

# American Zenith Inc.

## Comprehensive Energy Solutions for a Sustainable Future

- Expertise in solar, wind, and energy storage integration to maximize renewable energy utilization.
- Innovative solutions tailored for commercial, industrial, and residential applications.
- Commitment to reducing carbon footprint and supporting global sustainability goals.
- Continuous investment in research and development to advance clean energy technologies.



# Company Overview

## About American Zenith Inc.

- American Zenith Inc., partnered with a power company, based in Shenzhen, China, is a comprehensive energy service provider focusing on renewable energies.
- Pioneering Global Energy Transformation: Integrating Innovation with Sustainable Impact.
- American Zenith Inc. stands at the forefront of the global energy revolution, harnessing cutting-edge technologies to deliver turnkey solutions across the renewable value chain.
- With engineered excellence and a commitment to planetary stewardship, we bridge the gap between sustainable ambition and operational reality.

## Strategic Partnerships & Technology Leadership

- Partnering with State Power Investment Corp. and global institutions to transform energy transition commitments into bankable assets.
- Sustainability must be both ecologically sound and economically viable.
- Technology Convergence Leadership: Our integrated ecosystem synergizes:
- AI-optimized photovoltaic farms, molten salt thermal storage networks, offshore wind-hydrogen co-generation, and microgrid-enabled 'PV-Storage-Charging' hubs.

# Business Activities Overview



## Wind Power Generation

Developing and operating wind farms to harness clean, renewable energy from wind resources.



## Photovoltaic (PV) Power Generation

Implementing large-scale solar PV installations for sustainable electricity production.



## Energy Storage & Charging Solutions

Deploying new energy storage systems and integrated PV charging stations for electric vehicles.



## Energy Conservation & Distribution

Advancing building energy conservation and enhancing power transmission and distribution networks.

# Household Distributed Photovoltaic System



## Independent Development & Partnerships

Through independent development and cooperation with powerful market partners in various regions.



## Customized Power Generation Solutions

Form customized solutions for different power generation scenarios to help household customers obtain higher power generation benefits.



## Core Advantage: Product Quality

Industry-leading product quality ensures reliable and economical solar solutions for households.



## Core Advantage: Technical Expertise

Standardized technical team and design system provide excellent product performance and professional technical services.

# Industrial and Commercial Distributed Photovoltaic Systems



## Scenario Adaptability

We have rich experience in factories, logistics parks, commercial centers, parking sheds, and more, creating a smart distributed energy ecosystem.

## Self-Investment or Profit Sharing

Projects can be funded by the enterprise itself or through profit sharing, offering flexible ownership and investment models.

## Solving Low Green Electricity Consumption

Our systems address low green electricity use, high carbon emissions, and dual control indicator challenges for enterprises.

## Diversified Investment Channels

We offer multiple investment and financing solutions to support project implementation and maximize returns.

# Centralized Photovoltaic Power Station System



## Optimize Initial Investment

Rationally optimize initial investment based on customer needs and project characteristics for maximum value.

## Enhance Power Generation

Improve system power generation by leveraging advanced technology and tailored solutions.

## Intelligent Operation Management

Intelligent operation and maintenance management ensures efficient and accurate project performance.

## Comprehensive Project Support

Full life cycle customer service: design, construction, and ongoing operation management.

# Power Station System: New Energy

## Highlights of American Zenith Inc. New Energy Wind Power Initiatives

- Wind power is an important pillar for achieving the goals of 'carbon peak and carbon neutrality' and a core force for the transformation of the global energy structure.
- China vigorously promotes the 'going to the countryside' project of wind power, expands the application scenarios of distributed wind power in counties, and helps rural revitalization and the coordinated development of local economy.
- American Zenith Inc. New Energy, with the resources of Beixin Road & Bridge, is building the full industrial chain capabilities of wind power from domestic to international, continuously developing high-quality wind power projects in resource-rich areas such as Xinjiang, Gansu, and Tibet, and focusing on in-depth cooperation with countries along the 'Belt and Road' to jointly promote green and low-carbon global development.



# Photovoltaic + Storage: Full-Scenario Application Solutions



## Household Energy Storage

Flexible systems for homes, supporting energy storage and efficient power usage in residential settings.



## Industrial Energy Storage

Solutions for industrial and commercial sites, enabling integration with renewable sources and grid support.



## Large Energy Storage

Supports new energy grid connection, frequency and peak regulation, and microgrid needs.



## Building Energy Storage

Commercial building with modular storage, supporting multi-mode operation to increase revenue.

# Photovoltaic Storage and Charging: Smart Energy Station Solution



## Photovoltaic Power Generation

Provides clean electricity by converting sunlight into energy for the microgrid.



