the Gradual Reform of the Energy Structure

光伏逐步成为能源主体 | 市场推动产业降本增效

Photovoltaics gradually become the main energy source | Market drives industry to reduce costs and increase efficiency





行业洞察-水泥行业降碳之路

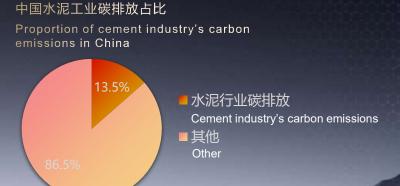
INDUSTRY INSIGHT - CARBON REDUCTION OF CEMENT INDUSTRY

国家发展改革委等四部门联合发布《高耗能行业重点领域节能降碳改造升级实施指南(2022年版)》(以下简称《指南》),明确了钢铁、有色金属冶炼、水泥、炼油等17个高耗能行业节能降碳改造升级的工作方向和目标,旨在指导各有关方面科学有序开展重点领域节能降碳改造升级工作。

The National Development and Reform Commission and three other departments jointly released the *Guidelines for Energy Conservation and Carbon Reduction Transformation and Upgrading in Key Areas of High Energy Consumption Industries (2022 Edition)* (hereinafter referred to as the *Guidelines*), which clearly outline the work direction and goals for energy conservation and carbon reduction transformation and upgrading in 17 high-energy-consuming industries such as steel, non-ferrous metal smelting, cement, and refining. The aim is to guide relevant parties to scientifically and orderly carry out energy conservation and carbon reduction transformation and upgrading work in key areas.

Proportion of cement industry's carbon emissions in the world 7% ■ 水泥行业碳排放 Cement industry's carbon emissions ■ 其他 Other

世界水泥工业碳排放占比





善用太阳光芒 创造绿能世界

TO MAKE THE BEST OF SOLAR **ENERGY TO BUILT A GREEN WORLD**

隆基成立于2000年

致力于成为全球领先的太阳能科技公司

Founded in 2000, LONGi aspires to be the most compelling solar technology company in the world

隆基聚焦科技创新

构建单晶硅片、电池组件、工商业分布式解决方案、绿色能源解决方案、氢能装备 五大业务板块,形成支撑全球零碳发展的"绿电"+"绿氢"产品和解决方案。

LONGi focuses on technological innovation and endeavors to build its business in five areas—monocrystalline wafers, cells and modules, industrial and commercial PV solutions, power station solutions, and hydrogen energy systems. It has grown into a Green Power + Green Hydrogen product and solution provider that supports the global zero carbon drive.

4.98^{100M} 107.51^{100M} 56.87_%

2023年营业收入

2023年归母净利润

2023年资产负债率

Operating revenue in 2023

Net profit attributable to parent company in 2023 Asset-liability ratio in 2023

注:数据来源于2023年年报

Data source: 2023 annual report



中国工商业 绿色能源综合解决方案专家

An Expert in Comprehensive Green Energy Solutions for Industrial and Commercial Applications

全周期能源定制 一站式解决方案

Lifecycle Energy Customization

One-stop Solutions

隆基绿能 - 中国政企地区部

China Government and Enterprises Region, LONGi

LONG

Project Development

聚焦三大客户群体,提供三大合作模式

Three Cooperation Modes for Three Major Customer Groups

// 定制一站式中国工商业绿色解决方案 ***

Customized one-stop green solutions for China's industrial and commercial applications



工商业主 **()** Industrial and Commercial Owners

聚焦"工商业主、投资方、EPC"三大客户需求,利用差异化产品与服务,实现客户价值最大化

Focus on the needs of "industrial and commercial owners, investors and EPC", and offer them differentiated products and services to maximize customer value



差异化优势

Differentiated Advantages

定制差异化产品

Custom-made Differentiated Products

性能巅峰打造更具价值产品 满足差异化客户需求

Products with peak performance and greater value

Meeting differentiated customer needs



科学家 Scientist



双面双玻 Bifacial Glass-glass



黑曜石 Obsidian



隆 顶 LONGi Roof



隆 锦 LONGi Bright



隆行 LONGi Park

铁三角优质服务

Quality Services from Customer-centric 3 (CC3)

Focusing on three major customer groups' needs

聚焦三大客群需求

Established a CC3 mode of AR + FR + SR

形成AR+FR+SR铁三角模式

专属商务服务

Exclusive commercial services



专属产品 交付服务

Exclusive product delivery services

专属产品 方案服务

Exclusive product solution services



分布式工商业定制组件 Customized Modules for Distributed Industrial and Commercial Scenarios

