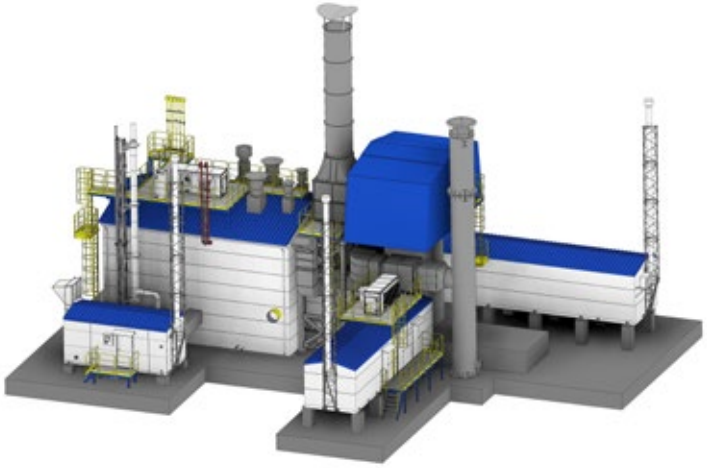
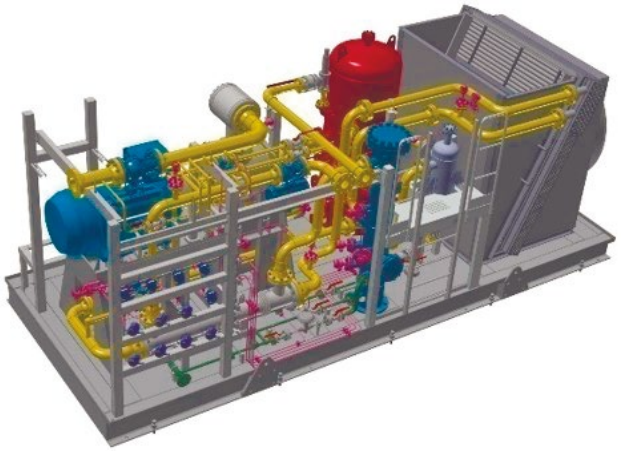
# INGC COMPANY PROJECTS

INGC

# PRODUCT LINE

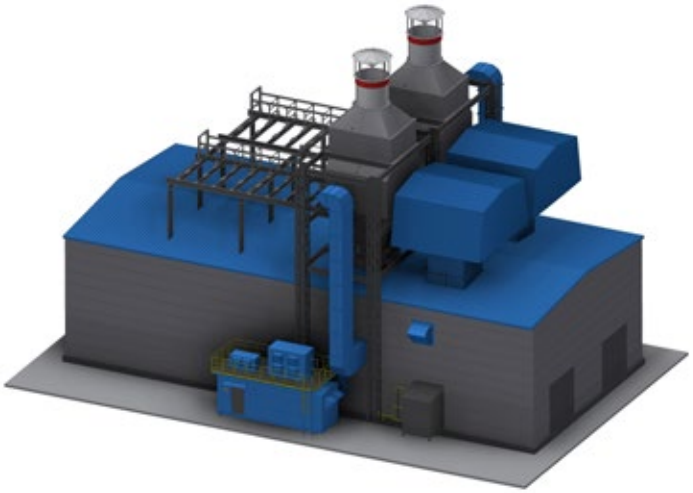


**CENTRIFUGAL COMPRESSOR UNITS**



**SCREW COMPRESSOR UNITS**

**RECIPROCATING COMPRESSOR UNITS**



**GAS TURBINE POWER UNITS**

# CENTRIFUGAL COMPRESSOR PROJECTS

| № | Site | Customer | Application | Compressor system | Power, MW | P suct, MPa | P d, MPa | Flow | № of CS | Year of supply |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | **Vankor field**<br>Krasnoyarsk region, Russia (Rosneft) | Vankorneft JSC (NK Rosneft JSC) | Booster compressor station | Compressor: Thermodyn 2BCL408/A (GE)<br>Gas turbine: NK-16-18ST (KMPO, Russia) | **16** | 1,7 | 8,3 | $4,9*10^9$ normal $m^3$/ year | **5** | **2012** |
| 2 | **Yuzhno-Russkoe field**<br>Tyumen' region, Russia (Gazprom) | Severneftegazprom LLC for (Gazprom, PJSC) | Booster compressor station | Compressor: Ural (Iskra, Russia)<br>Gas turbine: GTU–16 (PMZ, Russia) | **16** | 0,9 | 7,4 | $25,1*10^9$ normal $m^3$/ year | **4** | **2015** |
| 3 | **Beregovoe field**<br>Tyumen' region, Russia (Rosneft) | Sibneftegaz, OJSC (NK Rosneft JSC) | Booster compressor station | Compressor: Ural (Iskra, Russia)<br>Gas turbine: NK-16-18ST (KMPO, Russia) | **16** | 3,85 | 7,45 | $28,9*10^6$ normal $m^3$/ day | **2** | **2016** |
| 4 | **Pipeline TIP-2 between main gas pipeline «BGR-TBA» и main gas pipeline «Kazakhstan-China»**<br>Kazakhstan<br>(InterGas Central Asia) | KazTransGaz JSC (Kazakhstan) | Booster compressor station | Compressor: Thermodyn BCL356/A (GE)<br>Gas turbine: NK-16-18ST (KMPO, Russia) | **16** | 2,5 | 9,8 | $9,8*10^9$ normal $m^3$/ year | **2** | **2016** |
| 5 | **Urengoyskiy ZPKT (Petrochemical plant)**<br>Tyumen region, Russia | Gazprom Pererabotka LLC (Gazprom PJSC) | Gas treatment | Compressor: Siemens STC-SV(08-4-A)<br>Gas turbine: GTU–6PG (PMZ, Russia) | **10** | 1,75 | 7,2 | 161 293 normal $m^3$/h | **2** | **2017** |
| 6 | **Urengoyskiy ZPKT (Petrochemical plant)**<br>Tyumen' region, Russia | Gazprom Pererabotka LLC (Gazprom PJSC) | Gas treatment | Compressor: Siemens STC-SV(08-4-A)<br>Gas turbine: GTU–6PG (PMZ, Russia) | **6** | 2,14 | 7,2 | 73 060 normal $m^3$/h | **1** | **2017** |
| 7 | **Suzunskoe gas field**<br>Krasnoyarsk region, Russia (Rosneft) | Suzun JSC (NK Rosneft JSC) | Booster compressor station | Compressor: Nuovo Pignone 2BCL456 (GE)<br>Gas turbine: NK-16-18ST (KMPO, Russia) | **16** | 0,4 | 6 | 74 762 normal $m^3$/h | **2** | **2018** |

