



中国石化
SINOPEC

地热走进生活

GEOHERMAL ENERGY ENTERS LIFE

双碳拥抱未来

DUAL CARBON EMBRACES FUTURE

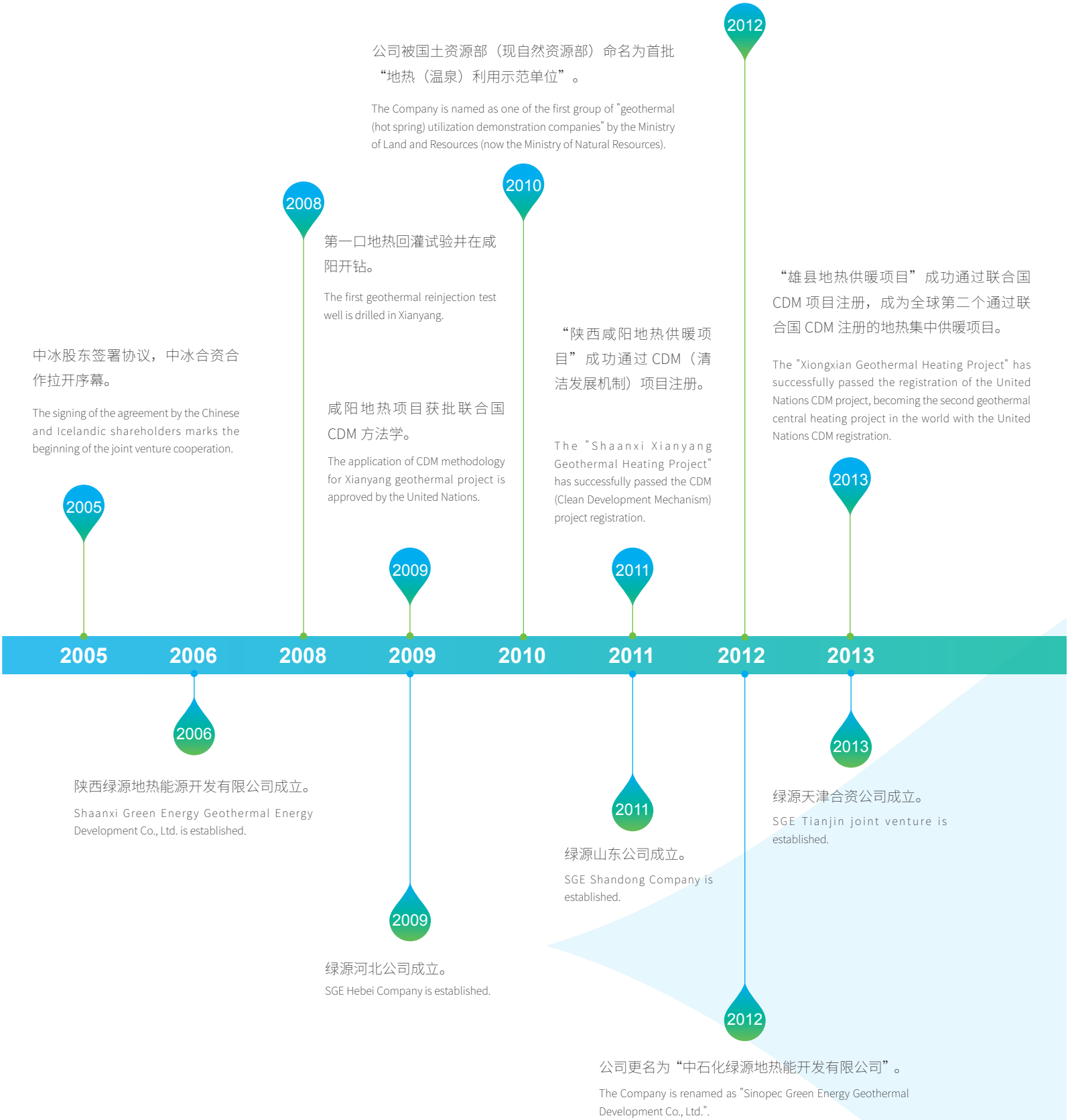


中石化绿源地热能开发有限公司

SINOPEC GREEN ENERGY GEOTHERMAL DEVELOPMENT CO., LTD

中国石化集团与奥卡能源在中冰两国总理的见证下签署了《关于扩大地热合作规模和范围的框架协议》。

Sinopec Group and Orka Energy signs the "Framework Agreement on Expanding the Scale and Scope of Geothermal Cooperation" in the presence of the China's Premier and Icelandic Prime Minister.