满足差异化客户需求

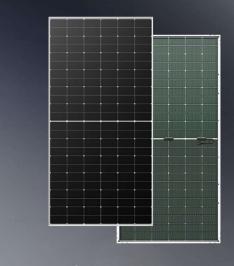
Satisfy Differentiated Customer Demands



Hi-MO X6 科学家

极致高效HPBC+电池 效率巅峰 超高收益

Extremely efficient HPBC+ cells Peak efficiency for super high returns



Hi-MO X6 双面双玻

Bifacial Glass-glass

分布式双面场景最优之选 耐湿热 | 高增益 | 高可靠

The best choice for distributed bifacial scenarios Anti-Humidity & Heat | High Power Gain | High Reliability



Ultra Black

高效HPBC电池 纯粹黑色 极致优雅

High efficiency HPBC cells Pure Black | Extreme Elegance



隆基BIPV产品家族

LONGI BIPV Product Series

隆基隆锦 LONGi Bright

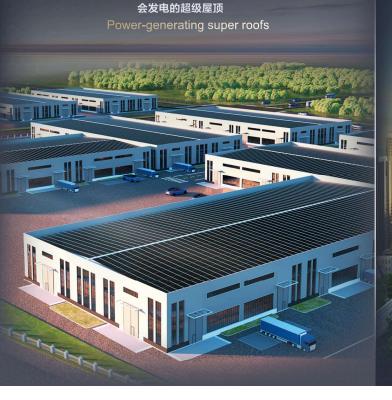
会发电的彩色建材 Colorful building materials that generate power





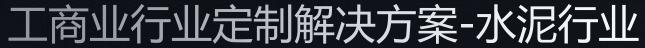
隆基隆行 LONGi Park

智能光储充一体化解决方案 Intelligent power generationstorage-charging integrated solution



隆基隆顶 LONGI Roof





Customized Solutions for Industrial and Commercial Scenarios - Cement Industry

水泥建材是行业定制的典型

Cement & building materials are typical examples of industry customization

- 2022年全国水泥行业消费电能约2000亿度 In 2022, China's cement industry consumed approximately 200 billion kWh of electricity
- 目前水泥行业大约 9%的碳 排放来自于外购电力,而国内电力结构上火电占据电力供给的 71%。将电力从外购转向可再生能源将减少大量排放。

About 9% of carbon emissions in the cement industry come from outsourced electricity, while thermal power accounts for 71% of the domestic electricity supply. Shifting electricity supply from outsourcing to renewable energy will significant reduce carbon emissions.



水泥企业厂房形式多样,厂区厂貌差异很大,对项目设计、建设提出了较高的要求。不规范的设计施工未考虑屋面系统的技术特点和功能要求,往往会给屋面和电站造成巨大的安全隐患。

屋面场景复杂 Complicated roof scenarios

Cement plants feature diverse building structures and varying premises, demanding precise project design and construction. Neglecting the technical aspects of roofing systems during construction poses significant safety risks to roofs and power stations.

用电负荷大

Large electrical load

Cement plants demand a lot of electricity, but their limited roof space means solar power alone can't meet production needs.



水泥企业生产用电负荷大,厂区可利用屋顶面积小,光伏所发电力远远不能满足生产需求。

我国水泥行业 各工序碳排放占比

Proportion of carbon emissions from each process of China's cement industry

■电力消耗

Power consumption

■燃料消耗

Fuel consumption

■石灰石煅烧

limestone calcination

粉尘污染物多

Numerous dust pollutants

In cement plants, rooftops gather pollutants like cement dust, which harden with moisture, making them tough to clean. This buildup affects power generation and module lifespan.