| № | Site | Customer | Application | Compressor system | Power, MW | P suct, MPa | P d, MPa | Flow | № of CS | Year of supply |
|---|---|---|---|---|---|---|---|---|---|---|
| **8** | **Samantape field** (Uzbekistan) | Enter Engineering Pte Ltd (Uzbekistan) | Booster compressor station | Compressor: Thermodyn 2BCL406 (GE)<br>Gas Turbine: Taurus 70 (Solar Turbines) | **8** | 4,3 - 0,9 | 5,6 | $10*10^6$ normal $m^3$/ day | **2** | **2018** |
| **9** | **Pipeline TIP-2 between main gas pipeline «BGR-TBA» и main gas pipeline «Kazakhstan-China»** Kazakhstan (InterGas Central Asia) | KazTransGaz JSC (Kazakhstan) | Booster compressor station | Compressor: Thermodyn BCL356/A (BHGE)<br>Gas Turbine: Taurus 70 (Solar Turbines) | **16** | 2,5 | 9,8 | $9,8*10^9$ normal $m^3$/year | **1** | **2019** |
| **10** | **Yaraktinskoye field,** Irkutsk region, Russia | Irkutsk Oil Company LLC | Booster compressor station | Compressor: Solar Turbines C61, C51, C16<br>Gas turbine: SOLAR Titan 130 CS | **16** | 0,55 | 25,1 | 4,0 normal $m^3$/year | **2** | **2019** |
| **11** | **Ety-Purovskoe field** Tyumen' region, Russia | Gazprom Dobycha Noyabrsk LLC (Gazprom PJSC) | Booster compressor station | Compressor: ЦБК250-2,2/2,1-6500/10,5SMP-REP Holding JSC<br>Electric motor: HSCR900Y2Nidec ASI S.p.A. | **10,5** | | | | **3** | **2019** |
| **12** | **Yuzhno-Russkoe Field, 2nd stage** Tyumen' region, Russia (Gazprom) | Severneftegazprom LLC | Booster compressor station | Compressor: Ural (Iskra, Russia)<br>Gas turbine: GTU–16 (PMZ, Russia) | **16** | 1,77 | 7,5 | 6,05 – $19,26*10^6$ normal $m^3$/day | **6** | **2020** |
| **13** | **«LUKOIL – Volgogradnefte-pererabotka» petrochemical factory** | LUKOIL – Volgogradnefte-pererabotka LLC | Propane compressor unit | Compressor: Thermodyn BCL304 (BHGE)<br>Electric motor: Siemens | **1,7** | 0,6 | 2,1 | 20 560 normal $m^3$/h | **1** | **2020** |
| **14** | **Povhovskoe field** Modernization of gas compressor station, Khanty-Mansiysk, Russia | LUKOIL – West Syberia, LLC | Field gas booster | Compressor: Thermodyn 2BCL457 (BHGE), Nuovo Pignone<br>Electric motor: ET900V2Nidec ASI S.p.A.Motors and Generators-Monfalcone (GO), Italy | **4** | 0,03 | 3,02 | 20 000 normal $m^3$/h | **3** | **2021 - 2022** |

| № | Site | Customer | Application | Compressor system | Power, MW | P suct, MPa | P d, MPa | Flow | № of CS | Year of supply |
|---|---|---|---|---|---|---|---|---|---|---|
| **15** | **Gazromneft-Noyabrsk-neftegaz** | Gazromneft - Noyabrskneftegaz | Field gas booster | Compressor (General Electric): Thermodyn 2ICL254<br>Electric Motor | **0,33** | 0,002 | 0,81 | 1 903 normal $m^3/h$ | **1** | **2021** |
| **16** | **Ichedinskoe field**<br>Irkutsk region, Russia | Irkutsk Oil Company, LLC | Booster compressor station | Compressor: Solar Turbines C61, C51, C16,<br>Gas turbine: Solar Turbines Titan 130 | **16** | 0,55 | 25,1 | $4,0* 10^6$ normal $m^3/day$ | **2** | **2021** |
| **17** | **Alan Gas field**<br>(Uzbekistan) | Enter Engineering Pte Ltd for Uzbekneftegaz JSC | Booster compressor station | Compressor: Nuovo Pignone BCL504 (Baker Hughes)<br>Gas Turbine: AI-336-8 (Motor Sich, Ukraine) | **8** | 1,18 – 0,53 | 1,7 – 0,9 | $9,14 – 2,09*10^6$ normal $m^3/day$ | **2** | **2021** |
| **18** | **Zevardy Gas field**<br>(Uzbekistan) | Enter Engineering Pte Ltd for Uzbekneftegaz JSC | Booster compressor station | Compressor: Nuovo Pignone BCL504 (Baker Hughes)<br>Gas Turbine: AI-336-8 (Motor Sich, Ukraine) | **8** | 1,38 – 0,61 | 2,3 - 2,0 | $9,55 – 3,09 *10^6$ normal $m^3/day$ | **2** | **2021** |
| **19** | **Dengizkul Gas field**<br>(Uzbekistan) | Enter Engineering Pte Ltd for Uzbekneftegaz JSC | Booster compressor station | Compressor: Thermodyn 2BCL608 (Baker Hughes)<br>Gas Turbine: Nova16 (Baker Hughes) | **16** | 1,83 - 0,5 | 5 | $5,17-1,52 *10^6$ normal $m^3/day$ | **2** | **2021** |
| **20** | **Khabarovskiy NPZ**<br>Khabarovsk, Russia | Khabarovskiy NPZ, LLC for Nezavisimaya neftyanaya kompaniya, OAJ | ECCU for circulation of hydrogen-containing gas | Compressor: Thermodyn BCL404<br>Electric motor: Siemens 1NB1 564-4AA60-4AG0 | **1,7** | 1,9 | 2,9 | 67 000 normal $m^3/day$ | **2** | **2021-2022** |
| **21** | **Arniez Gas field**<br>(Uzbekistan) | Enter Engineering Pte Ltd for Uzbekneftegaz JSC | Booster compressor station | Compressor: 2BCL608 Baker Hughes, Nuovo Pignone<br>Gas Turbine: NovaLT16 Baker Hughes, Nuovo Pignone | **16** | 0,5 | 5 | 3,50 normal $m^3/day$ | **2** | **2021-2022** |

| № | Site | Customer | Application | Compressor system | Power, MW | P suct, MPa | P d, MPa | Flow | № of CS | Year of supply |
|---|---|---|---|---|---|---|---|---|---|---|
| **22** | **CS Bozoy**<br>(Kazakhstan) | Solar Turbines | Booster compressor station | Compressor: C51MH Solar Turbines<br>Gas Turbine: Titan 130 S Solar Turbines | **16** | | | | **3** | **2022** |
| **23** | **Angarsk**<br>Eastern Siberia, Russia | Angarskiy zavod polimerov OAJ (Rosneft) | | Compressor: Howden CKD Compressors 4RVA78+ 7RMA88+ 5RCA56CKD<br>Steam turbine: Siemens SST600 V500 | **25** | 0,1 | 3,6 | | **1** | **2021-2022** |
| **24** | **Bovanenkovskoe field**<br>Yamal, Russia | Kurgankhimmash LLC (Gazpromneft-Zapolyarye LLC) | Gas compression | Compressor: НЦ-8ДКС «Ural» (NPO Iskra PJSC)<br>Driver: НК-14СТ (PJSC «UEC-Kuznetsov») | **8** | 2,1 | 5 | 6,42*10⁶ normal m³/day | **2** | **2023** |
| **25** | **Yuzhno-Tambeyskoye field**<br>Yamal, Russia | Kazancompressor-mash JSC (YAMAL LNG) | | Driver: GTU-25P with PS-90GP-25 engine (Perm Motors) | **25** | | | | **6** | **2023** |
| **26** | **DKS-3 Novourengoysky LU** | ROSPAN INTERNATIONAL JSC | Booster compressor station | Compressor: НЦ-16ДКС/45 (NPO Iskra PJSC)<br>Driver: GTU-16П с GTE ПС-90ГП-2 (UEC-Perm motors JSC) | **16** | 1,3 | 4,2 | 7,088 million m³/day | **2** | **2024** |
| **27** | **Ilsky Refinery** | KNGK-INPZ LLC | Isomerization Circulation Compressor | Compressor: BCH356 (Hitachi Industrial)<br>Driver: Electric motor ЦКМ-1201 (Hoffmann Technics AG, Switzerland) | **2** | 2,55 | 3,85 | 1,94 milllion m³/day | **1** | **2024** |
| **28** | | | Reforming Circulation Compressor | Compressor: BCH809 (Hitachi Industrial)<br>Привод: Steam turbine Ц6-R7 (Hitachi Industrial) | **6** | 0,23 | 0,75 | 2,720 milllion m³/day | **1** | **2024** |