“雄县模式”被国家能源局在全国推广。

The "Xiong'xian Model" has been promoted nationwide by the National Energy Administration.

成功中标雄安新区容东片区 1200 万平方米供暖（冷）项目。

The affiliated Xiong'an Guolian Company has successfully won the bid for the 12 million square meter geothermal heating (cooling) project in Rongdong district, Xiong'an New Area.

2014

首个温室气体自愿减排（CCER）项目——陕西省西咸新区秦汉新城供热项目在国家发改委成功备案。

The first voluntary greenhouse gas emission reduction (CCER) project, the Qinhan New City Heating Project in Xixian New Area, Shaanxi Province, has been successfully registered in the National Development and Reform Commission.

2015

公司总部搬迁至河北雄安新区雄县。

The Company relocates its headquarter in Xiong'xian, Xiong'an New Area, Hebei.

2017

总部正式在雄安新区注册，成为雄安新区注册的第一家中外合资企业。

The headquarter is officially registered in Xiong'an New Area, becoming the first Sino-foreign joint venture registered in Xiong'an New Area.

2020

“地热+清洁能源集成”供暖覆盖雄县、容城县、安新县三县。

雄县地热供暖项目被国际可再生能源机构 IRENA 列入全球推广项目目录。

The synchronization of geothermal and other clean energies heating is carried out in Xiong'xian, Rongcheng, and Anxin.

The Xiong'xian geothermal heating project has been listed in the global project promotion directory by the international renewable energy agency IRENA.

2021

在上海证券交易所成功发行雄安新区首单绿色“碳中和”ABS 债券。

公司在雄安新区科创中心中试基地成功打造了一体化零碳园区示范基地。

The Company has successfully issued the first green "carbon neutral" ABS bond in Xiong'an New Area in the Shanghai Stock Exchange. It has successfully built an integrated zero carbon park demonstration base at the Xiong'an New Area Science and Technology Innovation Center Pilot Base.

公司中冰股东在 2023 年世界地热大会上签署《中冰合作战略协议》。

The Company's Chinese and Icelandic shareholders sign Sino-Icelandic Strategic Cooperation Agreement on at the 2023 World Geothermal Congress (WGC).

2022

2023

2024

2014

2015

2017

2018

2019

2020

2021

2024

绿源北京公司成立。

SGE Beijing Company is established.

公司被国务院国资委列为第三批混合所有制改革试点单位，新星双良公司整体并入混改公司。

The Company is listed by the State-owned Assets Supervision and Administration Commission of the State Council as the third batch of pilot units for mixed ownership reform, incorporating Sinopec Star Shuangliang Company.

2024 年绿源公司创造了年度新增供暖能力超 2000 万平方米的历史记录，总供暖能力突破 1 亿平方米，助力新星公司提前一年完成“十四五”规划目标。

In 2024, Green Source Company set a historical record of adding over 20 million square meters of heating capacity annually, with a total heating capacity exceeding 100 million square meters, helping New Star Company achieve its "14th Five Year Plan" goals one year ahead of schedule.

