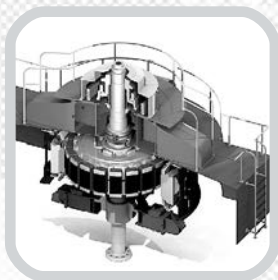


# Technical Information



## REFERENCE LIST

HYDRO GENERATORS - NEW AND MODERNIZED

HYDRO GENERATORS - MAINTENANCE AND REPAIR

HYDRO POWER PLANTS - COMPLETE EQUIPMENT

PROGRAMME OF TURBINES AND HYDRO - MECHANICAL  
EQUIPMENT FOR HYDRO POWER PLANTS



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We set your ideas in motion. We do not merely manufacture motors, but instead turn the ambitious concepts of our customers into modern, innovative and reliable products, which are unique and point the way to the future. We bring our customers closer to their goals with reliability, creativity and flexibility.

# REFERENCE LIST

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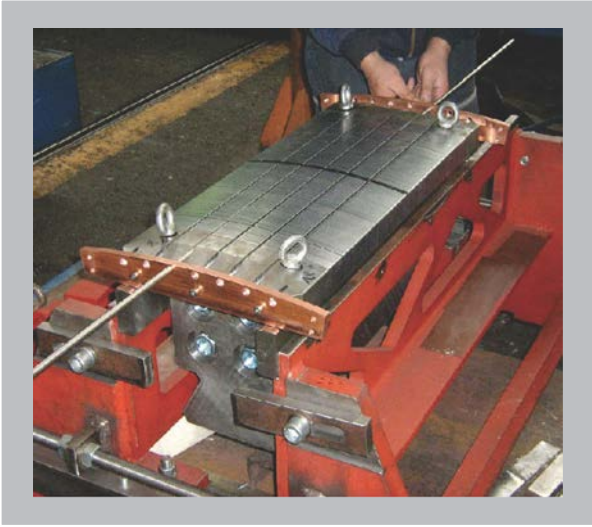
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## HYDRO GENERATORS - NEW AND MODERNIZED