# YUZHNO-RUSSKOYE OIL, GAS AND CONDENSATE FIELD

**Centrifugal gas compressor units** for operation of the booster compressor workshop, in terms of extension for Yuzhno-Russkoye oil and gas field

**Drive:** Gas turbine GTU-16PA (UEC-Aviadvigatel JSC)
**Compressor:** Centrifugal NC-16 DCS-02 «Ural» (Iskra PJSC)
**Capacity:** 16 MW
**Discharge pressure:** 7,4 MPa (g)
**Production rate:** 25,1 billion normal $m^3$/year

Severneftegazprom LLC (2012-2020) (Gazprom)

**Number of units:**
**14** centrifugal gas compressor units

**Works on site:**

Installation and commissioning of GCU with a drive, compressor and hangar, replacement of the compressor bundles

# AKYRTOBE BOOSTER COMPRESSOR STATION

**Centrifugal gas compressor units** in individual shelters for boosting compressor station «Akyrtobe», Kazakhstan

**Drive:** NK-16-18STD (KMPO JSC, Kazan)
**Compressor:** BCL356/A
(Thermodyn, GE Oil & Gas)
**Capacity:** 18 MW
**Discharge pressure:** 9,8 MPa (abs)
**Production rate:**
1,986 billion normal $m^3$/year

KazTransGaz LLC (2016-2018)

**Number of units:**
**3** centrifugal gas compressor units «Irtysh»


**Works on site:**

Installation and commissioning of GCU with a drive, compressor and hangar, replacement of the compressor bundles

# MODERNIZATION OF URENGOY GAS TREATMENT PLANT

**Centrifugal gas compressor units** in the common shelter

**Drive:** PS-90GP and D-30EU-6 (UEC-Aviadvigatel JSC)
**Compressors:** STC-SV (Siemens)
**Capacity:** 10 and 6 MW
**Discharge pressure:** 7,3/7,3 MPa
**Production rate:** 170276 and 76494 $m^3/h$

Gazprom Pererabotka LLC (2017-2018) (Gazprom)

**Number of units:**
**2** centrifugal gas compressor units «Irtysh» - 10MW
**1** centrifugal gas compressor units «Irtysh» - 6MW

**Works on site:**

Erections supervision, installation and commissioning of GCU with a drive, compressor and hangar shelter

# SAMANTEPE COMPRESSOR STATION

**Centrifugal gas compressor units**
Further development of Semantepe field.
Yuzhny Urtobulok

**Drive:** Taurus 70 (Solar Turbines)
**Compressor:** 2BCL 406 (Thermodyn, BHGE)
**Capacity:** 7,8 MW
**Discharge pressure:** 5,5 MPa
**Production rate:** 10 mln normal $m^3/d$

Enter Engineering Pte Ltd (2019)
(Uzbekneftegaz)

**Number of units:**
**2** centrifugal gas compressor units «Irtysh»

**Works on site:**

Erections supervision and commissioning
of GCU with a drive

# ALAN / ZEVARDY COMPRESSOR STATION (UZBEKISTAN)

**Centrifugal gas compressor units** in the block-module design

**Drive:** AI-336-2-8 (Motor Sich JSC)
**Compressor:** PCL504 (Baker Hughes)
**Capacity:** 8 MW
**Discharge pressure:** 1,7 – 0,9 MPa
**Production rate:**
9,55 – 3,09 mln $m^3$/d Zevardy
9,14 – 2,09 mln $m^3$/d Alan

Enter Engineering Pte Ltd (2019)
(Uzbekneftegaz)

**Number of units:**
**4** centrifugal gas compressor units «Irtysh»

**Works on site:**

Erections supervision and commissioning of GCU with a drive

# DENGIZKUL COMPRESSOR STATION (UZBEKISTAN)

**Centrifugal gas compressor units** in the block-module design

**Drive:** GTU-16 Nova 16LT (Baker Hughes)
**Compressor:** 2BCL608 (Baker Hughes)
**Capacity:** 16 MW
**Discharge pressure:** 1,83 - 0,5 MPa
**Production rate:** 1,52-5,17 mln $m^3$/d

Enter Engineering Pte Ltd (2022)
(Uzbekneftegaz)

**Number of units:**
**2** centrifugal gas compressor units «Irtysh»

**Works on site:**

Erections supervision and commissioning of GCU with a drive

# POVKHOVSKOYE FIELD

**Electrically driven gas compressor units**
in the block-module design

**Drive**: ET900V2 (Nidec ASI SpA-Motors, Generators&Drives, Monfalcone)
**Compressor**: 2BCL457
( Nuovo Pignone, Baker Hughes)
**Capacity:** 4 MW
**Discharge pressure**: 3,02 MPa (g)
**Production rate**: 20001 normal $m^3/h$

Lukoil (2021)

**Number of units:**
**3** electrically driven gas compressor units «Irtysh»

**Works on site:**

Installation supervision, commissioning, commissioningof the facility

# VOLGOGRAD

**Electrically driven gas compressor unit**
in frame

**Drive**: 1NB1 564-4AA60-4AGO (Siemens)
**Compressor**: BCL304 (Thermodyn, BHGE)
**Capacity:** 1,7 MW
**Discharge pressure**: 2,1 MPa (g)
**Production rate**: 20560 normal $m^3/h$

Lukoil PJSC (2021)

**Number of units:**
**1** electrically driven gas compressor unit «Irtysh»

**Works on site:**

Installation supervision and commissioning

# NOYABRSKNEFTEGAS

**Packaged modular compressor unit**
based on the integrated centrifugal ICL motor-compressor

**Motor-Compressor**: ICL (Thermodyn, BHGE)
**Capacity:** 0,33 MW
**Discharge pressure**: 0,81 MPa (g)
**Production rate**: 1903 normal $m^3/h$

Gazprom Neft PJSC (2021)

**Number of units:**
**1** packaged modular compressor unit
The first in Russia

**Works on site:**

Installation supervision and commissioning

# GAS TURBINE POWER UNITS PROJECTS

| № | Site | Customer | Application | Compressor system | Power, MW | Number | Year of supply |
|---|---|---|---|---|---|---|---|
| 1 | **Ichedinskoe Field**<br>Irkutsk region, Russia | Irkutsk Oil Company LLC | Booster compressor station | Turbo generator: KATO<br>Gas turbine: Taurus 60 GS | **6** | 2 | **2016** |
| 2 | **Ichedinskoe Field**<br>Irkutsk region, Russia | Irkutsk Oil Company LLC | Booster compressor station | Turbo generator: Series E (Elektrotyazhmash-Drive LLC)<br>Gas turbine: D-30KU/KP «Saturn GT» | **6** | 2 | **2017** |
| 3 | **Bovanenkovskoe Field**<br>Yamal, Russia | Gazprom | Booster compressor station | Turbo generator: ТС-12-2РУХЛ3 (Elektrotyazhmash-Drive LLC)<br>Gas turbine: GTU-12PG-2 (UEC-Perm Engines JSC) | **12** | 2 | **2021** |