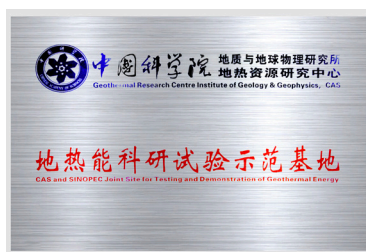
绿色至上 GREEN FIRST

——“双碳”战略的践行者——
—PRACTITIONER OF THE "DUAL CARBON" STRATEGY—

发展历程 Development History

中石化绿源地热能开发有限公司成立于 2006 年，是由中国石化集团新星公司与冰岛极地绿色能源公司共同投资组建，主要从事地热资源的开发及利用、节能技术服务、温室气

Established in 2006, Sinopec Green Energy Geothermal Development Co., Ltd. is jointly invested by Sinopec Star and Iceland Arctic Green Energy Corporation. It is mainly engaged in the development and utilization of geothermal resources, energy saving technology services, greenhouse gas emission reduction, and other businesses. It currently has 4 wholly-owned subsidiaries and 6 participating or holding companies. The Company is a "geothermal development and utilization demonstration company" of the Ministry of Natural Resources and National Energy Administration, the "geothermal scientific research experiment demonstration base" of the Chinese Academy of Sciences, and is listed in the third batch of pilot units of mixed ownership reform by the State-owned Assets Supervision and Administration Commission of the State Council in 2019.



产业规模 Industrial Scale

公司目前是国内规模最大的中深层地热能开发利用专业企业。地热业务扩展至京、津、冀、陕、晋、鲁、辽等省（市），与国内 50 余个市（县、区）签订了战略合作协议。

The Company is currently the largest professional company in the middle and deep geothermal development and utilization in China. The geothermal business has expanded to provinces (cities) such as Beijing, Tianjin, Hebei, Shaanxi, Shanxi, Shandong, and Liaoning, and strategic cooperation agreements has been signed with more than 50 cities (counties, districts) in China.

1 亿平方米
100 million square meters

供暖能力
Heating capacity

24 个
24

超 100 万平方米的供暖能力城市
Cities with each possessing over 1 million square meters heating capacity

1500-2000 万平方米
15-20 million square meters

年均增量
Annual average increase

科技至强

STRONG TECHNOLOGY

——绿色能源方案的设计商

—DESIGNERS OF GREEN ENERGY SOLUTIONS

发明专利

Invention Patents

公司大力开展技术研究，积极申请技术发明创造成果，保护知识产权，赢得市场主动。公司拥有砂岩尾水回灌、地热梯级利用等技术专利 200 余项，5 家子公司为国家高新技术企业。

The Company has vigorously conducted technological research, actively applied for technological invention and achievements, protected intellectual property rights, and won the market initiative. It has over 200 technical patents for sandstone reinjection and geothermal cascade utilization; furthermore, 5 subsidiaries are national high-tech enterprises.

200 余项

More than 200

发明专利数量

Invention patents

5 家

5

国家高新技术企业

National high-tech enterprises

六大技术

Six Major Technologies

公司依托国家地热能中心、能源行业地热能专业标准化技术委员会、中冰地热技术研发合作中心、中国石化地热资源开发利用重点实验室等四大技术平台，通过引进冰岛先进理念和技术，加强自主技术研发，形成了地热能开发利用 6 大核心技术体系，为公司规模开发地热能提供了技术支撑。

Relying on four major technical platforms, including the National Geothermal Energy Center, Geothermal Professional and Standard Technology Committee, Sino-Icelandic Geothermal Technology Research and Development Cooperation Center, and the Sinopec Key Laboratory for Geothermal Resource Development and Utilization, the Company has formed six core technology systems for geothermal energy development and utilization by introducing Icelandic advanced concepts and technologies and strengthening independent technology research and development, providing technical support for its own large-scale development.