# REFERENCE LIST

## HYDRO GENERATORS - NEW AND MODERNIZED

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BUYER	HYDRO POWER PLANT	SCOPE OF WORKS	YEAR
ELEKTROPRIVREDA SERBIA	HPP ĐERDAP 1 KLADOVO	Hydro generator <b>Before rehabilitation 196 MVA; 15,75 kV; 71,43 min<sup>-1</sup></b> <b>After rehabilitation 211,11 MVA</b> - Rehabilitation of the generator A1 - Pre-insulation of the windings of poles of the exciter	2015/2016
SLAVNIK DOO SERBIA	SHPP SLAVNIK, BOJNIK	Hydro generator <b>75 kW; 400 V; 1523 min<sup>-1</sup></b> - Delivery of the complete generator with low voltage equipment	2015/2016
RUSELPROM RUSSIA	HPP DONJE, SWEDEN	Hydro generator <b>29 MVA; 11 kV; 187,5 min<sup>-1</sup></b> - Design and construction, - Technology of production	2015/2016
RUSELPROM RUSSIA	HPP LINNVASSELV, SWEDEN	Hydro generator <b>53,5 MVA; 11 kV; 250 min<sup>-1</sup></b> - Design and construction, - Technology of production	2015/2016
HIDRO-MONT B&H	SHPP GOVZA, FOČA	Hydro generators <b>4365 kVA; 6,3 kV; 750 min<sup>-1</sup></b> <b>1673 kVA; 6,3 kV; 1000 min<sup>-1</sup></b> - Delivery of 2 complete generators with middle voltage and low voltage equipment	2014/2015
RAS HYDRO INŽENJERING SERBIA	SHPP SAMAKOVO, JOŠANIČKA BANJA	Hydro generator <b>360 kVA; 400 V; 1000 min<sup>-1</sup></b> - Delivery of the complete generator with middle voltage and low voltage equipment	2014/2015
SPRING ENERGY JEDAN BISTAR SERBIA	SHPP BISTAR, BOSILEGRAD	Hydro generator <b>400 kVA; 400 V; 750 min<sup>-1</sup></b> - Delivery of the complete generator with low voltage equipment	2014/2015
FANTASTIC ENERGY SERBIA	SHPP DUBAK, TRGOVIŠTE	Hydro generators <b>515 kVA; 400 V; 1500 min<sup>-1</sup></b> <b>250 kVA; 400 V; 1500 min<sup>-1</sup></b> - Delivery of 2 complete generators with low voltage equipment	2014/2015
POWER BNM SERBIA	SHPP POREČJE, LESKOVAC	Hydro generators <b>700 kVA; 400 V; 600 min<sup>-1</sup></b> - Delivery of 2 complete generators with low voltage equipment	2013/2014
HIDRO-MONT ELEKTROPRIVREDA RS B&H	HPP BOČAC MRKONJČ GRAD	Hydro generator <b>710 kVA; 400 V; 750 min<sup>-1</sup></b> Type: GSOTE 500 Mk-8 - Delivery of the complete generator	2013/2014
HIDRO-MONT B&H	SHPP ŽEŽELJA TESLIĆ	Hydro generator <b>315 kVA; 400 V; 600 min<sup>-1</sup></b> Type: GSOTE 450 Mk-10 - Delivery of the complete generator with low voltage equipment	2013/2014
ELEKTROPRIVREDA SERBIA	HPP ĐERDAP 1 KLADOVO	Hydro generator <b>Before rehabilitation 196 MVA; 15,75 kV; 71,43 min<sup>-1</sup></b> <b>After rehabilitation 211,11 MVA</b> - Rehabilitation of the generator A5 - Pre-insulation of the windings of poles of the exciter	2013/2014



# REFERENCE LIST

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## HYDRO GENERATORS - NEW AND MODERNIZED



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## HYDRO GENERATORS - NEW AND MODERNIZED

