

● **EPC general contracting service features** EPC总包服务特点

Owner-driven cost Saving

Transform multi-lines management into single-line management; simplify project management for the owner

多头管理变为单线条管理;简化业主方的项目管理

Save cost

Achieve fixed total price, design-to-budget, cost optimization; total project cost is determined early

实现固定总价, 限额设计, 成本优化;工程总造价早确定

Save time

Simplify procurement, deeply integrate design and construction, and save 30% of construction time

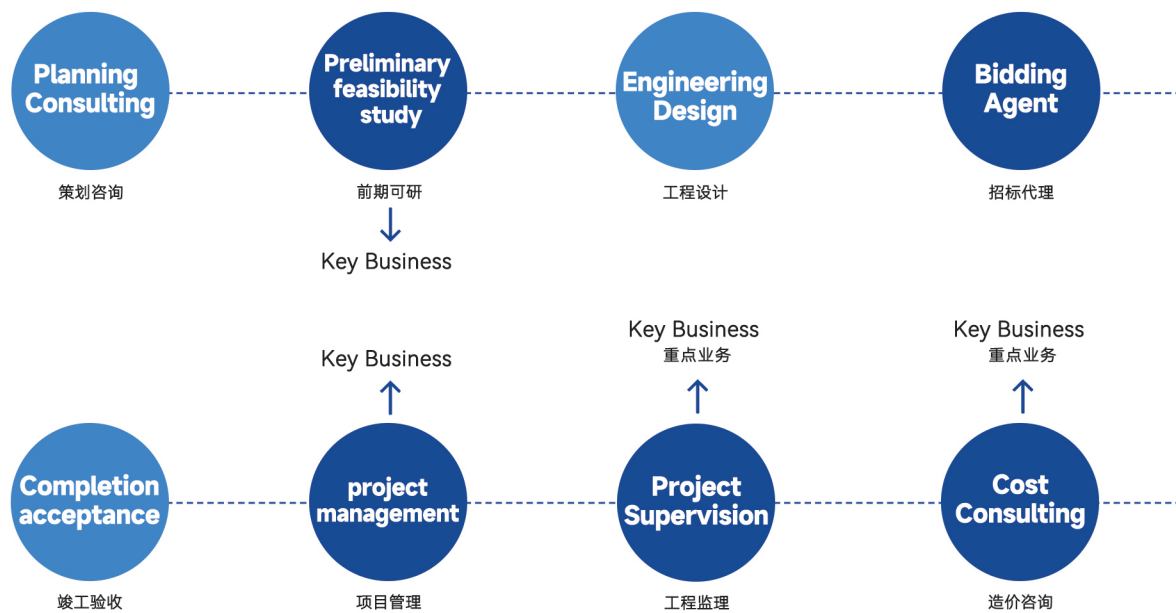
简化采购, 设计、施工深度融合, 节约工期30%

Reduce risk

Single Point of Responsibility, the general contractor is fully responsible, reducing project risks

单一主体责任, 总包单位全面负责,降低项目风险

● **Comprehensive project management consulting** 全过程咨询



**GUANGTE DIGITAL NEW ENERGY TECH
(HONG KONG) LIMITED**

COMMITTED TO PROVIDING CUSTOMERS WITH EXCELLENT ENERGY SOLUTIONS

致力于为客户提供卓越的能源解决方案



Web: <http://www.guangte-group.com>

TEL: 0757-89961999 86-13923132616

Add: No. 18, Kehong Road, Guicheng Street, Nanhai District, Foshan City, Guangdong Province
广东省佛山市南海区桂城街道科泓路18号

Email: angel@guangte-group.com

WhatsApp: 86-13923132616

Company Introduction 公司简介

Committed to providing customers with excellent energy solutions

Guangte Group, established in 1993, has developed into a leading enterprise in the industry, focusing on consulting, planning, design, project contracting, equipment manufacturing, investment, construction, operation and maintenance services in the energy sector. With years of industry accumulation, we have accumulated rich experience and are always committed to providing customers with innovative customized solutions.

Through its office in Hong Kong, Guangte Group has established a global service network, committed to providing customers with excellent energy solutions and actively participating in promoting the development of the global renewable energy industry.

广特集团，自1993年成立以来，已发展为行业内的领军企业，专注于能源领域的咨询、规划、设计、项目承包、设备制造、投资、建设、运营与维护服务。凭借多年的行业积淀，我们积累了丰富的经验，并始终致力于为客户提供创新的定制解决方案。

通过在香港设立的办事处，广特集团已构建起全球服务网络，致力于为客户提供卓越的能源解决方案，并积极参与推动全球可再生能源事业的发展。

scope of business 业务范围



Charging station energy storage (integrated light storage and charging)

充电站储能（光储充一体）

The integrated photovoltaic, energy storage, and charging system adopts a hybrid bus architecture, with photovoltaic, energy storage, and charging connected by a DC bus. The storage and charging efficiency is significantly improved compared to traditional AC buses. The system adopts a distributed design, consisting of power cabinets, battery cabinets, and charging terminals, which facilitates flexible deployment of charging power and energy storage capacity according to actual application scenarios.

