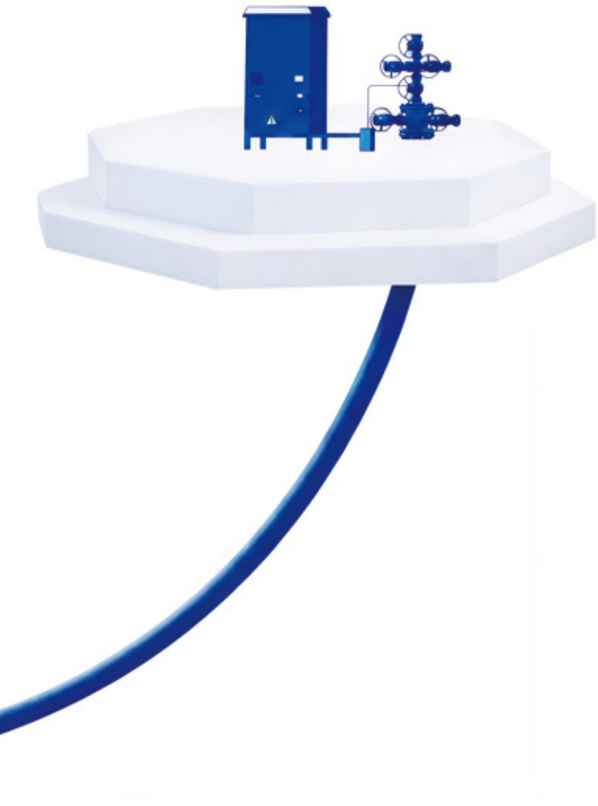
FLOWTRIC

ESPCP

Intelligent Artificial Lift System



www.flowtric.com

Electric Submersible Progressive Cavity Pump System

2026

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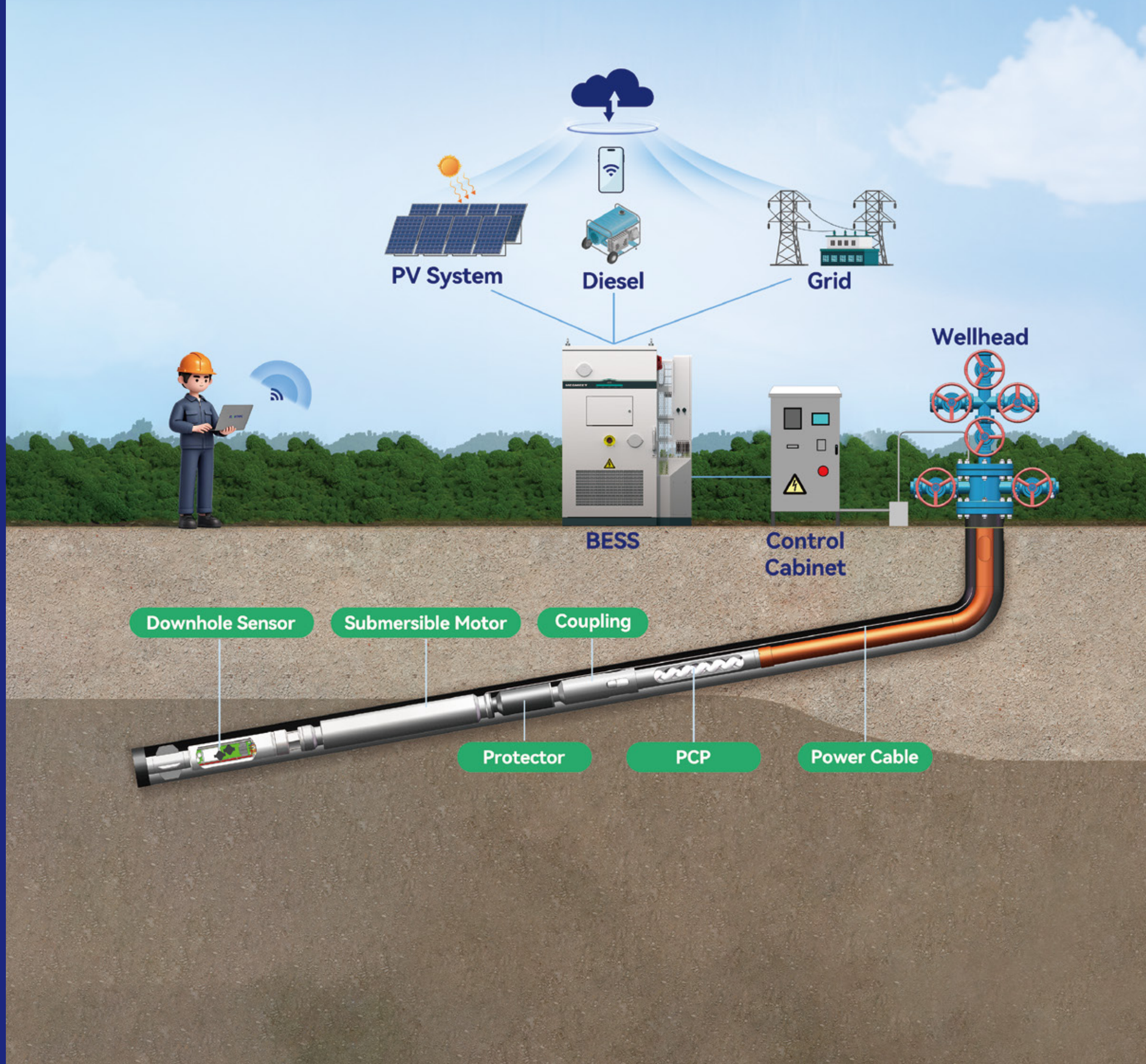
FLOWTRIC