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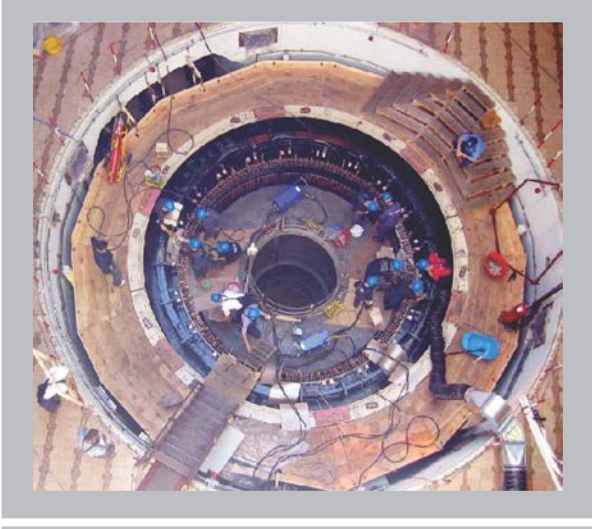
BUYER	HYDRO POWER PLANT	SCOPE OF WORKS	YEAR
RUSELPROM RUSSIA	HPP GAMELANGE, SWEDEN	Hydro generator <b>31 MVA; 11 kV; 125 min<sup>-1</sup></b> - Rehabilitation of the generator	2014
HIDRO-MONT B&H	SHPP JASENICA TESLIĆ	Hydro generator <b>590 kVA; 400 V; 1000 min<sup>-1</sup></b> Type: GSOTE 400 Md-6 - Delivery of the complete generator with low voltage equipment	2013/2014
HIDRO-MONT B&H	SHPP DUBOKA GORNJI VAKUF	Hydro generator <b>525 kVA; 400 V; 1000 min<sup>-1</sup></b> Type: GSOTE 400 Md-6 - Delivery of the complete generator with low voltage equipment	2013
ELEKTROPRIVREDA SERBIA	HPP BAJINA BAŠTA BAJINA BAŠTA	Hydro generator <b>Before rehabilitation 100 MVA; 15,65 kV; 136,4 min<sup>-1</sup></b> <b>After rehabilitation 109,6 MVA</b> - Cooperation with Andritz Hydro, - Rehabilitation of the generator H4 - Production of poles	2012/2013
ELEKTROPRIVREDA SERBIA	HPP ĐERDAP 1 KLADOVO	Hydro generator <b>Before rehabilitation 196 MVA; 15,75 kV; 71,43 min<sup>-1</sup></b> <b>After rehabilitation 211,11 MVA</b> - Rehabilitation of the generator A4 - Pre-insulation of the windings of poles of the exciter	2011/2012
ELEKTROPRIVREDA SERBIA	HPP BAJINA BAŠTA BAJINA BAŠTA	Hydro generator <b>Before rehabilitation 100 MVA; 15,65 kV; 136,4 min<sup>-1</sup></b> <b>After rehabilitation 109,6 MVA</b> - Cooperation with Andritz Hydro, - Rehabilitation of the generator H3 - Production of poles	2011/2012
BTC BELGIUM	HPP TSHOPO, CONGO	Hydro generator <b>8,78 MVA; 6,6 kV; 214,28 min<sup>-1</sup></b> - Delivery of the complete generator with all equipment	2011/2012
RUSELPROM RUSSIA	HPP GAMELANGE, SWEDEN	Hydro generator <b>31 MVA; 11 kV; 125 min<sup>-1</sup></b> - Design and construction, - Technology of production	2011/2012
ELEKTROPRIVREDA SERBIA	HPP ĐERDAP 1 KLADOVO	Hydro generator <b>Before rehabilitation 196 MVA; 15,75 kV; 71,43 min<sup>-1</sup></b> <b>After rehabilitation 211,11 MVA</b> - Rehabilitation of the generator A6 - Pre-insulation of the windings of poles of the exciter	2010/2011
ELEKTROPRIVREDA SERBIA	HPP BAJINA BAŠTA BAJINA BAŠTA	Hydrogenerator <b>Before rehabilitation 100 MVA, 15,65 kV; 136,4 min<sup>-1</sup></b> <b>After rehabilitation 109,6 MVA</b> - Cooperation with Andritz Hydro, - Rehabilitation of the generator H1 - Production of poles	2009/2010
RAŠKA SERBIA	SHPP STUDENICA RAŠKA	Hydro generator <b>80 kW</b> - Delivery of the complete generator	2010/2011



# REFERENCE LIST

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## HYDRO GENERATORS - NEW AND MODERNIZED





