

CASE STUDIES

Pumps at work: recorded results

Replacements and new installations in gas fields, chemical plants, carbon black plants and paper mills.



667

supply records, 2007–2026

39.5%

less electricity at Kong 6 Well

3 years

of good service in the desert before a repeat order

CASE STUDIES

Contents

NO.	Site	Industry	Key result
01	Hotan, Xinjiang, China	Oil and gas	Repeat order after 3 years
02	Zhongyuan Oilfield, China	Oil and gas	Loaded for delivery
03	Kong 6 Well	Oil and gas	39.5% less electricity
04	Wei 001-H1 Well, Leshan, China	Oil and gas	23.5% less electricity
05	Jing 4 Central Station, Luzhou, China	Oil and gas	48.3% less electricity
06	Bao 46 Well, Yuxi, China	Oil and gas	75 → 45 kW (101 → 60 hp)
07	Rongxian purification plant, China	Oil and gas	Over 500 kWh saved per day
08	Longhupao, Daqing, China	Oil and gas	More than 100 wells cleaned
09	Daqing Oilfield Chemical Group, China	Chemical plants	Stable methanol delivery
10	Naisiter / Yunwei Feihu / Longxing	Carbon black	Multistage and belt-connected equipment replaced
11	A carbon black plant in Tianjin, China	Carbon black	Complete-pump overhaul
12	Vinda factories, China	Paper mills	Installations at six factories
13	Xiawang Paper, Zhejiang, China	Paper mills	Cutting and flushing installations

CASE 01 · PETROCHINA · TARIM OILFIELD

Hotan desert: three years before a repeat order

SITE	YEAR	LIQUID	SUPPLY
Hotan, Xinjiang, China	2022 / 2025	Gas-field water	Enclosed pump skids



Original installation · Hotan, Xinjiang · 2022

1 skid

ordered in 2022

Before

At a desert project in the Hotan area of Tarim Oilfield, PetroChina needed pumping equipment for a remote installation.

3 years

of good service

What EHIK did

EHIK supplied an enclosed skid with the pumping equipment and supporting systems in one package.

2 skids

ordered in 2025

Result

After three years of successful operation, PetroChina ordered two more unattended pump skids in 2025.

Sources: project records.

ehikpumps.com

CASE 02 · ZHONGYUAN OILFIELD

A complete pump skid loaded for Zhongyuan

SITE	YEAR	LIQUID	SUPPLY
Zhongyuan Oilfield, China	2024	—	Complete pump skid



Complete pump skid being loaded for delivery.



Complete skid at EHIK.



Skid loaded onto a truck.

Before

Zhongyuan Oilfield ordered a complete pump skid in 2024.

What EHIK did

EHIK assembled the pumping equipment, vessels, pipework and a control cabinet in one skid.

Result

A complete pump skid with vessels, pipework and control cabinet, loaded for delivery.

Sources: project records.

ehikpumps.com

CASE 03 · PETROCHINA SHUNAN GAS MINE

Kong 6 Well: one stage replaced a multistage pump

SITE	YEAR	LIQUID	SUPPLY
Kong 6 Well, Zigong Operating Area, China	2015	Gas-field water	Replacement pump set, flanges to fit the existing piping



Multistage centrifugal pump · 90 kW (121 hp) motor



EHIK pitot tube pump · 45 kW (60 hp) motor

39.5% less

electricity per 10,000 m³ (2.64 million US gal) of gas-field water

90 → 45 kW

Motor rating, 121 → 60 hp

USD 20,000

Approximate saving on maintenance each year

Before

A multistage centrifugal pump with a 90 kW (121 hp) motor moved gas-field water at the well station.

What EHIK did

In 2015, EHIK replaced it with one pitot tube pump. The flanges were made to fit the existing piping.

Result

The pump ran steadily and needed fewer repairs. Site meters showed 39.5% less electricity for the same volume of water.

Sources: site meter readings and project records. Results depend on the duty.

ehikpumps.com

CASE 04 · PETROCHINA SHUNAN GAS MINE

Wei 001-H1: less electricity for the same volume of water

SITE	YEAR	LIQUID	SUPPLY
Wei 001-H1 Well, Leshan, China	2014	Gas-field water	Replacement pump set



Before · Multistage pump, 90 kW (121 hp) motor



After · EHIK pump, 45 kW (60 hp) motor

23.5% less

electricity per 1 m³ (264 US gal) of gas-field water

90 → 45 kW

Motor rating, 121 → 60 hp

Before

A multistage pump with a 90 kW (121 hp) motor moved gas-field water at the well.