# ICHEDINSKOYE FIELD

Complete gas turbine power units of block-modular design

**Drive:** Taurus 60 GS (Solar Turbines)
**Generator unit:** Taurus 60 (Solar Turbines)
**Capacity:** 5,7 MW

Irkutsk Oil Company LLC (2016)

**Number of units:**
**2** gas turbine power units «Irtysh»

**Works on site:**

Erection supervision and commissioning of gas turbine power units

# ICHEDINSKOYE FIELD

Complete gas turbine power units of block-modular design

**Drive:** Taurus 60-7901 (Solar Turbines)
**Generator unit:** Taurus 60 (Solar Turbines)
**Capacity:** 5,74 MW
**Rated voltage:** 6,3 kV

Irkutsk Oil Company LLC (2018)

**Number of units:**
**2** gas turbine power units «Irtysh»

**Works on site:**

Erection supervision and commissioning of gas turbine power units

# BOVANENKOVSKOE GAS FIELD

Complete gas turbine power units of block-modular design

**Drive:** GTU-12PG-2 (UEC-Perm Engines JSC)
**Generator unit:** TC-12-2РУХЛ3 (Elektrotyazhmash-Privod LLC)
**Capacity:** 12 MW

Gazprom dobycha Nadym LLC (2022)

**Number of units:**
**2** gas turbine power units «Irtysh»

**Works on site:**

Erection supervision and commissioning of gas turbine power units

# RECIPROCATING COMPRESSOR PROJECTS

| № | Site | Name | Customer | Application | Compressor system | Power, MW | P suct, MPa | P d, MPa | Flow | № of CS | Year of supply |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | **Angarsk petrochemical plant** Irkutsk region, Russia (Rosneft) | Product hydrogen plant | Angarsky Petrochemical Plant (NK Rosneft JSC) | Hydrogen | Compressor: GE Nuovo Pignone 2HG/2<br>Steam turbine: GE Nuovo Pignone SC1-6 | **4** | 1,93 | 9,1 | 110000 normal $m^3/h$ | **3** | **2013** |
| 2 | **Kovykta field** Irkutsk Region, Russia (Gazprom) | RCU-006 | Gazprom | Membrane gas separation station | Compressor: Ariel JG/4<br>Electric motor: Siemens | **0,25** | 0,03 | 9,8 | 1100 normal $m^3/h$ | **1** | **2013** |
| 3 | **Ust-Kharampur field** Tyumen' region, Russia (Rosneft) | RCU-007 | NK Rosneft JSC | Field gas utilization | Compressor: Ariel JGJ/4<br>Electric motor: Siemens | **0, 56** | 0,01 | 2,8 | 2400 normal $m^3/h$ | **1** | **2014** |
| 7 | **Otradnensk gas treatment plant** Samara region, Russia (Rosneft) | RCU-011 | Otradnensky Gas Treatment Plant (NK Rosneft JSC) | Gas treatment | Compressor: Ariel JGC/4<br>Gas engine: Caterpillar G3608 | **1,8** | 0,55 | 3,7 | 18000 normal $m^3/h$ | **2** | **2014** |
| 8 | **Otradnensk gas treatment plant** Samara region, Russia (Rosneft) | RCU-012 | Otradnensky Gas Treatment Plant (NK Rosneft JSC) | Gas treatment | Compressor: Ariel JGT/4<br>Gas engine: Caterpillar G3520 | **1,2** | 1,7 | 4,5 | 23000 normal $m^3/h$ | **2** | **2014** |
| 9 | **Neftegorsk gas treatment plant** Samara region, Russia (Rosneft) | RCU-014 | Neftegorsky Gas Treatment Plant (NK Rosneft JSC) | Gas treatment | Compressor: Ariel JGC/4<br>Electric motor: LOHER DHRL-800LB-06A | **2,5** | 0,55 | 3,7 | 29000 normal $m^3/h$ | **3** | **2014** |
| 10 | **Urubcheno-Tohomsk field** Krasnoyarsk region, Russia (Rosneft) | RCU-008 | Vostsib-neftegaz, JSC for (PJSC Rosneft) | Injection | Compressor: Ariel KBU/6<br>Gas engine: Caterpillar G3616 LE | **3,7** | 0,6 | 28 | 23060 normal $m^3/h$ | **12** | **2015** |

| № | Site | Name | Customer | Application | Compressor system | Power, MW | P suct, MPa | P d, MPa | Flow | № of CS | Year of supply |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **11** | **Kovykta field** Irkutsk Region, Russia (Gazprom) | RCU-015 | Gazprom Dobycha Irkutsk LLC | Injection | Compressor: Ariel JGK/2<br>Electric motor: Siemens DHSL-500LK-08A | **0,4** | 9 | 25 | 8250 normal $m^3/h$ | **3** | **2015** |
| **12** | **Akyrtobe field** (InterGas Central Asia, Kazakhstan) | RCU-002 | KazTransGaz JSC | Seal gas booster | Compressor: Ariel JGP/1<br>Electric motor: ELDIN BA225M8FБУ 2,5 | **0,03** | 2,5 | 8,5 | 230 normal $m^3/h$ | **2** | **2016** |
| **13** | **Pyreynoe gas field** Tyumen' region, Russia (Rosneft) | RCU-016 | Sibneftegaz, LLC (PJSC Rosneft) | Field gas utilization | Compressor: Ariel KBZ/4<br>Gas engine: Caterpillar G3612LE | **2,7** | 4,4 | 11,19 | 26000 normal $m^3/h$ | **1** | **2017** |
| **14** | **Chinarevskoe gas field** (Kazakhstan) | RCU-017 | MSI | Field gas utilization | Compressor: Ariel JGJ/6<br>Electric motor: Siemens 1SG645 44JJ80-Z | **1** | 0,3 | 4,2 | 12 000 normal $m^3/h$ | **3** | **2018** |
| **16** | **Beregovoe gas field** YNAO Region, Russia (Gazprom) | RCU-018 | Gazprom-mash, LLC | Seal gas booster | Compressor: Ariel JGP/1<br>Electric motor:ELDIN BA225M8FБУ 2,5 | **0,03** | 5,5 | 11 | 1200 normal $m^3/h$ | **2** | **2019** |
| **17** | **Urubcheno-Tohomsk field** Krasnoyarsk region, Russia (Rosneft) | RCU-009 | Vostsib-neftegaz, JSC (PJSC Rosneft) | Field gas utilization | Compressor: Ariel KBZ/4<br>Gas engine: Caterpillar G3612 | **3,65** | 0,5 | 4,4 | 41400 normal $m^3/h$ | **1** | **2020** |
| **18** | **Urubcheno-Tohomsk field** Krasnoyarsk region, Russia (Rosneft) | RCU-010 | Vostsib-neftegaz, JSC (PJSC Rosneft) | Field gas utilization | Compressor: Ariel KBZ/4<br>Electric motor: Siemens DHNL-910MC-06A | **3,5** | 0,5 | 4,4 | 41400 normal $m^3/h$ | **1** | **2020** |
| **19** | **Chinarevskoe gas field, 2 stage** (Kazakhstan) | RCU-017 | MSI | Field gas utilization | Compressor: Ariel JGJ/6<br>Electric motor: Siemens 1NB1506-4AA804AA0-Z | **1** | 0,3 | 4,2 | 12000. normal $m^3/h$ | **1** | **2020** |