# REFERENCE LIST

## HYDRO GENERATORS - NEW AND MODERNIZED

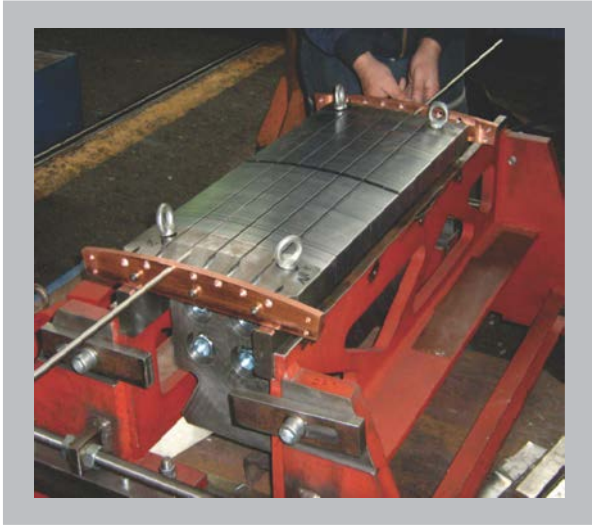
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BUYER	HYDRO POWER PLANT	SCOPE OF WORKS	YEAR
ELEKTROPRIVREDA SERBIA	HPP ELEKTROMORAVA ČAČAK, MEĐUVRŠJE	Hydro generator <b>Before rehabilitation 5,6 MVA; 6,3 kV; 300 min<sup>-1</sup></b> <b>After rehabilitation 6,3 MVA</b> Type: G20-315-61S - Delivery of the complete generator with all equipment	2010
ELEKTROPRIVREDA SERBIA	HPP ELEKTROMORAVA ČAČAK, MEĐUVRŠJE	Hydro generator <b>Before rehabilitation 3,2 MVA; 6,3 kV; 375 min<sup>-1</sup></b> <b>After rehabilitation 4 MVA</b> Tip: G16-290-43S - Delivery of the complete generator with all equipment	2010
ELEKTROPRIVREDA RS B&H	SHPP PAKLENICA DOBOJ	Hydro generator <b>315 kVA; 400 V</b> - Construction, production of the generator, turbine, excitation, unit	2010
HIDRO-MONT (ESKIMO S-2) B&H	SHPP VILEŠKA BUGOJNO	Hydro generator <b>410 kVA; 400 V; 750 min<sup>-1</sup></b> - Construction, production of the generator, turbine, excitation, unit	2010
HIDRO-MONT (ESKIMO S-2) B&H	SHPP POSTINJA TRAVNIK	Hydro generator <b>175 kVA; 400 V; Tip: GSYOTE 355 L-12</b> - Construction, production of the generator, excitation	2010
HIDRO-MONT (ESKIMO S-2) B&H	SHPP POSTINJA TRAVNIK	Hydro generator <b>312,5 kVA; 400 V; Tip: GSYOTE 450 L-14</b> - Construction, production of the generator, excitation	2010
CZECH REPUBLIC	MAVEL CZ	Hydro generator <b>1,815 MVA; 6,3 kV; Tip: 2. SOG 6630 Lk8</b> - Delivery of the complete generator with all equipment	2009
ELEKTROPRIVREDA SERBIA	HPP ELEKTROMORAVA ČAČAK, OVČAR BANJA	Hydro generator <b>4 MVA; 6,3 kV; 375 min<sup>-1</sup>; Tip: G16-290-43S</b> - Delivery of the complete generator with all equipment	2009
ELEKTROPRIVREDA SERBIA	HPP ELEKTROMORAVA ČAČAK, OVČAR BANJA	Hydro generator <b>6,3 MVA; 6,3 kV; 300 min<sup>-1</sup>; Tip: G20-315-61S</b> - Delivery of the complete generator with all equipment	2008
ELEKTROPRIVREDA SERBIA	HPP BAJINA BAŠTA BAJINA BAŠTA	Motor generator <b>315 MVA; N01</b> - Replacement of the stator winding and the rotor winding with testing during the production and final testing	2004
ELEKTROPRIVREDA SERBIA	HPP BAJINA BAŠTA BAJINA BAŠTA	Motor generator <b>315 MVA; N02</b> - Replacement of the stator winding and the rotor winding with testing during the production and final testing	2003

# REFERENCE LIST

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## HYDRO GENERATORS - MAINTENANCE AND REPAIR