ESPCP

Artificial Lift System

Flowtric Electric Submersible Progressive Cavity Pump System (ESPCP) is an intelligent, rodless, high-energy-efficient artificial lift system. The power cable is used to transmit power to the submersible permanent magnet motor (PMM), which drives the rotation of the progressive cavity pump (PCP) and lifts the well fluid to the surface.



ABOUT FLOWTRIC

Better Energy Flow Forward

Flowtric Technology Co., Ltd. was established in 2015 as a holding subsidiary of Shenzhen Megmeet Electrical Co., Ltd. (Ticker: 002851). It specializes in the R&D, production, sales, and services of artificial lift technology in oil industry. With decades of industry expertise, Flowtric Technology is consistently dedicated to technological innovation and professional services. Its products have been deployed over 30 oilfields globally, over 3,000 wells experience, and have gained wide recognition from global clients and industry.

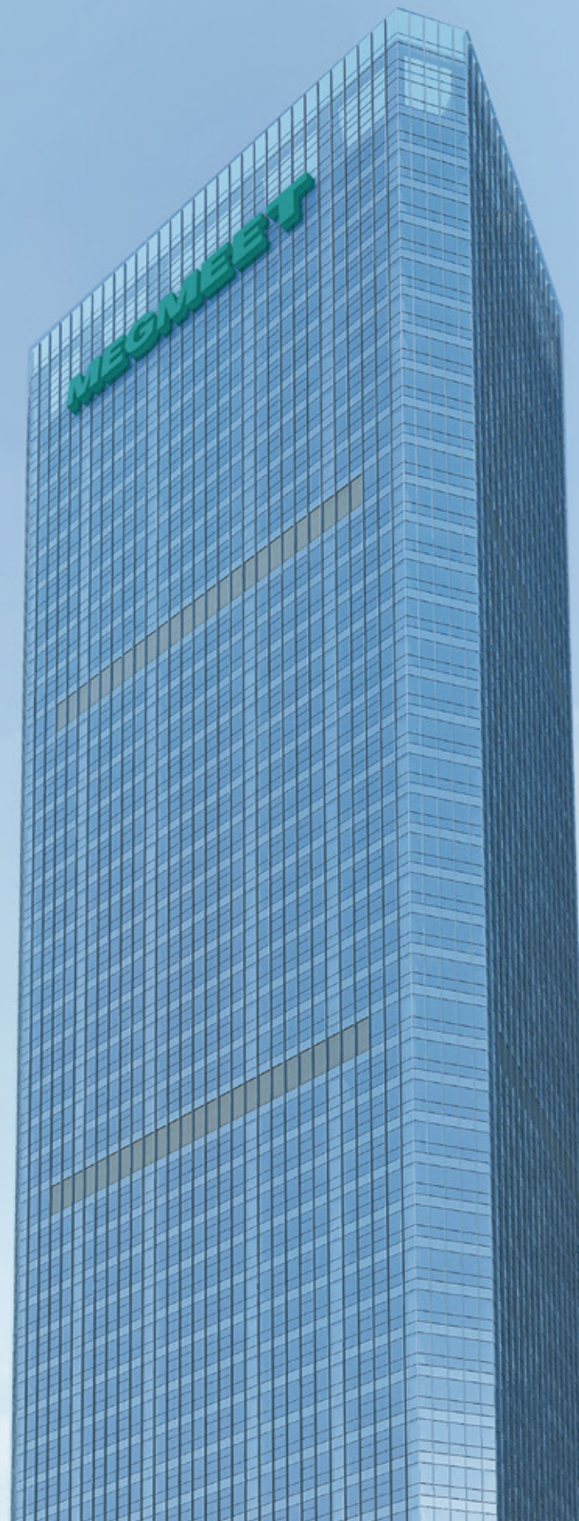
- Headquarter in Hangzhou, China
- National High-Tech Enterprise
- ISO 9001 · ISO 14001 · ISO 45001 Certified
- 100+ Patents