光储充一体化系统采用混合母线架构，光伏、储能、充电之间为直流母线连接，储充效率较传统的交流母线大幅提升。系统采用分布式设计，由电源柜、电池柜及充电终端构成，便于根据实际应用场景灵活部署充电功率及储能容量。

Advantages of the plan

flexible Flexible Configuration
灵活配置

● According to the number of battery cabinets, power cabinets, and charging terminals configured at the site
根据站点配置电池柜、电源柜及充电终端数量

● Configure the number of charging, energy storage, photovoltaic, V2G and other modules according to their functions
根据功能配置充电、储能、光伏、V2G等模块的数量

DC bus Unified DC bus connection
储充采用统一的直流母线连接

● Improve energy conversion efficiency for EMS management
提升能量转化效率，便于EMS管理

Dynamic expansion Reduce dependence on power grid distribution
减小对电网配电的依赖

● Non charging period battery energy storage, during charging period, the power grid, photovoltaic, and battery simultaneously charge the vehicle, doubling the charging power
非充电期电池储能，充电期间电网、光伏、电池同时给车辆充电，充电功率倍增

Powerful functionality 功能强大

● It can achieve functions such as peak shaving and valley filling, new energy integration, load side response, emergency power supply, vehicle battery detection, etc
可实现削峰填谷、新能源接入、负荷侧响应、应急供电、车辆电池检测等功能



DC microgrid energy storage 直流微网储能

The integrated photovoltaic, energy storage, and charging system adopts a hybrid bus architecture, with photovoltaic, energy storage, and charging connected by a DC bus. The storage and charging efficiency is significantly improved compared to traditional AC buses. The system adopts a distributed design, consisting of power cabinets, battery cabinets, and charging terminals, which facilitates flexible deployment of charging power and energy storage capacity according to actual application scenarios.

偏远、无电网地区人口稀少且远离主干网络,需要自建电网。采用新能源发电并使用微电网技术是较好的解决方案。微电网需要根据当地的环境条件利用太阳能、风能、水能、油机等多种形式发电,并通过储能系统来平滑发电量和用电量,或者通过新能源发电与市电互补的形式提高供电网络的稳定性。

Advantages of the plan

flexible Flexible Configuration
灵活配置

● Distributed deployment can be carried out on the power generation side or the power consumption side
可在发电侧或是用电侧分布式部署

● Cabinet style design, small footprint
机柜式设计，占地面积小

Unified EMS management 统一EMS管理

● Improve power generation, energy storage, and electricity efficiency
提高发电、储能及用电效率

Modular design Single and bidirectional AC/DC, DC/DC modules
可选择单双向AC/DC、DC/DC模块

● In order to achieve photovoltaic, off grid, charging and other functions
以便实现光伏、并网、充电等功能

High voltage DC bus 高压直流母线

● Can be connected to photovoltaic modules to achieve photovoltaic energy storage
可接入光伏组件实现光伏储能

● Can be connected to DC loads such as electric vehicle charging stations
可接入电动汽车充电桩等直流负载



User-side energy storage 用户侧储能

The industrial and commercial energy storage system uses lithium batteries as energy storage devices. Through local and remote EMS management systems, it completes the balance and optimization of power supply and power demand between the power grid, batteries, and loads. It can also easily access new energy equipment such as photovoltaics, bringing application value in peak and valley power consumption, distribution network capacity expansion, and power safety.

工商业储能系统利用锂电池作为储能装置，通过本地及远端EMS管理系统，完成电网、电池、负载三者之间的电能提供和电能需求的平衡与优化，并能方便接入光伏等新能源设备，在峰谷用电、配网增容、用电安全等方面带来应用价值,同时作为核心节点实现智能电网的接入。

Advantages of the plan

DC bus 直流母线

● Can be connected to photovoltaic to achieve photovoltaic consumption
可接入光伏实现光伏消纳

● Can be connected to DC loads such as electric vehicle charging piles
可接入电动汽车充电桩等直流负载

● Can be connected to DC microgrid
可接入直流微网

Independent branch output Independent power conversion module
对应独立的电能变换模组

● Can be connected to batteries of different brands and performances
可接入不同品牌、性能的电池

Modular design Single and bidirectional AC/DC, DC/DC modules
可选单双向AC/DC、DC/DC模块

● In order to achieve photovoltaic, off grid, charging and other functions
以便实现光伏、并网、充电等功能

flexible Flexible Configuration
灵活配置

● The number of power cabinets and battery cabinets can be configured according to actual needs
可根据实际需求配置电源柜、电池柜的数量

● Cabinet style design, small footprint
机柜式设计，占地面积小