Francis turbines – horizontal
BULAM

SCOPE OF SUPPLY:
- Turbines
- Generators
- Inlet valves
- Digital and hydr. governors
- Electrical equipment
- Erection and commissioning

MAIN DATA:
- Type: 2 x FSHC6,7/38
- Output: 2 x 4980 kW
- Head: 172,4 m
- Speed: 750 min-1
- Year: 2010
- Country: Turkey
**SCOPE OF SUPPLY:**
Turbine

**MAIN DATA:**
- **Type:** FSHC-9.6V37
- **Output:** 7180 kW
- **Head:** 180,4 m
- **Speed:** 900 min-1
- **Year:** 2010
- **Country:** Canada

![Image of turbine](image-url)
SHANYIN

SCOPE OF SUPPLY:
Turbines

MAIN DATA:
Type: 4 x FSH - 9,0V80
Output: 4 x 826 kW
Head: 21,8 m
Speed: 425 min-1
Year: 2010
Country: Hungary
NASSWALD

**SCOPE OF SUPPLY:**
- Turbine
- Hydraulic governor
- Erection and commissioning

**MAIN DATA:**
- **Type:** FSHC-5.20V49
- **Output:** 392 kW
- **Head:** 45.3 m
- **Speed:** 750 min⁻¹
- **Year:** 2009
- **Country:** Austria
SEVINDIK

SCOPE OF SUPPLY:
Turbines
Generators
Inlet valves
Hydraulic governor
Digital turbine controller
Erection and commissioning

MAIN DATA:
Type: 2 x FSHc-7,1/53
Output: 2 x 2857 kW
Head: 104,47 m
Speed: 750 min-1
Year: 2007
Country: Turkey
POROI

SCOPE OF SUPPLY:

- Turbines
- Generators
- Inlet valves
- Hydraulic governor
- Digital turbine controller
- Erection and commissioning

MAIN DATA:

- Type: FSHc-5,15/66
- Output: 1093 kW
- Head: 67,1 m
- Speed: 1000 min-1
- Year: 2007
- Country: Greece
## DONAWITZ

**SCOPE OF SUPPLY:**
- Turbines
- Generators
- Inlet valves
- Hydraulic governor
- Digital turbine controller
- Erection and commissioning

**MAIN DATA:**
- Type: 2 x FSHC-8,5/74
- Output: 2 x 1474 kW
- Head: 35.4 m
- Speed: 500 min⁻¹
- Year: 2007
- Country: Austria
SUSHERI

SCOPE OF SUPPLY:
- Turbines
- Generators
- Inlet valves
- Hydraulic governor
- Digital turbine controller
- Erection and commissioning

MAIN DATA:
- Type: 6 x FSHc-7,50/53
- Output: 6 x 2000 kW
- Head: approx. 75 m
- Speed: 600 min-1
- Year: 2007
- Country: Turkey
KATZLING

SCOPE OF SUPPLY:

- Turbines
- Generators
- Inlet valves
- Hydraulic governors
- Erection and commissioning

MAIN DATA:

- Type: 2 x FSHc-7,85/75
- Output: 2 x 1100 kW
- Head: 32 m
- Speed: 500 min-1
- Year: 2006
- Country: Austria
QORLORTORSUAQ

SCOPE OF SUPPLY:

- Turbines
- Generators
- Inlet valves
- Hydraulic governors
- Digital turbine controller
- Erection and commissioning

MAIN DATA:

- Type: 2 x FSHc-7.75/58
- Output: 2 x 3803 kW
- Head: 96.6 m
- Speed: 750 min⁻¹
- Year: 2006
- Country: Greenland
**PUNTILLA**

**SCOPE OF SUPPLY:**
- Turbine
- Generator
- Inlet valve
- Hydraulic governor
- Electrical equipment
- Erection and commissioning

**MAIN DATA:**
- Type: FSHc-12,5/55
- Output: 8274 kW
- Head: 90,8 m
- Speed: 428 min\(^{-1}\)
- Year: 2006
- Country: Chile
MAUER

SCOPE OF SUPPLY:
- Turbine
- Hydraulic governor
- Erection and commissioning

MAIN DATA:
- Type: FSHc-5,3/75
- Output: 550 kW
- Head: 35 m
- Speed: 750 min-1
- Year: 2005
- Country: Austria
ROTACHE

SCOPE OF SUPPLY:
- Turbine
- Generator
- Inlet valve
- Hydraulic governor
- Erection and commissioning

MAIN DATA:
- Type: FSHc-5,3/75
- Output: 404 kW
- Head: 33 m
- Speed: 750 min-1
- Year: 2005
- Country: Austria
<table>
<thead>
<tr>
<th>SCOPE OF SUPPLY:</th>
<th>MAIN DATA:</th>
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<tbody>
<tr>
<td>Turbines</td>
<td>Type: 1 x FSHc-4,62/38</td>
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<tr>
<td>Generators</td>
<td>1 x PV4c-640/200</td>
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<tr>
<td>Inlet valves</td>
<td>Output: 1 x 1770 kW / 1 x 744 kW</td>
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<tr>
<td>Hydraulic governors</td>
<td>Head: 140 m / 141 m</td>
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<tr>
<td>Erection and commissioning</td>
<td>Speed: 1000 min-1 / 750 min-1</td>
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<tr>
<td></td>
<td>Year: 2005</td>
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<tr>
<td></td>
<td>Country: Greece</td>
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</tbody>
</table>
HOLZHÜTTENBODEN