六大技术

Six Major Technologies

地热勘探热储评价技术

Geothermal Exploration
and Reservoir Assessment
Technology

地热回灌技术

Geothermal Reinjection
Technology

地热钻井技术

Geothermal Drilling
Technology

智慧运营管理技术

Intelligent Operation and
Management Technology

梯级综合利用技术

Cascade Comprehensive
Utilization Technology

地热 + 多种

清洁能源集成技术

Geothermal plus
Multiple Clean Energies
Synchronization Technology

服务至精

SERVE TO THE BEST

——绿色能源方案的供应商

——SUPPLIER OF GREEN ENERGY SOLUTIONS

建设运营 Construction and Operation

公司是绿色能源项目设计、建设、运营、管理、服务全流程一体化供应者。拥有建设运营成熟经验，可以承接电气安装工程、建设工程设计和施工、发电和输电以及供电等30多项业务。

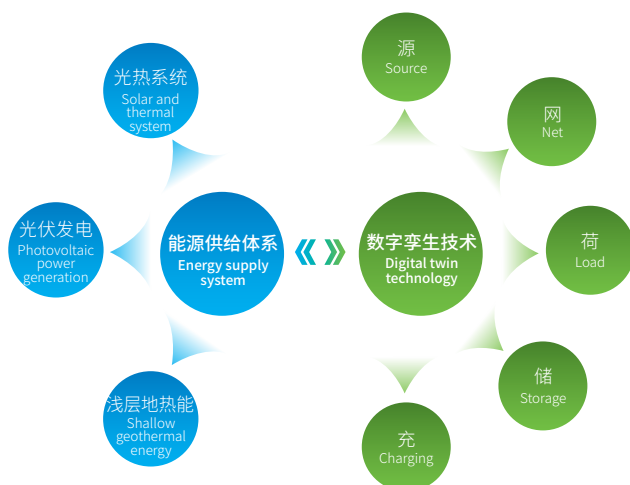
The Company is an integrated supplier of green energy project design, construction, operation, management, and service throughout the entire process. It boasts of mature experience in building and operating energy projects and is capable of undertaking over 30 kinds of businesses, including electrical installation, building design and construction, power generation, transmission, and supply.

设备制造 Equipment Manufacturing

公司2014年开始从事地热装备制造、热泵维护保养业务，应用公司专利及科技成果，积极参与地热尾水回灌设备研究，生产的回灌过滤及相关设备已在全国十余个省市、70多个项目中应用。

The Company has been engaged in geothermal equipment manufacturing and heat pump maintenance business since 2014. It has applied company patents and technological achievements in the research of geothermal discharged water reinjection equipment. Consequently, the reinjection and filtering related equipments have been used in more than 70 projects across over ten provinces and cities.

能源互联 Energy Interconnection



应用场景 Application Scenario

公司打造的“雄县模式”被国家能源局在全国推广，雄县地热供暖项目被国际可再生能源机构（IRENA）全球推广。

The "Xiongxin Model" created by the Company has been promoted nationwide by the National Energy Administration, and the Xiongxin geothermal heating project has been promoted globally by the International Renewable Energy Agency (IRENA).