| № | Site | Name | Customer | Application | Compressor system | Power, MW | P suct, MPa | P d, MPa | Flow | № of CS | Year of supply |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **20** | **Ichedinskoe gas field** Irkutsk Region, Russia (Gazprom) | RCU-019 | Gazprom-mash, LLC for Irkutsk oil company LLC | Fuel and seal gas for Solar Turbines | Compressor: Ariel JGJ/4<br>Electric motor: ELDIN BA355MLC4БУ2,5 | **0,45** | 0,3 | 2,5 | 4600 normal $m^3/h$ | **1** | **2020** |
| **21** | **Off-shore oil platform** Cameroon republic | RCU-020 | Perenco Rep S.A.R.L. (France) | Field gas preparation | Compressor: COOPER CFH64<br>Electric motor: Nidec CT 500 Y6 | **1,4** | 0,3 | 8,5 | 9.417 normal $m^3/h$ | **2** | **2021** |
| **22** | **Evo-Yahinskoe gas field** YNAO Region, Russia | RCU-022 | NOVATEK-Yurkharov-neftegaz LLC | Field gas preparation | Compressor: Ariel JGJ/6<br>Electric motor: Siemens | **1** | 2,8 | 7,5 | 36000 normal $m^3/h$ | **2** | **2021** |
| **23** | **Yuzhnaya Tandyrcha** (Uzbekistan) | RCU-023 | Uzbekneftegaz JSC | Field gas preparation | Compressor: COOPER WH74<br>Electric motor: Superior SGTD16 | **1,92** | 0,2 | 2,4 | 1916 normal $m^3/h$ | **3** | **2021** |
| **24** | **Installation «Synthesis gas»** (Aerofuels) | RCU-024 | RUSOKSO LLC (LLC TZK Aerofuels) | Field gas preparation | Compressor: Burckhardt 2D12 | **0,32** | 1,45 | 17,5 | 3800 kg/h | **1** | **2022** |
| | | RCU-025 | | | Compressor: Burckhardt 2D16 | **0,56** | 7,2 | 32 | 2600 kg/h | **2** | |
| | | RCU-026 | | | Compressor: Burckhardt 4M10 | **0,5** | 2,95 | 23,4 | 2800 kg/h | **2** | |
| | | RCU-027 | | | Compressor: Burckhardt 2D3.5<br>Electric motor: Siemens | **0,037** | 1,39 | 11,2 | 370 kg/h | **1** | |
| **25** | **Chinarevskoe gas field** (Kazakhstan) | RCU-028 | MSI | Field gas utilization | Compressor: Ariel JGJ/6<br>Electric motor: Siemens 1NB1506-4AA804AA0-Z | **1** | 0,3 | 4,2 | 12000 $м^3/h$ | **1** | **2022** |

| № | Site | Name | Customer | Application | Compressor system | Power, MW | P suct, MPa | P d, MPa | Flow | № of CS | Year of supply |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **26** | **Kharyaginskoye gas field**<br>YNAO Region, Russia | RCU-030 | Zarubezhneft-dobycha Kharyaga LLC | Field gas preparation | Compressor: 2SHMB/2 Nuovo Pignone<br>Electric motor: ABB AND 500 M6R BABM | **1** | 0,28 | 2,1 | 10525 kg/h | **1** | **2023** |
| **27** | **Harbeyskoye gas field**<br>YNAO Region, Russia | RCU-031 | NOVATEK-TARKOSALE-NEFTEGAZ LLC | Field gas utilization | Compressor: 2ГМ18-16/7-31 (Penzkompressormash JSC)<br>Driver: Electric motor YB3-500-10 (Wolong) | **0,5** | 0,79 | 2,36 … 3,11 | 0,016… 0,165 mln $m^3$/day | **2** | **2023** |
| **28** | **Evo-Yahinskoe gas field**<br>YNAO Region, Russia | RCU-032 | NOVATEK-Yurkharov-neftegaz LLC | Field gas preparation | Compressor: JGT/4 (Ariel)<br>Electric motor: ВАО-630-1000-6Д У2 (Elektrotyazhmash-Privod LLC) | **1** | 2,8 | 7,5 | 36000 normal $m^3$/h | **1** | **2024** |

# HYDROGEN PRODUCTION UNITS

**Reciprocating CUs** steam-turbine-driven, a part of hydrogen production unit

**Drive**: SC1-6 (Nuovo Pignone, BHGE)
**Compressor**: 2HG/2 (Nuovo Pignone, BHGE)
**Capacity:** 4 MW
**Discharge pressure**: 9,3 MPa (g)
**Production rate**: 55000 normal $m^3/h$

Angarsky Petrochemical Plant JSC (2013)
(NK Rosneft)

**Number of units:**
**3** reciprocating compressor units

**Works on site:**

Installation and assembly of steam turbine units, compressor, condensing unit, lubrication and cooling units, regular represervation

# KOVYKTINSKOYE FIELD

**Reciprocating CU** ready-to-operate, of modular construction

**Drive**: DNGW-315LM-04 (LOHER)
**Compressor:** JGJ/4 (Ariel Corp.)
**Capacity:** 0,25 MW
**Discharge pressure:** 9,8 MPa (g)
**Production rate:** 1000 normal $m^3/h$

Gazprom dobycha Irkutsk LLC (2012) (Gazprom)

**Number of units:**
**1** reciprocating compressor unit


**Works on site:**

Installation of CU unit and air-cooling unit of gas with piping, commissioning and putting into operation, routine maintenance

# YURUBCHENO-TOKHOMSKOYE FIELD

**Reciprocating CUs** in the individual shelters for oil-associated gas compression and further injection into formation

**Drive:** G3616 LE (Caterpillar)
**Compressor:** KBU/6 (Ariel Corp.)
**Capacity:** 3,7 MW
**Discharge pressure:** 28,0 MPa (g)
**Production rate:** 23000 normal $m^3/h$

Vostsibneftegaz JSC (2016)
(NK Rosneft)

**Number of units:**
**12** reciprocating compressor units

**Works on site:**

Erection supervision of the helter, CU units, air-cooling unit of gas and engines, exhaust system, low-voltage package module and ACS. Regular reconservation

# CHINAREVSKOYE FIELD (KAZAKHSTAN)

**Reciprocating CUs** of modular construction, ready-to-operate. Reinforcement block and air-cooling units of gas with piping are installed outside

**Drive:** 1SG64544JJ80-Z (Siemens)
**Compressor:** JGJ/6 (Ariel Corp.)
**Capacity:** 0,96 MW
**Discharge pressure:** 4,2 MPa (g)
**Production rate:** 12000 normal $m^3/h$

Zhaikmunai LLC (2018)

**Number of units:**
**3** reciprocating compressor units

**Works on site:**

Erection supervision of CU units, air-cooling units of gas with piping, commissioning and putting into operation