## Energy Storage Batteries

Store excess clean electricity for later use by charging piles.



## Charging Piles

Recharge electric vehicles using stored or directly generated electricity.



## Microgrid Integration

Photovoltaic, storage, and charging systems work together for reliable, sustainable energy supply.

# Molten Salt Heat Storage: Applications and Principles



## Charging Process

Energy is transmitted to the electric heater, heating molten salt in the tank up to 400°C during low-cost or green electricity periods.



## Exothermic Process

Softened water is pumped into molten salt heat exchangers, producing high-temperature, high-pressure steam for various uses.



## Industrial Applications

Molten salt heat storage is used in food cooking, hotel systems, textile processing, and washing/cooling industries.



## Commercial & Medical Uses

Systems support food processing, steam distillation, and medical and health facilities requiring reliable steam supply.

# Ice (Water) Cold Storage Energy Storage Solution

## Working Principle of Ice (Water) Cold Energy Storage

- Cold energy storage uses cold storage media to store energy during low power load periods.
- Energy is released during peak periods to meet building air conditioning or production needs.
- This process helps balance energy demand and supply efficiently.

## Advantages of Ice (Water) Cold Storage

- Utilize peak and valley differences in electricity prices to reduce energy consumption and costs.
- Reduce peak load pressure on the power grid and enhance grid stability.
- Provide backup cold sources during power failures to maintain production operations.
- Reduce the need for new power plant construction and lower carbon emissions.

# Smart Integrated Energy Solutions



## Integrated Energy for Urban Areas

Smart Integrated Energy combines the energy needs of urban areas, industrial parks, and mixed-use factories using advanced systems.



## Advanced Functional Systems

Deploying rooftop photovoltaics, ice/water-cooled central air conditioning, molten salt and electrochemical energy storage.



## Intelligent Energy Control Platform

Systems are managed through an intelligent energy control platform to optimize usage and meet peak demand.



## Cost and Efficiency Benefits

Helps users reduce energy costs and improve efficiency in buildings, offices, hospitals, and more.

# Global Presence



## 01 Head Office: Shenzhen, China

Our headquarters is strategically located in Shenzhen, China, serving as the central hub for optimizing operations.



## 02 Overseas Markets Across Continents

We have established overseas markets in countries such as Russia, Mongolia, Japan, Nigeria, Mozambique, and more, highlighting our global reach.

# Key Overseas PV and Wind Power Projects



## **Msenge Emoyeni, South Africa**

6.9 MW onshore wind power project, contributing to local energy resilience.



## **Kenya Wind Power Project**

300 MW wind power project, supporting sustainable electricity generation in East Africa.



## **Neuhardenberg, Germany**

145 MW photovoltaic project, advancing Germany's solar energy capacity.



## **Japanese Black Machine**

35 MW photovoltaic project, part of Japan's renewable energy expansion.

# Key China PV and Wind Projects



**Chongqing PV Power Station**

3.44MW distributed photovoltaic power station supporting local energy needs.



**Yulin City, Shanxi Province**

100MW photovoltaic project contributing significantly to regional renewable energy.



**Jiuquan City, Gansu Province**

100MW wind power project providing clean energy to the area.



**Fuyun County, Xinjiang**

400MW wind power project, one of the largest in the region.

# Key China PV Projects Overview



## Guangzhou Development Zone Deson 2017

4.5MW Distributed Photovoltaic Project highlights urban renewable energy adoption.



## Heilongjiang Hailin 2020

50MW Water Surface Photovoltaic Project showcases innovative use of water bodies for solar energy.



## Jiangxi Jidian Gaan Guantang 2021

Lianhuatang 300 MW fishery-solar complementary project integrates aquaculture with solar power generation.

# Featured China PV Projects



**Guizhou Kaili Yintian 2022  
Logistics Park**

8MW Distributed Photovoltaic Project: A major logistics hub powered by solar energy to reduce carbon footprint.



**Wanchuang Hengwei Zhanjiang  
Potou 2022**

100 MW Fishery-Solar Complementary Project: Solar panels integrated with aquaculture ponds for dual land use.



**Huaneng Shantou Lemen 2023**

600MW offshore wind power cable laying project: Supporting large-scale renewable energy transmission.



**Chongqing Western Electronics  
Industrial Park 2023**

30MW integrated photovoltaic storage and charging project: Combining solar power with energy storage and electric vehicle charging.

# Contact Information

## Barrett LaRoda Profile

- Founder & Chairman of AGNI Entertainment & Aditiya Global Events
- Over 30 years of experience in public-private partnerships and live event mega-production
- Expert in infrastructure project development and government advisory
- Known for producing large concerts and cultural diplomacy events
- Leader in international trade, investment, and carbon sustainability programs

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