# REFERENCE LIST

## HYDRO GENERATORS - MAINTENANCE AND REPAIR

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BUYER	HYDRO POWER PLANT	SCOPE OF WORKS	YEAR
ELEKTROPRIVREDA SERBIA	HPP VRLA 2 SURDULICA	Hydro generator <b>14 MVA; 6,3 kV</b> ; S345/93-12 Refurbishment of the collector of the exciter, refurbishment of the rotor winding, repair of the stator	2009
ELEKTROPRIVREDA SERBIA	HPP BISTRICA NOVA VAROŠ	Hydro generator <b>54 MVA; 10,5 kV</b> ; S3906-10 Repair of the generator and renewal of slot wedges	2009
ELEKTROPRIVREDA SERBIA	HPP VUČJE LESKOVAC	Hydro generator <b>800 kVA</b> ; HA1 Re-winding of the stator winding, re-winding of the rotor of the exciter	2009
ELEKTROPRIVREDA SERBIA	HPP VRLA 3 SURDULICA	Hydro generator <b>18,6 MVA</b> ; B-HV 692630/10 Renewal of slot wedges of the stator winding	2008
ELEKTROPRIVREDA SERBIA	HPP UVAC SJENICA	Hydro generator <b>10,5 kV</b> ; S5394-20 Production of insulated connecting bolts and clamps, repair of bus bars	2008
ELEKTROPRIVREDA SERBIA	HPP POTPEĆ PRIBOJ	Hydro generator <b>8,8 kV</b> ; B S5506-32 Renewal of slot wedges of the stator winding	2008
ELEKTROPRIVREDA SERBIA	HPP BAJINA BAŠTA BAJINA BAŠTA	Hydro generator <b>100 MVA</b> ; S9507-44 Repair of the generator	2008
ELEKTROPRIVREDA SERBIA	VLASINSKE HPP SURDULICA	Hydro generator <b>15,75 MVA; 6,3 kV</b> ; ŠKODA Repair of the generator with renewal of slot wedges and testing	2007
ELEKTROPRIVREDA SERBIA	HPP POTPEĆ PRIBOJ.	Hydro generator R. KONČAR S5506-32 Dismantling of the generator to components, insert of insulated inserts to decrease vibrations	2007
ELEKTROPRIVREDA REPUBLIC SRPSKA	HPP TREBINJE 1 TREBINJE	Hydro generator GENERAL ELECTRIC Renewal of slot wedges of the stator	2006
ELEKTROPRIVREDA SERBIA	HPP ĐERDAP 2	Hydro generator <b>27 MVA</b> ; A10 Renewal of slot wedges of the stator	2006
ELEKTROPRIVREDA SERBIA	HPP POTPEĆ	Hydro generator <b>20 MVA</b> ; C" R. KONČAR Renewal of slot wedges of the stator	2006
ELEKTROPRIVREDA SERBIA	HPP VRLA 1 SURDULICA	Hydro generator <b>16 MVA</b> ; B" S325/100-10 Renewal of slot wedges of the stator	2006



# REFERENCE LIST

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## HYDRO GENERATORS - MAINTENANCE AND REPAIR



# REFERENCE LIST

## HYDRO GENERATORS - MAINTENANCE AND REPAIR

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BUYER	HYDRO POWER PLANT	SCOPE OF WORKS	YEAR
ELEKTROPRIVREDA SERBIA	HPP PIROT PIROT	Hydro generator <b>44 MVA</b> ; G2 R. KONČAR Renewal of slot wedges of the stator winding	2006
ELEKTROPRIVREDA MONTENEGRO	HPP PERUĆICA NIKŠIĆ	Hydro generator <b>40 MVA</b> ; 1 Generator overhaul with complete testing	2005
ELEKTROPRIVREDA ETHIOPIA	MELKA WAKANA	Hydro generator <b>45 MVA</b> ; HV 710740/10 Replacement of the insulation segments in stator halves, re-winding of the rotor	2005
ELEKTROPRIVREDA SERBIA	HPP BAJINA BAŠTA BAJINA BAŠTA	Hydro generator <b>100 MW</b> ; S9507 – 44 Repair of insulation on stator core parts with fixing of all slot wedges, repair of the stator head fixing and production of insulating caps	2002
NAFTNA INDUSTRIJA SERBIA	NIS, OIL RAFINERY	Synchronous generator <b>7,5 MVA</b> ; GG1412/14A4 Re-winding of the stator and rotor, production of the slide bearings, repair of bearing support and lubrication elements	2001
ELEKTROPRIVREDA SERBIA	HPP KOKIN BROD KOKIN BROD	Hydro generator <b>12,5 MVA</b> ; S3504 – 16 Repair of stator winding with renewal of slot wedges, fixing of winding head and side connections, tightening of rotor cone wedges	2001
ELEKTROPRIVREDA MONTENEGRO	HPP PIVA PLUŽINE	Hydro generator <b>115 MVA</b> ; S6787 – 24 Dismantling of stator winding, replacement of insulation on stator core quarters, repair of winding and insertion of stator winding	2000
ELEKTROPRIVREDA SERBIA	HPP BAJINA BAŠTA BAJINA BAŠTA	Motor generator <b>315 MVA</b> ; N01 Repair of stator winding with complete renewal of slot wedges, repair of winding head fixing and repair of damaged semiconductive layer. Rotor: Repair of the interturn connection on pole no.7, dismantling and assembly all supports with insulation repair	2000
ELEKTROPRIVREDA FYR MACEDONIA	HPP GLOBOČICA STRUGA	Hydro generator <b>26 MVA</b> ; <b>10,5 kV</b> ; <b>375 min<sup>-1</sup></b> ; S 4264-16 Production of Roebel winding, dismantling, assembly, renewal of slot wedges, rotor repair	1991