SCOPE OF SUPPLY:
- Turbine
- Inlet valve
- Generator
- Hydraulic governor
- Intake structure
- Erection and commissioning

MAIN DATA:
- Type: FSHc-3,6/48
- Output: 294 kW
- Head: 55,5 m
- Speed: 1000 min-1
- Year: 2004
- Country: Austria
PERIVOLI

SCOPE OF SUPPLY:

- Turbines
- Generators
- Inlet valves
- Hydraulic governors
- Erection and commissioning

MAIN DATA:

- Type: FSHc-7,50/63
- FSHc-5,15/58
- Output: 3037 kW / 1248 kW
- Head: 78 m / 81 m
- Speed: 750 min-1 / 1000 min-1
- Year: 2003
- Country: Greece
MAE KA NAI

SCOPE OF SUPPLY:
- Turbines
- Inlet valves
- Governor systems
- Generators
- Erection and commissioning

MAIN DATA:
- Type: 2 x FSHc-3,15/48
- Output: 2 x 452 kW
- Head: 95,4 m
- Speed: 1500 min-1
- Year: 2002
- Country: Thailand
**MOLU**

**SCOPE OF SUPPLY:**

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<tr>
<th>Item</th>
<th>Description</th>
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<tbody>
<tr>
<td>Turbines</td>
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<tr>
<td>Inlet valves</td>
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<td>Governor system</td>
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<tr>
<td>Generators</td>
<td></td>
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<tr>
<td>Electrical equipment</td>
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<tr>
<td>Erection and commissioning</td>
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**MAIN DATA:**

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<th>Item</th>
<th>Value</th>
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<tbody>
<tr>
<td>Type</td>
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<tr>
<td>Output</td>
<td>2 x 1700 kW</td>
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<tr>
<td>Head</td>
<td>42,4 m</td>
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<tr>
<td>Speed</td>
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<tr>
<td>Year</td>
<td>2001</td>
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<tr>
<td>Country</td>
<td>Turkey</td>
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</table>
**DUSS**

**SCOPE OF SUPPLY:**
- Turbine
- Inlet valve
- Digital turbine controller
- Hydraulic power pack
- Erection and commissioning

**MAIN DATA:**
- Type: FSHc-4.25
- Output: 193 kW
- Head: 23.5 m
- Speed: 750 min⁻¹
- Year: 1998
- Country: Switzerland
KANDERSTEG

SCOPE OF SUPPLY:

Turbines
Inlet valve
Digital turbine controller
Hydraulic power pack
Erection and commissioning

MAIN DATA:

Type: 2 x FSHc-2,8/120
Output: 2 x 508 kW
Head: 97,7 m
Speed: 1500 min-1
Year: 1995
Country: Switzerland
ERZBACH

SCOPE OF SUPPLY:
- Turbines
- Inlet valve
- Digital turbine controller
- Hydraulic governor
- Erection and commissioning

MAIN DATA:
- Type: FSH 6,3 / FSH 4,75
- Output: 849 kW / 507 kW
- Head: 46,2 m / 48,2 m
- Speed: 750 / 1000 min-1
- Year: 1983
- Country: Austria
Francis turbines – vertical
HOLLERSBACH

SCOPE OF SUPPLY:

- Turbine
- Generator
- Inlet valve
- Elektr. and hydr. governor
- Draft tube gate
- Erection and commissioning

MAIN DATA:

- Type: FSV10,65V49L
- Output: 5309 kW
- Head: 78,1 m
- Speed: 600 min-1
- Year: 2010
- Country: Austria
**ZOGNO**

**SCOPE OF SUPPLY:**
- Turbines
- Inlet valves
- Generators
- Hydraulic governors
- Erection and commissioning

**MAIN DATA:**
- Type: 4 x FSVc-7,6/63
- Output: 4 x 1801 kW
- Head: 55,1 m
- Speed: 600 min-1
- Year: 2005
- Country: Italy
VÄNNEBO

**SCOPE OF SUPPLY:**

- Turbines
- Inlet valves
- Bifurcation pipe
- Hydraulic governor
- Generators
- Erection and commissioning

**MAIN DATA:**

- Type: 2 x FSVc-4,5/220
- Output: 2 x 354 kW
- Head: 39,5 m
- Speed: 1000 min-1
- Year: 2002
- Country: Sweden
GÖNEN

**SCOPE OF SUPPLY:**
- Turbines
- Generators
- Inlet valves
- Governors
- Electrical equipment
- Erection and commissioning

**MAIN DATA:**
- Type: 2 x FSV-11,2/72
- Output: 2 x 5783 kW
- Head: 60,3 m
- Speed: 500 min-1
- Year: 1997
- Country: Turkey