

OIL AND GAS FIELDS

Produced-water pumps and pump skids

High-head, low-flow pumping for produced water, contaminated oil and field services. As a pump set or an unattended skid.



39.5%

less electricity after replacing a multistage pump at Kong 6 Well

3 years

of good service in the desert before a repeat order

**PetroChina
Sinopec**

are among our oil and gas customers

WHERE THE PUMP FITS

Different liquids, different field needs

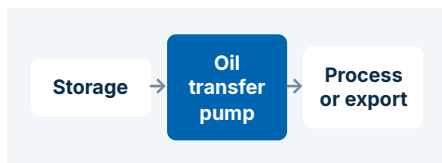
Your liquid, the flow and pressure you need, and your site decide what goes into the pumping package.



MAIN APPLICATION

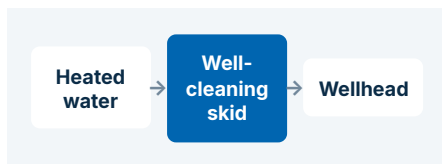
Produced water: transfer and reinjection

Gas, sand, salts and corrosive substances decide the materials, wear protection and inlet arrangement.



Contaminated oil

The pump is matched to the liquid composition, temperature, inlet conditions and how it runs.



Hot-water well cleaning

A dedicated pump skid gives the flow and pressure for well cleaning.



SHUNAN GAS FIELD · 2024

Gas-field water transfer

Pumps and drives are integrated with the surrounding vessels, pipework, valves and instruments.

High head in one stage

Up to 1,050 m (3,445 ft) of head from one rotating stage, with no multiple impeller stages to wear.

Copes with some gas and sand

As the gas content rises, flow and head fall gradually. Wear-resistant pickup tubes are available for liquids with hard particles.

Unattended packages

Maintenance-free packages with automatic level-based control let remote sites run without an operator.

Less site construction

Skids need no dedicated concrete foundation or anchor bolts. Connect the pipework and power, and start pumping.

FEATURED PROJECT · PETROCHINA, TARIM OILFIELD

One skid in 2022. Two more ordered in 2025.

An enclosed pumping package for PetroChina's desert project in the Hotan area of Xinjiang.



Original installation — Hotan, Xinjiang, 2022.

1 skid

ordered for the Hotan project in 2022

3 years

of successful operation before the repeat order

2 more

unattended skids ordered in 2025



INSIDE THE EQUIPMENT

Pipework, controls and equipment access

The open enclosure shows the valves, instruments, control panels and connected pipework. Because these are assembled before delivery, there is less work to do on site.

REAL INSTALLATIONS

Gas-field water pumps in service

These installations show EHIK pumps connected with vessels, operating valves, instruments and the site's water-handling pipework.



MOXI DEVELOPMENT AREA · 2019

Multiple pump sets and common pipework are arranged on the installation platform.



CHUANZHONG OIL & GAS MINE · 2024

The pump, vessel, operating valves and instrumentation are arranged beneath a site shelter.

From contaminated oil to well-cleaning water



DAQING OILFIELD

Contaminated oil

Oil with sediment and polymers made the old transfer equipment hard to run. An EHIK pump was installed for this transfer and ran stably after installation.



LONGHUPAO OILFIELD, DAQING · 2010

Hot-water well cleaning

When there were not enough well-cleaning trucks, a pump skid cleaned more than 100 wells between October and December 2010. Compared with a plunger-pump hot-washing truck: 30 litres (7.9 US gal) less fuel per well and two fewer workers.

Recorded conditions at Longhupao: 5–20 m³/h (22–88 US gpm) · 3–5 MPa (435–725 psi) · 37 kW (50 hp).

EXISTING-EQUIPMENT UPGRADE

39.5% less electricity for the same water volume

In 2015, EHK replaced the multistage pump at Kong 6 Well in PetroChina's Shunan Gas Mine. After the replacement, the pump ran steadily and needed fewer repairs.



Multistage centrifugal pump · 90 kW (121 hp) motor



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

Kong 6 Well, PetroChina Shunan Gas Mine, Zigong · 2015. Site meter readings and project records.

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

More replacements at Shunan Gas Mine

SITE	CHANGE	RECORDED RESULT
Wei 001-H1 Well · Leshan · 2014	Motor 90 → 45 kW (121 → 60 hp)	23.5% less electricity per m ³ (264 US gal) of gas-field water
Jing 4 Central Station · Luzhou	Multistage pump replaced	48.3% less electricity per 10,000 m ³ (2.64 million US gal) of water
Bao 46 Well · Yuxi	Motor 75 → 45 kW (101 → 60 hp)	A smaller motor for the same duty
Rongxian purification plant · 2009 / 2016	Hot-water pump 15 → 7.5 kW (20 → 10 hp)	Solvent-circulation pump saves more than 500 kWh a day

Meter readings and project records. Results depend on the duty: a fair comparison uses measured power, volume pumped and running hours under the same conditions.

PLANNING A NEW INSTALLATION

Know the conditions. Then define the package.

Pump selection and site layout should be discussed together. EHIK can supply a complete pump set or a skid with the supporting equipment your project needs.

Liquid and operating conditions

Flow, pressure, liquid temperature and inlet conditions define the pumping requirements. H₂S, CO₂, chlorides, salts, sand and gas content influence materials, wear protection and the inlet arrangement.

Control and continuous delivery

Tank-level signals, automatic start/stop and the production range decide the control setup. Variable-speed control adjusts the pumping rate to changing demand.

Equipment and site connections

Choose an open-frame or enclosed arrangement. Agree the power supply, control signals, piping interfaces, instrumentation and equipment access before manufacture.



PUMP SET OR SKID?

We help define what is included

A pump set brings together the pump and drive on a baseplate. A skid can also include vessels, pipework, valves, instruments and controls.

Gas and liquid together? The gas-liquid package separates gas and liquid in the vessel and joins them again after the pump, which helps reduce emissions.

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Send us your liquid, flow and pressure.

We reply within 1 business day.

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