# PYREINOYE BOOSTER COMPRESSOR STATION

**Ready-to-operate in-frame reciprocating compressor unit** located in the hangar enclosure

**Drive:** G3612 (Caterpillar)
**Compressor:** KBZ/4 (Ariel Corp.)
**Capacity:** 2,64 MW
**Discharge pressure:** 11,20 MPa (g)
**Production rate:** 260 420 normal $m^3$/hr

Sibneftegaz LLC (2018)
(NK Rosneft)

**Number of units:**
**1** reciprocating compressor unit

**Works on site:**

Erection supervision of the compressor units, gas air cooler with piping, adjustment and start-up

# CAMEROON REPUBLIC

**Ready-to-operate on-frame reciprocating compressor units**

**Drive:** CT 500 Y6 (Nidec)
**Compressor:** CFH64 (COOPER)
**Capacity:** 1,4 MW
**Discharge pressure:** 8,5 MPa (g)
**Production rate:** 9 417 normal m3/hr

The first compressor unit for INGC manufactured to meet all the requirements of the Maritime Register for the operation of equipment on the sea shelf

Perenco Rep S.A.R.L. (2021)
(France)

**Number of units:**
**2** reciprocating compressor units

# EVO-YAHINSKOYE FIELD

**Reciprocating CUs** of modular construction, ready-to-operate

**Drive:** ВАО-560-905-4ДУ2 (Siemens)
**Compressor:** JGJ/6 (Ariel Corp.)
**Capacity:** 1 MW
**Discharge pressure:** 2,8 MPa (g)
**Production rate:** 36000 normal $m^3/h$

Novatek-Yurkharovneftegaz LLC (2022)

**Number of units:**
**2** reciprocating compressor units

**Works on site:**

Erection supervision of CU units, commissioning and putting into operation

# YUZHNAY TANDYRCHA (KAZAKHSTAN)

**Reciprocating CUs** is fully factory-ready on the frame, placed in a hangar shelter

**Drive:** Superior 16SGTD (Cameron)
**Compressor:** WH74 (COOPER)
**Capacity:** 1,92 MW
**Discharge pressure:** 1,92-2,38MPa (g)
**Production rate:** 0,28-1,42 mln m3/h

Uzbekneftegaz JSC (2022)

**Number of units:**
**3** reciprocating compressor units

**Works on site:**

Erection supervision of CU units, commissioning and putting into operation

# CHINAREVSKOYE FIELD (KAZAKHSTAN)

**Reciprocating CU** of modular construction, ready-to-operate.

**Drive:** 1NB1506-4AT90-4AA0-Z (Siemens)
**Compressor:** JGJ/6 (Ariel Corp.)
**Capacity:** 1 MW
**Discharge pressure:** 9,0-12,0 MPa (g)
**Production rate:** 400000-750000 normal $m^3/h$

Zhaikmunai LLC (2022)

**Number of units:**
**1** reciprocating compressor unit

**Works on site:**

Manufacturing, delivery to the facility

# SCREW COMPRESSOR PROJECTS

| № | Site | Name | Customer | Application | Compressor system | Power, MW | P suct, MPa | P d, MPa | Flow | № of CS | Year of supply |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | **Neftegorsk gas treatment plant** Samara region, Russia (Rosneft) | | Neftegorsky GPZ (NK Rosneft JSC) | Gas treatment | Compressor: HAFI<br>Electric motor: Siemens | **1,8 – 2** | 0,08 – 2 | 0,6 | 21000 normal $m^3/h$ | **2** | **2014** |
| 2 | **Neftegorsk gas treatment plant**, Samara region, Russia (Rosneft) | | Neftegorsky GPZ (NK Rosneft JSC) | Gas treatment | Compressor: Howden WRVi-510<br>Electric motor: Siemens | **0,85 – 2** | 0,31 -2 | 0,6 | 25500 normal $m^3/h$ | **2** | **2014** |
| 3 | **Urubcheno-Tohomsk field**, Krasnoyarsk region, Russia (Rosneft) | **SCU001** | Vostsib-neftegaz, JSC (PJSC Rosneft) | Fuel gas treatment | Compressor: HOWDEN WRVi365/193<br>Electric motor: Siemens LOHER DNSL-500LM-02A | **1,15** | 0,1 | 1,1 | 5993 normal $m^3/h$ | **4** | **2018** |
| 4 | **Povhovskoe gas field** Tyumen' region, Russia (Lukoil) | **SCU002** | Lukoyl – Zapadnaya Sibir, LLC | Field gas utilization | Compressor: GEA GRASSO VP-V36S-28<br>Electric motor: ELDIN 1BAO-450SA-2У2.5 160 kW/3000 rpm | **0,132** | 0,02 | 0,32 | 1500 normal $m^3/h$ | **1** | **2019** |
| 5 | **KINKASI oil field** (Congo Republic) | **SCU003** | Perenco Rep S.A.R.L (France) | Fuel gas booster | Compressor: HOWDEN WRVi 255-110 38<br>Electric motor: ABB M3GP | **0,45** | 0,33 | 1,79 | 3 350 normal $m^3/h$ | **1** | **2019** |
| 6 | **Amur GCC** Amur region, Russia | **SCU004** | Linde GmbH | Ethane Boil Off Compressor | Compressor: Kobelco KS25LX<br>Electric motor: ABB | **0,32** | 0,1 | 1,04 | 3 398 normal $m^3/h$ | **1** | **2021** |
| 7 | **Vostochno-Kapitonovskoye field** Orenburg region, Russia | **SCU005/1** | Orenburgneft JSC | Field gas utilization | Compressor: MAYEKAWA Model: GH250S-M<br>Electric motor: Waukesha Model H24SE | **0,09** | 0,11 | 0,7 | 551,25 normal $m^3/h$ | **2** | **2022** |

| № | Site | Name | Customer | Application | Compressor system | Power, MW | P suct, MPa | P d, MPa | Flow | № of CS | Year of supply |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **7** | **Vostochno-Kapitonovskoye field**<br>Orenburg region, Russia | **SCU005/2** | Orenburgneft JSC | Field gas utilization | Compressor: HOWDEN WRVi 255-110 30<br>Gas engine: Waukesha VGF H24SE | **0,39** | 0,65 | 2,8 | 3725 normal $m^3/h$ | **3** | **2022** |

# VOSTOCHNO-KAPITONOVSKOE FIELD

**Screw CU** low and medium pressure
on the frame

## SCU-005/1

**Drive**: ASA 280M-2 (UMEB)
**Compressor:** WRV 204-110 50 (HOWDEN)
**Capacity:** 0,09 MW
**Discharge pressure:** 0,7 MPa (g)
**Production rate:** 551,25 normal $m^3$/hr

## SCU-005/2

**Drive**: VGF H24SE (Waukesha)
**Compressor:** WRVi 255-110 30 (HOWDEN)
**Capacity:** 0,39 MW
**Discharge pressure:** 2,8 MPa (g)
**Production rate:** 3725 normal $m^3$/hr

Orenburgneft JSC (2022r)

**Number of units:**
**5** screw compressor units

# POVKHOVSKOYE FIELD

**Screw CU** in block design, full ready-to-operate

**Drive:** 1BAO-450SA-2У2.5 (ELDIN)
**Compressor:** VP-V36S-28 (GEA Grasso)
**Capacity:** 0,132 MW
**Discharge pressure:** 0,32 MPa (g)
**Production rate:** 1500 normal $m^3$/hr

Lukoil-Zapadnaya Siberia LLC (2019) (Lukoil)

**Number of units:**
**1** screw compressor unit

**Works on site:**

Erection supervision of CU units, commissioning and putting into operation

# CONGO REPUBLIC

**Packaged screw CU** on the frame. Outdoor design
Air-cooling unit of gas with piping is installed outside on the frame integral with the unit.