What EHIK did

At Wei 001-H1 Well in the Leshan Operating Area of PetroChina's Shunan Gas Mine, an EHIK pump replaced a multistage pump in 2014.

Result

Meter readings showed 23.5% less electricity per cubic metre (approx. 264 US gal) of gas-field water.

Sources: project records.

ehikpumps.com

CASE 05 · PETROCHINA SHUNAN GAS MINE

Jing 4: 48.3% less electricity for the same volume of water

SITE	YEAR	LIQUID	SUPPLY
Jing 4 Central Station, Luzhou, China	—	Water	Replacement pump



Before · Multistage centrifugal pumps



After · EHIK pump installation

48.3% less

electricity per 10,000 m³ (2.64 million US gal) of water

Before

The station used a multistage centrifugal pump.

What EHIK did

An EHIK pump replaced the multistage centrifugal pump.

Result

Project records show 48.3% less electricity per 10,000 m³ (2.64 million US gal) of water pumped.

Sources: project records.

ehikpumps.com

CASE 06 · PETROCHINA SHUNAN GAS MINE

Bao 46: a pump replacement with a smaller motor

SITE
Bao 46 Well, Yuxi, China

YEAR
—

LIQUID
—

SUPPLY
Replacement pump



Before · 75 kW (101 hp) motor



After · 45 kW (60 hp) motor

75 kW

Before, 101 hp motor

45 kW

After, 60 hp motor

Before

The old multistage centrifugal pump had a 75 kW (101 hp) motor.

What EHIK did

An EHIK pump replaced the multistage centrifugal pump.

Result

The motor rating went from 75 kW (approx. 101 hp) to 45 kW (approx. 60 hp).

Sources: project records.

ehikpumps.com

CASE 07 · PETROCHINA SHUNAN GAS MINE

Rongxian: hot water and solvent circulation

SITE
Rongxian purification
plant, China

YEAR
2009 / 2016

LIQUID
Hot water / solvent

SUPPLY
Pump replacements



Rongxian purification plant — hot-water pump



Rongxian purification plant — solvent-circulation pump

15 → 7.5 kW

Hot-water pump motor, 20 → 10 hp

>500 kWh

electricity saved per day by the
solvent-circulation pump

Before

The original hot-water pump had a 15 kW (20 hp) motor.

What EHIK did

In 2009, the hot-water pump motor went from 15 kW (approx. 20 hp) to 7.5 kW (approx. 10 hp).

Result

In 2016, the new solvent-circulation pump saved more than 500 kWh of electricity a day.

Sources: project records.

ehikpumps.com

CASE 08 · DAQING · LONGHUPAO OILFIELD

Longhupao: a pump skid for hot-water well cleaning

SITE

Longhupao,
Daqing, China

YEAR

October–
December 2010

LIQUID

Hot water

SUPPLY

Well-cleaning
pump skid



Hot-water well-cleaning installation at Longhupao Oilfield, 2010.

>100 wells

cleaned in October–December 2010

2 fewer people

one driver and one pump operator

Before

At Longhupao Oilfield, there were not enough well-cleaning trucks, and more than 100 wells were waiting for hot-water cleaning.

What EHIK did

EHIK supplied a pitot tube pump skid for hot-water well cleaning.

Result

When there were not enough well-cleaning trucks at Longhupao Oilfield in Daqing, a pump skid did the work instead, cleaning more than 100 wells between October and December 2010.

Sources: project records.

ehikpumps.com

CASE 09 · DAQING OILFIELD CHEMICAL GROUP

Daqing: two workshops, two pump replacements

SITE

Daqing Oilfield Chemical
Group, China

YEAR

2009 / 2010

LIQUID

Boiler-feed water /
methanol residue

SUPPLY

Pump replacements



Daqing synthetic ammonia workshop — EHIK pump



Daqing methanol workshop — EHIK pumps

30 → 15 kW

Methanol pump motor, 40 → 20 hp

Over USD 28,000

a year saved on electricity,
ammonia workshop

Before

At Daqing Oilfield Chemical Group's methanol workshop, the old multistage pump had severe cavitation, often lost prime and delivered an unsteady flow.

What EHIK did

EHIK replaced the methanol-workshop pump in 2009 and the ammonia-workshop pump in 2010.