水泥企业厂房屋面水泥粉尘等污染物较多,遇潮凝结固化,长时间积聚难以清除影响发电量和组件寿命。



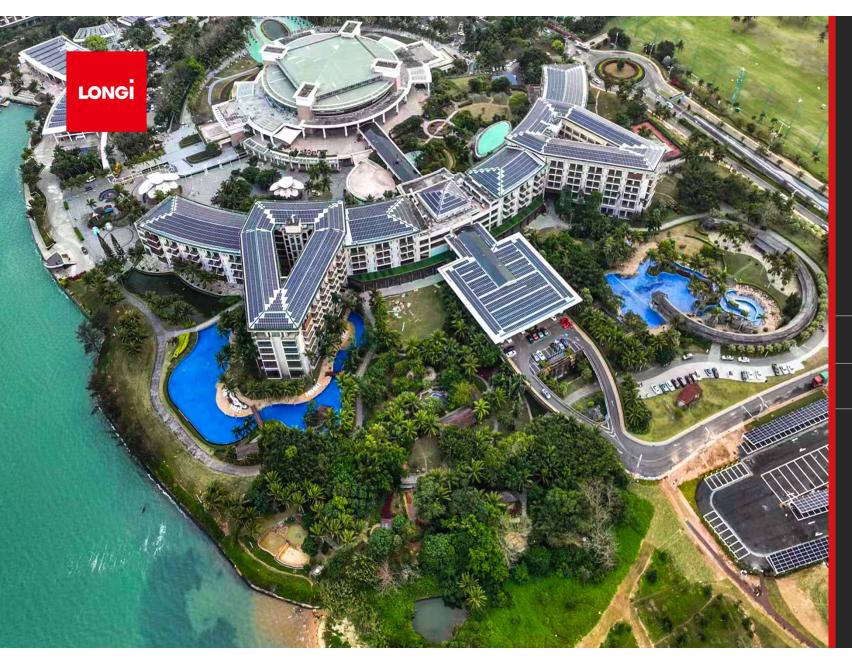
通过分场景与核心产品及服务匹配

Match Core Products and Services with Fitting Scenarios

综合多方因素定制化设计最具经济性方案,实现更优度电成本,助力水泥行业节能降碳

Integrate multiple factors to customize the most economical solution to achieve better LCOE and help the cement industry save energy and reduce carbon emissions.

应用场景 Application scenarios	LONGi 解决方案 LONGi Solutions	LONGi 产品 LONGi Products	LONGi 服务严选 LONGi Premium Services
存量金属/水泥屋面 Existing metal/cement roofs	BAPV解决方案 BAPV Solutions	Hi-MO X6	全生命周期管控 121项服务承诺 10项全生命周期服务 Full life cycle management and control 121 Service Commitments 10 Lifecycle Services
新建或翻新金属屋面 New/renovated metal roofs 弧形金属屋面	隆顶BIPV解决方案 LONGI ROOF Solutions 隆锦BIPV解决方案	LONGI PE顶	Hi-MO X6 延保服务包 产品延保 定期巡检 远程监控 运行分析 Hi-MO X6 Extended Warranty Package Extended Warranty Regular Inspection Remote Monitoring Operation Analysis
Curved metal roofs 建筑立面 Building facades 园区车位	LONGi BRIGHT Solutions 隆行BIPV解决方案	LONGI 隆锦	金钥匙项目管理服务包 三大模块 七大业务环节 42个客户触点 Golden Key Project Management Package 3 Major Components 7 Business Links 42 Customer Touch Points
Parking spaces in parks	LONGi PARK Solutions	LONGI 隆行 PARK 隆行	金融服务包 Financial Services Package



地标建筑 Landmark building 亚洲及全球规模最大的论坛之一 One of the largest forums in Asia and the world