$1.3B
FY2025 Revenue

40.0%
FY2025 Overseas Sales Ratio

9500+
Total Employees

32.6%
R&D Staff Ratio



CERTIFICATES OF HONOR

Honor Certificates

System Certifications

Invention Patents

MILESTONES

Pursue Excellence Never Stop
From Lab Innovation to Global Deployment

2006
Based on the requirements of the oilfield, a preliminary feasibility on ESPCP was proved with the Harbin Institute of Technology team.

2008
Laboratory principle verification was completed, and the prototype operated successfully.

2010
The software platform was developed, and the first downhole test of the system prototype was conducted.

2013
The product was applied downhole, and product reliability verification was completed.

2015
FLOWTRIC Brand was established. Products entered mass production.

2017
Gained broad recognition for heavy oil cold production technology.

2019
The product achieved large-scale application and multiple well pads were established. FLOWTRIC has gradually shaped its market footprint.

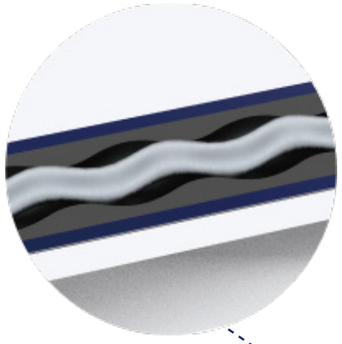
2021
FLOWTRIC ESPCP system applied in over 1,000 wells, covering 17 oilfields.

2022
The industry standard FLOWTRIC participated in its formulation was released.

2024
The oilfield PV-BESS system developed by FLOWTRIC was deployed in overseas markets.

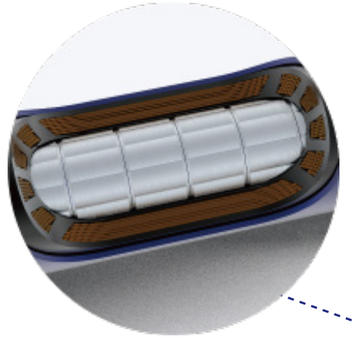
2025
The production area will expand to 10,000 m², with an annual production capacity of 2,000 units/sets.

PRODUCTS



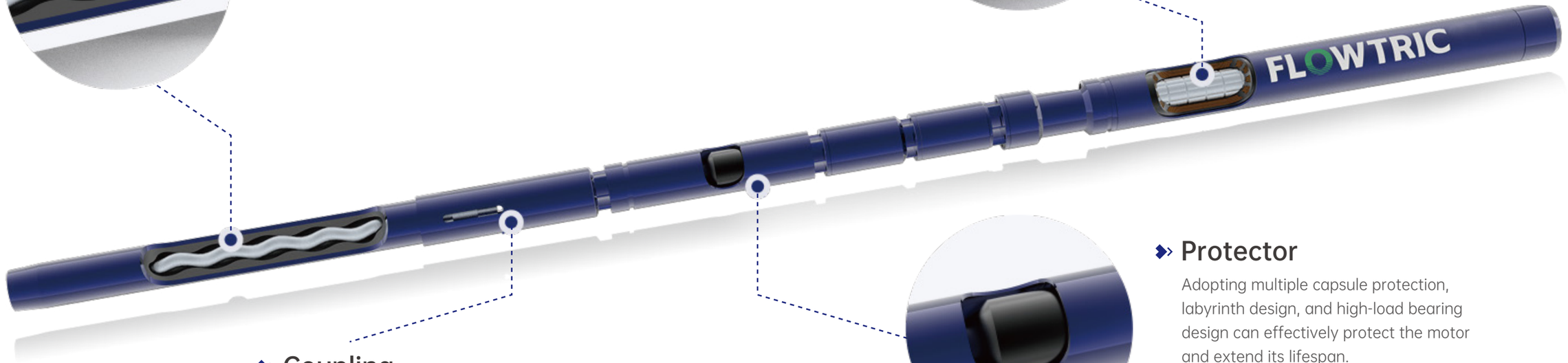
Progressing Cavity Pump

It has strong adaptability to sand and polymers, maintaining high operational efficiency even in high-viscosity oil.