Result

Methanol workshop: stable delivery after the change.
Ammonia workshop: over USD 28,000 a year saved on electricity.

Sources: project records.

ehikpumps.com

CASE 10 · NAISITER · YUNWEI FEIHU · LONGXING

Carbon black plants: three recorded replacements

SITE	YEAR	LIQUID	SUPPLY
Naisiter / Yunwei Feihu / Longxing	—	—	Pump replacements



Naisiter · Feedstock- and fuel-oil pumps



Yunwei Feihu · Feedstock-oil pump



Longxing · Replacement pump installation



Naisiter · Connected pump and drive



Yunwei Feihu · Pump and pipework



Longxing · Plant equipment

Before

Naisiter used multistage pumps. Yunwei Feihu and Longxing used belt-connected pumping equipment.

What EHIK did

EHIK replaced the multistage arrangement at Naisiter and the belt-connected arrangements at Yunwei Feihu and Longxing.

Result

The new pumps connect to the plants' existing pipework.

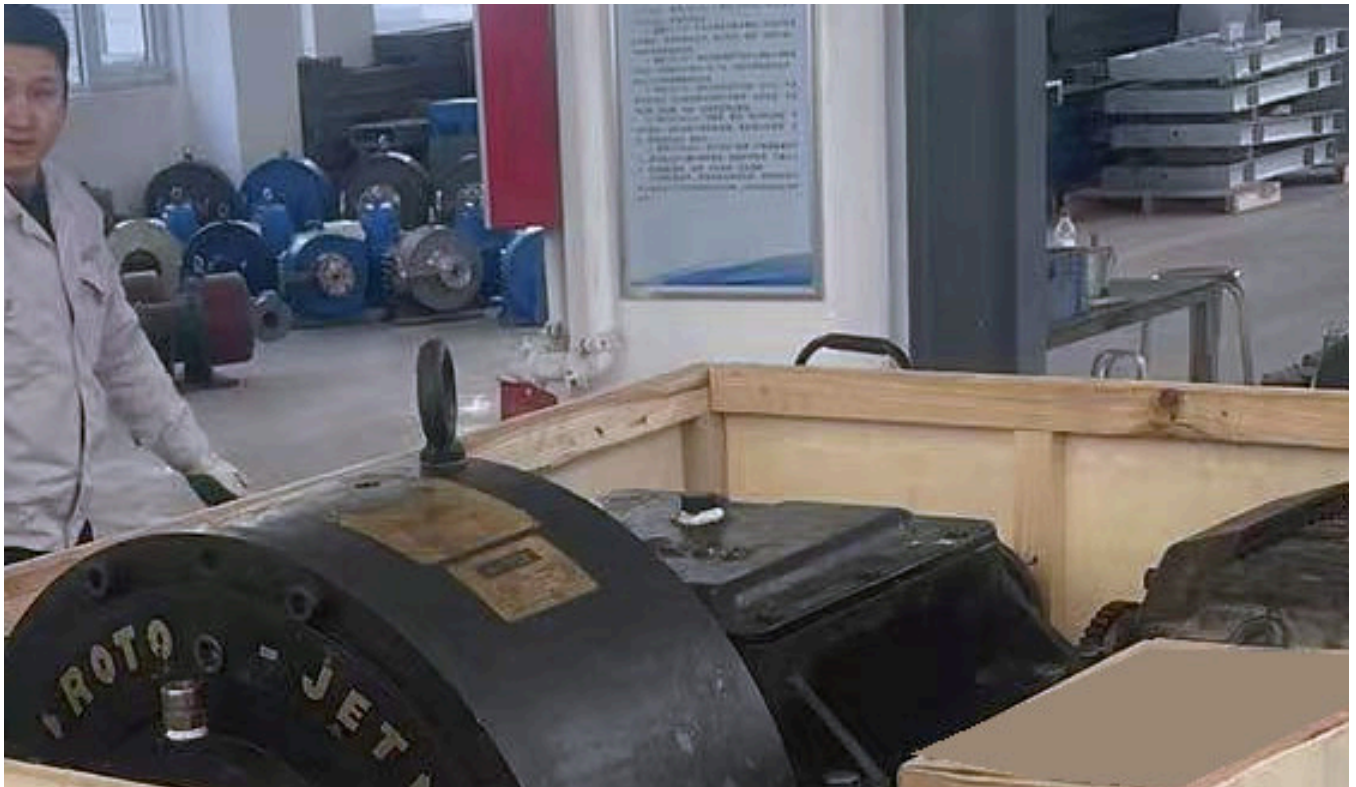
Sources: project records.

ehikpumps.com

CASE 11 · A CARBON BLACK PLANT IN TIANJIN

Tianjin: a Roto-Jet complete-pump overhaul

SITE	YEAR	LIQUID	SUPPLY
A carbon black plant in Tianjin, China	—	—	Roto-Jet pump overhaul



Roto-Jet pump at EHIK for a complete-pump overhaul.