**Drive**: M3GP (ABB)
**Compressor:** WRVi 255-110 38 (HOWDEN)
**Capacity:** 0,45 MW
**Discharge pressure:** 1,69…1,80 MPa (g)
**Production rate:** 4228 normal $m^3$/hr

Perenco Rep S.A.R.L. (2019)
(France)

**Number of units:**
**1** screw compressor unit

# AMURSKY GCC

**Packaged screw CU** on the frame. Outdoor design

**Drive**: M3KP 355SMB 2 IMB3 (ABB)
**Compressor:** KS25LX (Kobelco)
**Capacity:** 0,32 MW
**Discharge pressure:** 1,04 MPa (g)
**Production rate:** 3 398 normal m3/hr

Linde GmbH (2022)
(SIBUR Holding)

**Number of units:**
**1** screw compressor unit

# COMPONENTS, ASSEMBLIES AND METALL STRUCTURES FOR OTHER MANUFACTURERS OF CENTRIFUGAL GAS COMPRESSOR UNITS AND COMPRESSOR UNITS (CU)

| № | Name | Site | Drive | Power, MW | Number | Customer | Year of supply |
|---|---|---|---|---|---|---|---|
| 1 | **Air intake system for GCU-32 «Ladoga»** | | GTU | 32 | **2** | REPH JSC | **2015** |
| 2 | **Exhaust system EGES-12C** | **Chayandinskoye gas field**, Yakutia, Russia | GTU | 12 | **6** | Gazpromneft-Zapolyarye LLC (Gazpromneft PJSC ) | **2016** |
| 3 | **Fuel gas system EGES-12C** | **Chayandinskoye gas field**, Yakutia, Russia | GTU | 12 | **6** | Gazpromneft-Zapolyarye LLC (Gazpromneft PJSC) | **2016** |
| 4 | **Air intake system for GCU-32 «Ladoga»** | **Novoportovskoye oil and gas condensate field**, YNAO Region, Russia | GTU | 32 | **2** | Gazpromneft PJSC | **2015** |
| 5 | **Elements of Air Intake and Conditioning System** | **Novoportovskoye oil and gas condensate field**, YNAO Region, Russia | GTU | 32 | **4** | Gazpromneft PJSC | **2016** |
| 6 | **Air intake system for GE Frame 6** | **Pregolskaya TPP**, Kaliningrad region, Russia | GE 6FA Turbine | 87 | **4** | Kaliningrad Generation LLC | **2017** |
| 7 | **Base frame for marine energy unit General Electric** | **Rosneft fleet** | GE 16V250 | 4,5 | **8** | General Electric | **2018** |
| 8 | **Air Intake and Conditioning System for GTES-16** | **Lokosovsky GPP**, Tyumen' region, Russia | GTU | 16 | **3** | UEC-Aviadvigatel JSC (Lukoil-Zapadnaya Siberia LLC) | **2019** |
| 9 | **Gas Turbine Enclosure for GTES-16** | **Lokosovsky GPP**, Tyumen' region, Russia | GTES-16ПА | 16 | **3** | UEC-Aviadvigatel JSC (Lukoil-Zapadnaya Siberia LLC) | **2019** |
| 10 | **Air Intake and Conditioning System for GTES-25ПА** | **GTES Udarnaya**, Krasnodar Territory, Russia | ГТЭС-25ПА (ГТУ) | 25 | **2** | UEC-Aviadvigatel JSC (VO Technopromexport LLC) | **2020** |
| 11 | **Gas Turbine Enclosure for GTES-25ПА** | **GTES Udarnaya**, Krasnodar Territory, Russia | GTES-25ПА (GTU) | 25 | **2** | UEC-Aviadvigatel JSC (VO Technopromexport LLC) | **2020** |
| 12 | **Reducer frame for GTES-25ПА** | **GTES Udarnaya**, Krasnodar Territory, Russia | GTES-25ПА (GTU) | 25 | **2** | UEC-Aviadvigatel JSC (VO Technopromexport LLC) | **2020** |
| 13 | **Air intake system** | **GTES Udarnaya**, Krasnodar Territory, Russia | GTES-25ПА EGES012CA Power Unit | 25 | **2** | UEC-Aviadvigatel JSC | **2021** |

| № | Name | Site | Drive | Power, MW | Number | Customer | Year of supply |
|---|---|---|---|---|---|---|---|
| **14** | **Air intake system** | **GTES Udarnaya**, Krasnodar Territory, Russia | GTES-25ПА EGES012CA Power Unit | 25 | **2** | UEC-Aviadvigatel JSC | **2021** |
| **15** | **Air intake system for GE Frame 9** | **Zainskaya GRES**, Tatarstan | GT GE 9HA.02 | 571 | **1** | GE Russia LLC | **2022** |
| **16** | **Air intake system** | **Yakutskaya GRES-2**, Yakutia, Russia | GT GE 6FA | 82 | **2** | RusHydro PJSC | **2022** |
| **17** | **Base Frame for GE 6FA Gas Turbine** | **Yakutskaya GRES-2**, Yakutia, Russia | GTU | | **2** | Russian Gas Turbines LLC | **2022** |
| **18** | **Container Block A-12.637.65** | **KS-7 Sivakinskaya**, Amur region, Russia | GCU/GTES A-12 | | **3** | SPF System-Service JSC | **2022** |
| **19** | **Gas separators** | Booster compressor station - 3 of the **Novo-Urengoy license area** | | | **3** | SPF Iskra PJSC / ROSPAN INTERNATIONAL JSC | **2023** |
| **20** | **Air intake system** | **Salmanovskoe (Utrenee) oil and gas condensate field**, YNAO Region, Russia | EGES-12CA | 12 | **4** | ARCTIC LNG 2 LLC (NOVATEK PAO) | **2022** |
| **21** | **Gas turbine enclosure ventilation system** | **Salmanovskoe (Utrenee) oil and gas condensate field**, YNAO Region, Russia | EGES-12CA | 12 | **4** | ARCTIC LNG 2 LLC (NOVATEK PAO) | **2022** |
| **22** | **Air intake system** | **Salmanovskoe (Utrenee) oil and gas condensate field**, YNAO Region, Russia | EGES-12CA | 12 | **4** | ARCTIC LNG 2 LLC (NOVATEK PAO) | **2022** |
| **23** | **Gas Turbine Enclosure for GTES-25ПА** | **Yuzhno-Sakhalinskaya TPS-1,** Sakhalin Island, Russia | GTES-25ПА (GTU) | 25 | **2** | UEC-Aviadvigatel JSC | **2023** |
| **24** | **Air intake system for GTES-25ПА** | **Yuzhno-Sakhalinskaya TPS-1**, Sakhalin Island, Russia | GTES-25ПА (GTU) | 25 | **2** | UEC-Aviadvigatel JSC | **2023** |
| **25** | **Gas turbine enclosure ventilation system for GTES-25ПА** | **Yuzhno-Sakhalinskaya TPS-1**, Sakhalin Island, Russia | GTES-25ПА (GTU) | 25 | **2** | UEC-Aviadvigatel JSC | **2023** |
| **26** | **Drive unit** | **Yuzhno-Tambeyskoye oil and gas condensate field**, YNAO Region, Russia | GCU-2503 | 25 | **6** | Kazancompressor-mash JSC | **2023** |
| **27** | **Drive blowing system** | | GCU-2504 | 25 | **6** | Kazancompressor-mash JSC | **2024** |