博鳌亚洲论坛 BIPV项目

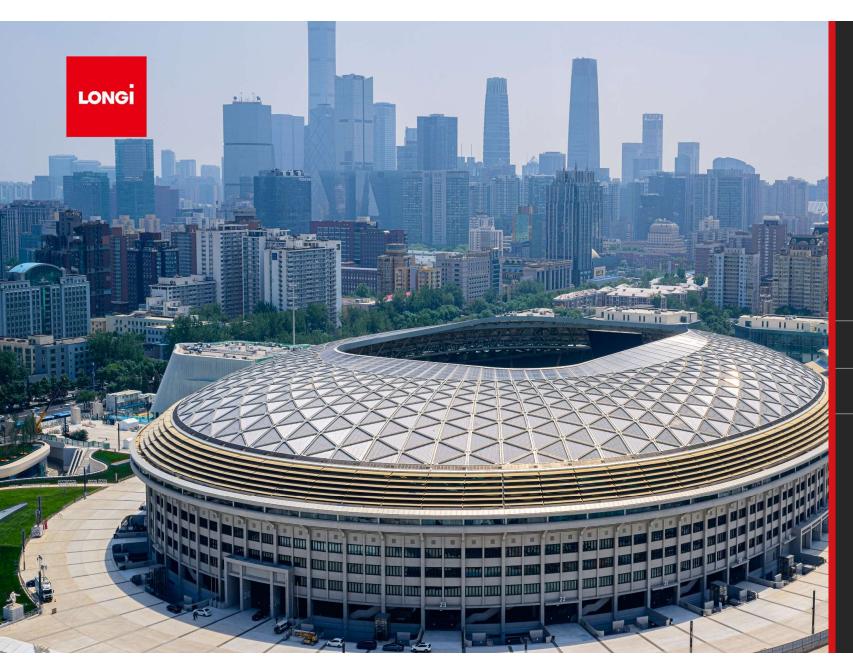
Bo'ao Forum for Asia BIPV project

3.88MW

- **项目位置 Location**海南·琼海 Qionghai, Hainan
- **井岡时间 Grid connection time** 2023.3

博鳌亚洲论坛穿上零碳"新外衣",将光伏产品与建筑完美融合,从屋面到车棚,让建筑的每一寸都发电。

Bo'ao Forum for Asia puts on a zerocarbon "new coat" and perfectly integrates photovoltaic products with the building. From the roof to the carport, every inch of the building generates electricity.



地标建筑 Landmark building

入选 "第二批中国20世纪建筑遗产"

Selected into the "Second Batch of Chinese 20th Century Architectural Heritage"

北京工体改建 BIPV项目

Beijing Workers' Stadium Renovation BIPV project

351kW

项目位置 Location 北京 Beijing

井岡时间 Grid connection time2023

北京市政府于2020年启动北京工人体育场的改造复建工程。工程涉及体育场的内外部结构,新增屋面幕墙工程由隆基供应351kW光伏发电组件,安装在体育馆屋面四周一圈,形状酷似"金项圈",为场馆提供部分用电的同时,兼顾建筑幕墙美观、节能、环保等特点。

The new roof curtain wall project installed 351kW of photovoltaic modules supplied by LONGi. The shape resembles a "golden collar", which not only provides part of the electricity for the venue, but also takes into account the beauty, energy saving, environmental protection and other characteristics of the building curtain wall.



汽车行业 Automobile industry 小米首款汽车SU7生产工厂

Production plant of Xiaomi's first car SU7

小米汽车工厂 BIPV项目

Xiaomi car factory BIPV project

16.2MW

北京 Beijing

井岡时间 Grid connection time2024

项目意义 Project Significance

小米首款汽车SU7生产基地——小米汽车超级工厂,在工厂屋顶铺设16.2MW分布式光伏电站,实现造新能源车,用新能源电。

Xiaomi's first car SU7 production base - Xiaomi Automobile Super Factory, has laid a 16.2MW distributed photovoltaic power station on the roof of the factory to build new energy vehicles and use new energy electricity.



水泥行业 Cement industry

2023年中国企业500强 全国知名水泥企业 Top 500 Chinese Enterprises in 2023 &

Renowned cement enterprise in China

红狮水泥园区江西会昌 光伏电站项目 Hongshi Cement Park Jiangxi

Hongshi Cement Park Jiangs Huichang PV Power Station Project

- 5.82MW
- **项目位置 Location**江西·赣州 Ganzhou, Jiangxi
- **井网时间 Grid connection time** 2024.03.05
- 项目意义 Project Significance

水泥行业属于高粉尘高耗能行业,本次业主选择9944块Hi-MO X6极智家防积灰组件,有效解决行业痛点,不仅带来发电收益,同时减少业主清洗组件的频次,助力可持续发展

The cement industry is a high-dust and energy-intensive industry. In this project, 9,944 Hi-MO X6 Guardian anti-dust modules are installed to generate power, and also to reduce the owner's burden in washing and cleaning the modules.



Building materials industry

亚洲最大最先进的岩棉生产线

Asia's largest and most advanced rock wool production line

青岛泰石岩棉项目

Qingdao Taishi Rock Wool **Project**

- 4.077MW
- 项目位置 Location 山东· 青岛 Qingdao, Shandong
- 并网时间 Grid connection time 2024.04.05
- 项目意义 Project Significance

泰石岩棉股份有限公司主要生产优质岩棉以 及制品,是国家重点的绝热保温材料生产企 业。岩棉生产粉尘等相关污染以及附着物较多,因此客户选择隆基防积灰产品,保障提 升发电效益,有效解决行业痛点,不仅带来 发电收益,同时减少业主清洗组件的频次, 助力可持续发展。

Taishi Rock Wool is a national key enterprise dedicated to the production of quality rock wool and products. It chose LONGi's anti-dust modules to guarantee the power generation while reducing the frequency of module cleaning.