Before

A carbon black plant in Tianjin sent its Roto-Jet pump to EHIK for a complete overhaul.

What EHIK did

We overhaul complete Roto-Jet pumps and supply replacement pickup tubes and rotor assemblies from stock.

Result

Roto-Jet users get overhauls and replacement parts from one supplier. No old pickup tube needs to be returned.

Sources: project records.

ehikpumps.com

CASE 12 · VINDA

Vinda: shower-water pumps at six factories

SITE	YEAR	LIQUID	SUPPLY
Vinda factories, China	—	Shower water	Pump sets



Felt and wire-screen shower pumps at a Vinda paper mill in China.



Vinda, China — shower-pump installation with the surrounding pipework and valves.

6 factories

Liaoning, Hubei, Yangjiang, Zhejiang, Beijing and Shandong

Before

The installations supply water for felt and wire-screen washing.

What EHIK did

EHIK pump sets supply water for felt and wire-screen cleaning at Vinda's paper mills, through the headers and valves.

Result

At Vinda, the pump sets are part of the mill's felt and wire-screen washing system, installed next to the paper machine.

Sources: project records.

ehikpumps.com

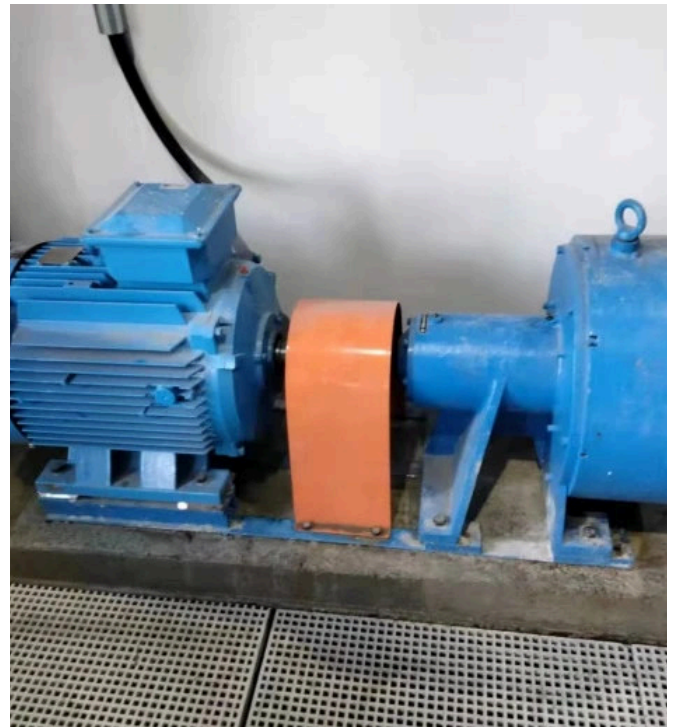
CASE 13 · XIAWANG PAPER

Xiawang Paper: cutting and central flushing

SITE	YEAR	LIQUID	SUPPLY
Xiawang Paper, Zhejiang, China	—	Water	Separate pump installations



EHIK pump sets serving the water-needle cutting application at Xiawang Paper.



A separate EHIK pump serving the mill's flushing-water circuit.

Before

The mill uses water-needle cutting and central-flushing water circuits.

What EHIK did

Separate EHIK pump installations serve the water-needle cutting and central-flushing applications at Xiawang Paper.

Result

The pump sets supply a small flow of high-pressure water to the cutting nozzles.

Sources: project records.

ehikpumps.com

EHIK PUMPS

TECHNICAL SUPPORT

Email: sales@ehikpump.com · info@ehikpumps.com

WhatsApp: +86 159 9881 1069

Website: ehikpumps.com

Factory: Gu'an Industrial Park, Hebei Province 065500, China



ehikpumps.com

Scan or click to visit our website