# REFERENCE LIST

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## HYDRO POWER PLANTS - COMPLETE EQUIPMENT

PRODUCTION, DELIVERY AND INSTALLATION OF COMPLETE HYDRO-MECHANICAL AND ELECTRICAL EQUIPMENT WITH CONTROL, TURN-KEY SYSTEM





BUYER	HYDRO POWER PLANT	SCOPE OF WORKS	YEAR
Power BNM, Leskovac SERBIA	MHE POREČJE	Generator <b>2 pcs. – 700 kVA; 690 V; 600 min<sup>-1</sup></b> , GSYOTE 500 Md-10 - Turbine: 2 pcs. -TPV 670-5-665 - Intake building low voltage equipment installation - Middle voltage installation	2013/2014
LOTIKA d.o.o., Mokra Gora SERBIA	MHE MOKRA GORA LOTIKA	Generator <b>130 kVA; 400 V; 750 min<sup>-1</sup></b> , GSYOTE 355 Sd-8 - Turbine: TFSH 390-750 - Intake building low voltage equipment installation.	2013
W&W Energy, Kragujevac SERBIA	MHE CRKVINA	Generator <b>500 kVA; 400 V; 1000 min<sup>-1</sup></b> , GSYOTE 400 M-6 <b>800 kVA; 400 V; 750 min<sup>-1</sup></b> , GSYOTE 500 M-8 - Turbine: TFSV 400-5.3-1000 - Turbine: TFSV 520-5.5-750 - Intake building low voltage equipment installation - Middle voltage installation	2013
W&W Energy, Kragujevac SERBIA	MHE REČICA	Generator <b>1075 kVA; 400 V; 1000 min<sup>-1</sup></b> , GSYOTE 500 Md-6 <b>795 kVA; 400 V; 1000 min<sup>-1</sup></b> , GSYOTE 400 Ld-6 - Turbine: TFSV 444-5.8-1000 - Turbine: TFSV 400-6.3-1000 - Intake building low voltage equipment installation - Middle voltage installation	2013
Astra Energy, Kragujevac SERBIA	MHE KREPOLJIN	Generator <b>2 pcs. – 855 kVA; 400 V; 500 min<sup>-1</sup></b> , GSYOTE 630 Lk-12 <b>425 kVA; 400 V; 750 min<sup>-1</sup></b> , GSYOTE 400 M-8 - Turbine: 2kom - TFSV 830-3.4-500 - Turbine: TFSV 580-3.4-750 - Intake building low voltage equipment installation - Middle voltage installation	2013
HIDRO-MONT (Mega Električar) B&H	MHE ŽIRAJA	Generator <b>475 kVA; 400 V; 600 min<sup>-1</sup></b> , GSYOTE 500 S-10 - Intake building low voltage equipment	2012
HIDRO-MONT (Eskimo-S2) B&H	MHE HUM	Hidrogenerator <b>2x380 kVA; 400V; 1000 min<sup>-1</sup></b> , 2xGSYOTE 400 Mk-6 - 2 x Intake building low voltage equipment	2012
ELEKTROPRIVREDA SERBIA	HE PRVONEK 1 VRANJE	Generator <b>930 kVA; 400 V; 1000 min<sup>-1</sup></b> , GSYOTE 500 S-6 - Horizontal turbine TF 0,45 - Butterfly valve DN550, PN10 - Turbine regulator, - NN unit A1, - Cubicle of the own consumption A1, - Generator cubicle A1, - Unit supply cubicle A2 - Cubicle of SCADA system	2012