Submersible Motor

Adopting permanent magnet motor, the system has high efficiency, low rotor temperature rise, and the characteristics of low speed and high torque.



Coupling

It can efficiently transmit torque, converting the concentric motion of the motor into the eccentric motion of the PCP.

Protector

Adopting multiple capsule protection, labyrinth design, and high-load bearing design can effectively protect the motor and extend its lifespan.

Downhole Sensor

It provides data support for intelligent control, parameter optimization, and fault analysis.It acquires critical downhole data such as temperature, pressure and vibration in real time, and transmits the data to the surface control cabinet via power cables, ensuring stable and efficient operation of the ESPCP system.

Control Cabinet

- Supports remote and local control for easy operation.
- Data visualization and monitor running status in real time.
- Encrypted data storage to ensure information security.
- Star Sealing protection technology to prevent reverse rotation.
- Integrated cable reflection wave & leakage current management.
- Sensorless vector control technology without position encoder.
- Patented anti-demagnetization tech of submersible PMM.

TYPICAL APPLICATIONS

Cold Heavy Oil Production

Enable cold production of high viscosity oil without extra electric heating system.

Conventional pumping units feature small tubing flow area, high friction, unbalanced load and rod donkey head collision. They require high-power electric heating for heavy oil viscosity reduction, leading to huge daily power consumption.

Flowtric ESPCP is a cost-effective CHOP solution. Rodless tubing design eliminates electric heating demand for heavy oil production, boosting well productivity and extending system run life.

In our CHOP applications:

- The highest viscosity reached 25400 mPa.s @ 50 ℃;
- No extra electric heating system, reducing CAPEX;
- Energy saving rate was about 90%;
- System efficiency greatly improved.

High Inclination Well

No rod and tubing wear, exceptionally longer run life.

Flowtric ESPCP system has no rod in the tubing, and the protector adopts multistage capsule series protection, which can be lowered even to the horizontal level.

In our applications, hundreds of wells has an inclination angle of more than 60° at the pump hanging point, and the maximum inclination angle of the pump hanging point is 90°. The longest operation time is over 2800 days.

No.	Well No.	Deviation Angle @Pump	Setting Depth (m)	PCP	Running Days (d)	Speed (rpm)	Output Current (A)	Output Power (kW)	Inlet Pressure (MPa)	Inlet Temp. (℃)
1	GD***17	90°	1470	15-2700	498	60	15.6	5.6	1.63	67.8
2	GD***23	89.16°	1477	15-2700	435	180	12.4	4.2	4.96	71.8
3	5***7	86°	860	32-1500	2491	80	19.8	6.9	1.78	39.0
4	Y***10	84.4°	1510	22-1800	382	200	17.6	7.4	3.84	58.9
5	L***6H	83.36°	1730	15-2700	1751	200	9.2	4.7	11.26	58.9
6	L***4H	80.6°	1410	22-1800	675	100	11.9	5.1	5.41	60.0
7	Y***20	78.1°	1940	13-2000	510	140	12.1	4.2	3.02	71.5
8	KD***12	77.4°	1850	13-2600	2801	60	21.9	9.5	0.98	50.4
9	X***6H	76.11°	1200	22-1200	1030	200	5.9	1.7	9.73	55.0
10	X***H	76°	1455	22-1800	1822	115	13	4.6	4.2	55.0

Wide Range ESPCP

Flowtric ESPCP delivers constant and high torque across the full PCP speed range of 50 to 400 rpm. Especially in shale oil fields, it adapts to the change trend of shale oil production without replacing the pump, significantly cutting CAPEX and OPEX.

The minimum projection size is 110 mm, and the minimum casing diameter is 115mm. 109 shale oil wells have been implemented in China Xinjiang Oilfield, with an average pump setting depth 1800m and average temperature of 60 ℃.