# COMPONENTS, ASSEMBLIES AND STRUCTURES FOR COMPRESSOR UNITS

Gas Turbine Enclosure
Lokosovsky gas field
UEC-Aviadvigatel

Air intake system
Udarnaya electric station
UEC-Aviadvigatel

Gas Turbine Enclosure ventilation system
Salmanovskoe (Utrenee)
oil and gas condensate field
NOVATEK


Gas Turbine Enclosure ventilation
system Yuzhno-Sakhalinskaya TPS-1
UEC-Aviadvigatel

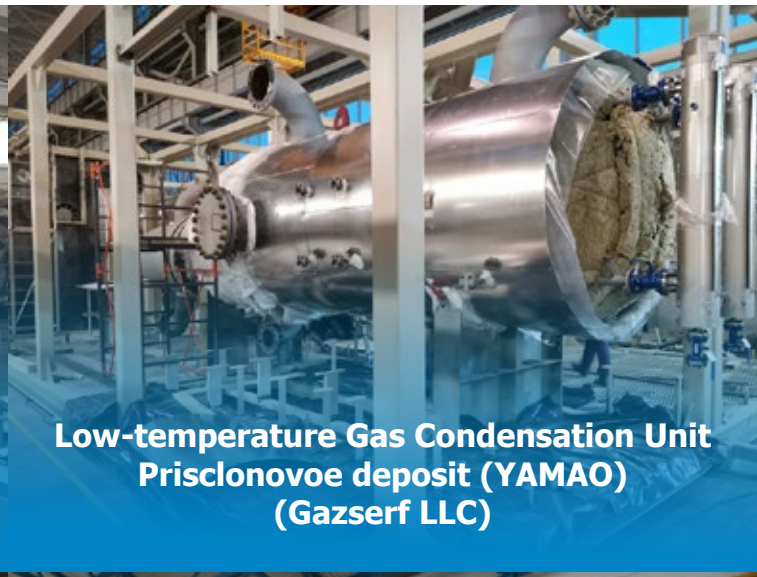
Gas separators
Novo-Urengoy license area
ROSPAN INTERNATIONAL

Exhaust system
Chayandinskoye gas field
Gazpromneft-Zapolyarye

# COMPONENTS, ASSEMBLIES AND STRUCTURES FOR COMPRESSOR UNITS

Harmful emissions purification plant
(UOVV-12000)
Vysotsk (PKK-Vysotsk Lukoil - II LLC)

Harmful emissions purification plant
(UOVV-50000)
Vyksa ( EKOLANT LLC)



Low-temperature Gas Condensation Unit
Prisclonovoe deposit (YAMAO)
(Gazserf LLC)

Drive unit for GPU-25
Yuzhno-Tambeyskoye NGKM
(Kazancompressormash JSC)

Container block A-12.637.65 for GTES A-12
KS-7 Sivakinskaya
(Sistema Service LLC)

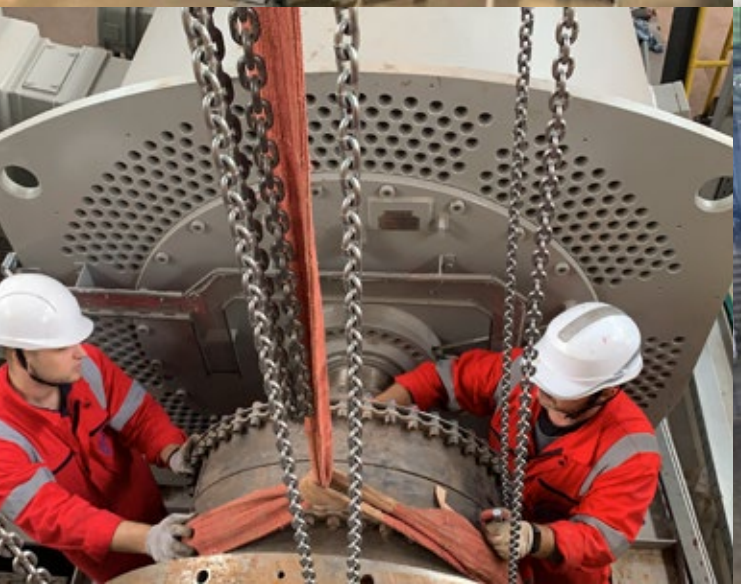
Filter House
Pregolskaya TPP
(Kaliningrad Generation LLC)

# TECHNICAL SUPPORT AND SERVICE PROJECTS. MAINTENANCE, OVERHAUL

| № | Works | Customer | Site | Number | Year |
|---|---|---|---|---|---|
| 1 | **Reengineering of spare parts of the circulating gas compressor PLC (Nuovo Pignone), steam turbine HNK 40/45/40-3 (Nuovo Pignone) for production of methanol** | Metafrax Chemicals PJSC | Gubakha city, Perm region, Russia | - | **2022** |
| 2 | **Revision and installation of the pump of the lubricator system of the Cameron Superior WG74 compressor** | NKO-Service LLC | Urubcheno-Tohomsk gas field, Krasnoyarsk region, Russia | 1 | **2022** |
| 3 | **Repair of buffer tank 957** | Siberian Oil and Gas Company JSC | Pyreynoe gas field, Tyumen' region, Russia | 1 | **2023** |
| 4 | **Routine maintenance of Solar Taurus-60** | RN-BGPP LLC | CS Zaikinskaya, Orenburg region, Buzuluk city, Russia | 2 | **2023** |
| 5 | **Routine maintenance of Solar Titan-130** | ABS Energoneft JSC/ Messoyakhaneftegaz JSC | Vostochno-Messoyakhskoye gas field, Tazovsky district, YNAO Region, Russia | 6 | **2023** |
| 6 | **Overhaul and supply of gas generator and power turbine for Siemens SGT-200-1S** | Zarubezhneft-dobycha Kharyaga LLC | Kharyaginskoye gas field, YNAO Region, Russia | 1 | **2023** |
| 7 | **Maintenance of Saturn 20 compressor units, as well as maintenance after 8000 hours of operation** | NNK-Orenburg LLC | Rostashinskaya GCS | 2 | **2024** |
| 8 | **Maintenance of Solar Taurus 60 series gas turbine units: 4 pcs. after 4000 hours of operation and 3 pcs. after 8000 hours ofoperation** | RN-Uvatneftegaz LLC | GTES at the Malyk field | 7 | **2024** |
| 9 | **A full range of maintenance work (maintenance) of the centrifugal compressor of the catalytic reforming installation** | NOC-Khabarovsk Refinery JSC | Khabarovsk | 1 | **2025** |

# MAINTENANCE, OVERHAUL



# FOR NOTES

Detailed information on our website
**www.ingc.ru/en**

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