“地热+”经典项目

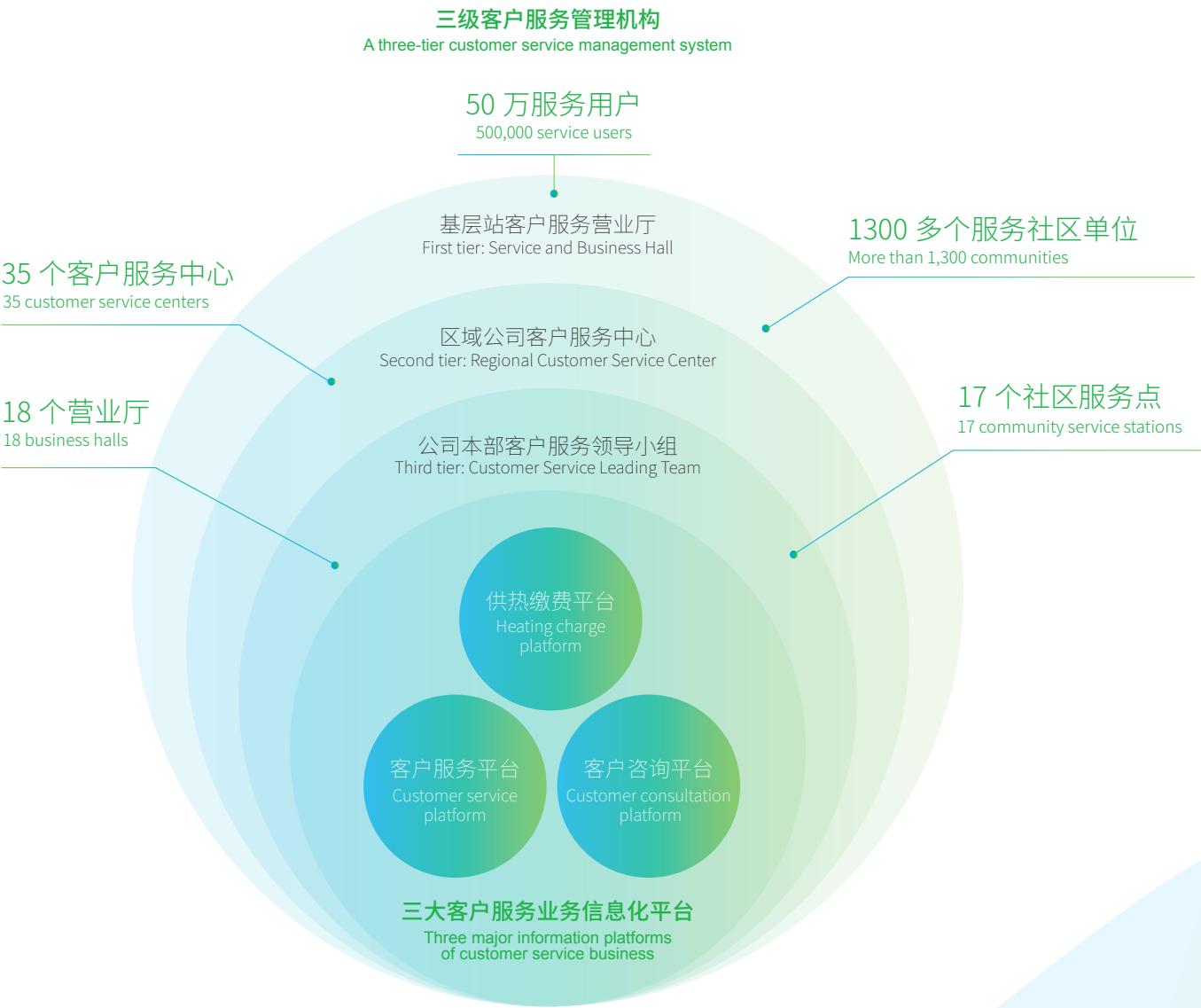
Classic "Geothermal plus" Projects



生活至美 LIVE TO THE MOST

—— 社会责任的承担者 ——
— UNDERTAKER OF SOCIAL RESPONSIBILITIES —

服务百姓 Serving the People



社会责任 Social Responsibilities

节能环保 / Energy Saving and Environmental Protection

153 万吨
1.53 million tons

年可替代标煤
Coal replaced annually

400 万吨
4.0 million tons

减少二氧化碳排放
Carbon dioxide emissions reduced

883 万棵
8.83 million trees

相当于植树
Equivalent to planting trees

社会公益 / Public Welfare

公司积极承担社会责任，设立爱心驿站，参与社区疫情防控等。

The Company actively undertakes its social responsibilities, sets up community service stations, and participates in the community pandemic prevention and control.

——我们是您进入“零碳”领域的最佳合伙人。

——We are your best partner to enter the "zero carbon" field.

我们致力于成为
We are committed to becoming

国际知名的

an internationally-famous
清洁能源开发商
clean energy developer

政府放心的

a government-reassured
清洁能源合作商
clean energy partner

市场信任的

a market-trustworthy
清洁能源供应商
clean energy supplier

百姓满意的

a people-benefited
清洁能源服务商
clean energy service provider

——全力打造“世界品牌、中国第一”地热能开发利用公司。

——We are making every effort to build a "world brand, China's first"
geothermal energy development and utilization company.

中石化绿源地热能开发有限公司

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订阅号



服务号