No.	Well No.	Setting Depth (m)	PCP	Running Days (d)	Speed (rpm)	Output Current (A)	Output Power (kW)	Inlet Pressure (MPa)	Inlet Temp. (℃)
1	J***6	1920	15-2400	835	260	11	6.9	4.3	54
2	JH***23	1970	10-2700	648	100	19	7.7	3.5	61
3	JH***21	2000	10-2700	646	60	17.6	5.8	2.7	68
4	J1***4	1950	10-2700	622	60	25.3	10	3.2	64
5	JH***26	1930	10-2700	613	330	14.6	6.5	6.9	64
6	JH***34	1800	10-2700	604	100	21	8.4	3.6	59
7	JH***23	2200	6-2400	578	60	14.8	5.5	2.3	66
8	JH***22	2000	10-2700	575	350	14	11.3	6	67
9	J**51	2200	10-2700	554	180	13	5.9	3.9	64
10	JH***32	2000	15-2700	530	100	18	7.2	3.1	62

Construction of Well Pad

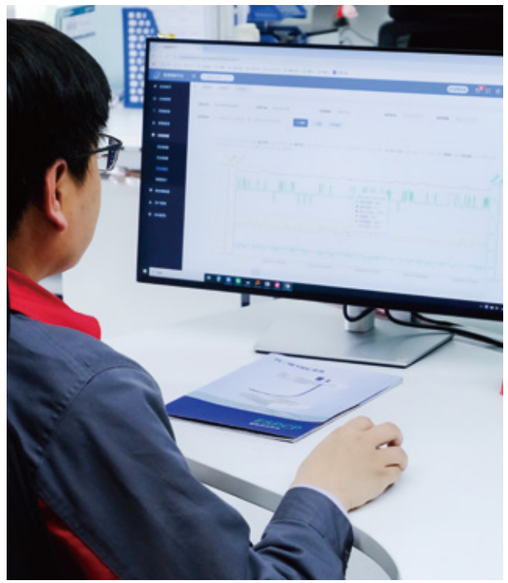
Participated in the construction of 40 Well Pads.

The trajectory of large-platform well pad is highly complicated, the rod tube of traditional pumping unit is severely worn, the running depth is limited, the controlled reservoir depth is shallow and the range is small. Flowtric ESPCP delivers the optimal performance in this case, and helped the customer achieve the intelligent production management.

TYPICAL APPLICATIONS

FLOWTRIC IoT Platform

Relying on IoT technology, the operational data collected by on-site devices is uploaded to the cloud in real time for centralized storage. The system supports multi-terminal real-time data viewing, remote parameter adjustment, fault alarming and report generation. It eliminates time and space constraints, enables 24/7 unattended operation at well sites, greatly cuts labor costs, and delivers smarter, easier operation and maintenance.



Intelligent Oilfield Management

Intelligent oilfields through downhole sensors, ground data acquisition instruments and video surveillance, together with AI algorithms and IoT technologies, to realize real-time monitoring, remote control, data analysis and intelligent opertion. On-site unattended operation can be achieved, making the oil production process more efficient, safer and greener.

OILFIELD CASES

Changqing Oilfield

North China Oilfield

Dagang Oilfield

Xinjiang Oilfield

Jiqing Shale Oilfield

Overseas Oilfields

Tuha Oilfield

Shengli Oilfield

BUSINESS LAYOUT

Deepen Domestic Roots Broaden Global Reach

1 R&D Center

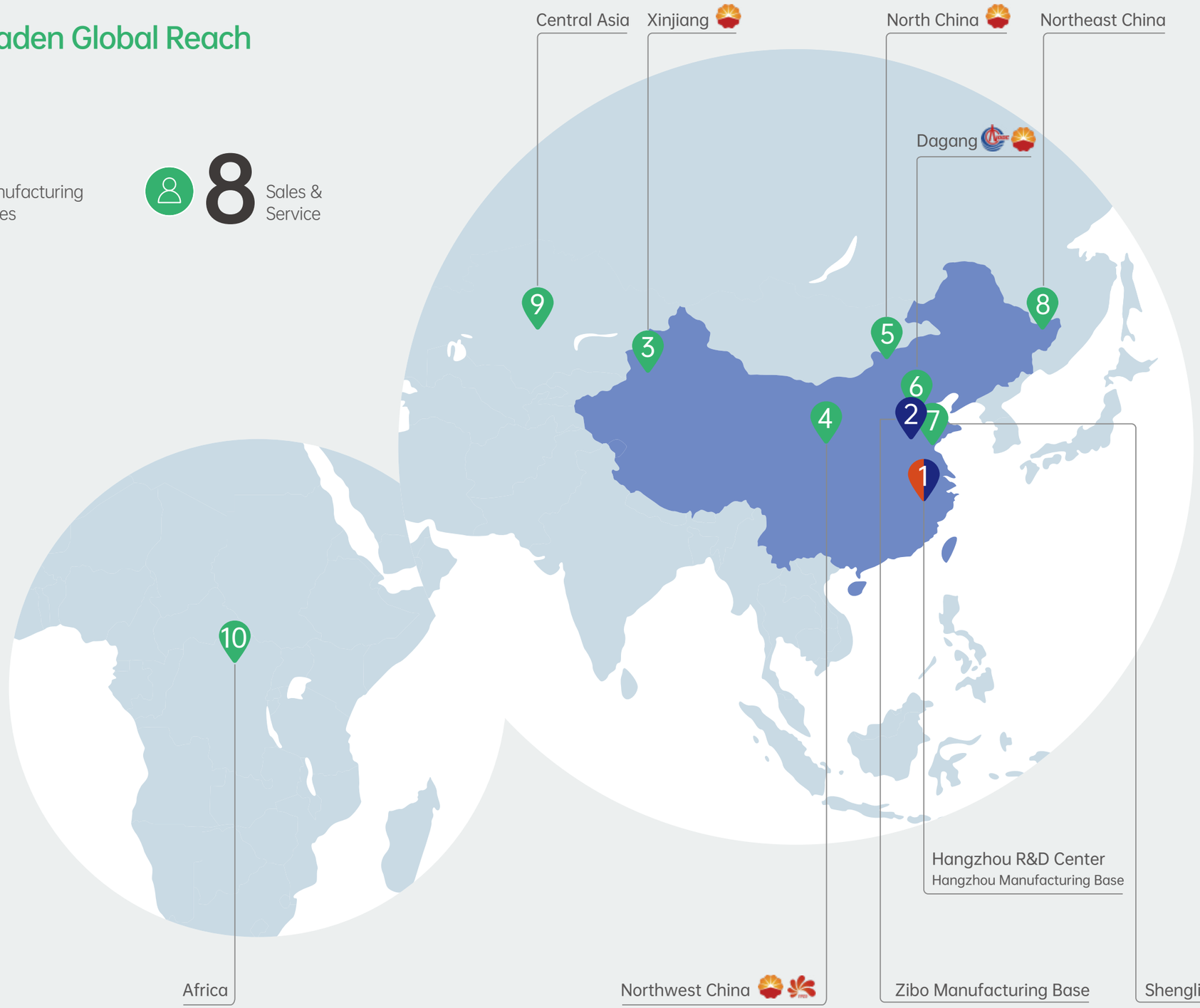
2 Manufacturing Bases

8 Sales & Service

30+ Oilfeilds
Total Domestic & Overseas

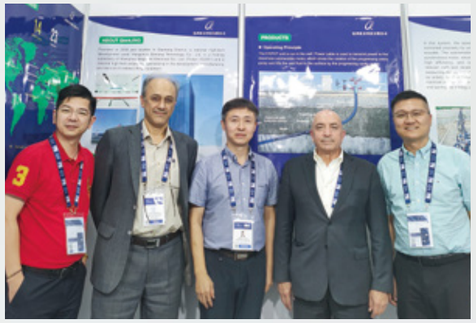
3000+
Well Experience

>90%
ESPCP Domestic Market Share

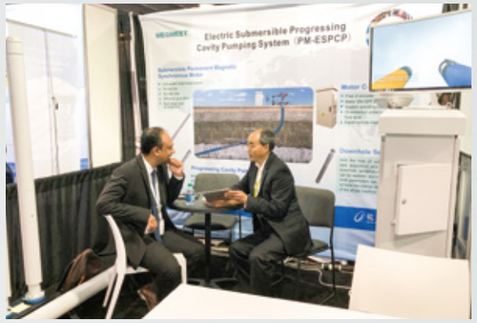


Overseas market Domestic market

EXCHANGES



Overseas Exhibition
Abu Dhabi Oil Exhibition



Overseas Exhibition
USA OTC Exhibition

Technology Meeting
China New Oil & Gas Production Engineering Technology Conference

Industry Technical Conference
FLOWTRIC Speaks as Industry Representative

Overseas Exhibition
Kuwait Heavy Oil Exhibition

Overseas Exhibition
OPES Exhibition

Standard Drafting Workshop
Oil and Gas Drilling and Production Equipment Submersible Electric Pump Unit

Overseas Exchange

Overseas Exchange

Technical Seminar
Xinjiang Oilfield Technology Meeting

International Standard Seminar
Third Seminar on International Standard Formulation

SUSTAINABLE DEVELOPMENT

“Intelligent

Oil Production System Solution Provider”