# REFERENCE LIST

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## HYDRO POWER PLANTS - COMPLETE EQUIPMENT

PRODUCTION, DELIVERY AND INSTALLATION OF COMPLETE HYDRO-MECHANICAL AND ELECTRICAL EQUIPMENT WITH CONTROL, TURN-KEY SYSTEM



BUYER	HYDRO POWER PLANT	SCOPE OF WORKS	YEAR
ELEKTROPRIVREDA SERBIA	SHPP PRVONEK 2 VRANJE	Generator <b>130 kVA; 400 V; 1500 min<sup>-1</sup></b> ; GSYOTE 280 M-4 - Horizontal turbine TF 0,23 - Butterfly valve DN300,PN15 - Turbine regulator, - NN unit A2 and cubicle of regulating valve, - Cubicle of the own consumption A2, - Generator cubicle A2, - Cubicle of regulating valve A2, - Cubicle of SCADA system	2012
ELEKTROPRIVREDA RS REPUBLIC SRPSKA	SHPP PAKLENICA DOBOJ	Generator <b>315 kVA; 400 V; 600 min<sup>-1</sup></b> ; GSYOTE 450 M- 10 - Vertical Pelton turbine with 4 nozzles, - Butterfly valve, - Turbine regulator, - Excitation system.	2011
HIDRO-MONT (ESKIMO S-2) BiH	SHPP VILEŠKA BUGOJNO	Generator <b>410 kVA; 400 V; 750 min<sup>-1</sup></b> ; GSYOTE 400 Lk8 - Horizontal Pelton turbine with 2 nozzles, - Butterfly valve, - Turbine regulator, - Electrical equipment with control.	2011
ELEKTROPRIVREDA SERBIA	SHPP ELEKTROMORAVA ČAČAK, MEĐUVRŠJE	Generator <b>6,3 MVA; 6,3 kV; 300 min<sup>-1</sup></b> ; G20-315-61S - Vertical Kaplan turbine D=2060 mm, - Butterfly valve DN2700, - Turbine regulator, - Water-water cooler.	2010
ELEKTROPRIVREDA SERBIA	SHPP ELEKTROMORAVA ČAČAK, MEĐUVRŠJE	Generator <b>4 MVA; 6,3 kV; 375 min<sup>-1</sup></b> ; G16-290-43S - Vertical Kaplan turbine D=1660 mm, - Butterfly valve DN2200, - Turbine regulator.	2010
HIDRO-MONT (ESKIMO S-2) BiH	SHPP PODSTINJE TRAVNIK	Generator <b>312,5 kVA; 400 V; 750 min<sup>-1</sup></b> ; GSYOTE 450 L-14 - horizontal Francis turbine, - Butterfly valve, - Turbine regulator, - Excitation of the generator.	2010
HIDRO-MONT (VESNA – S) BiH	SHPP PRŠLJANICA 2 BUGOJNO	Generator <b>350 kW; 400 V; 750 min<sup>-1</sup></b> ; OKT 355 Lk-8G - Vertical Pelton turbine with 4 nozzles, - Butterfly valve, - Turbine regulator, - Electrical equipment and control.	2010
HIDRO-MONT (ESKIMO S-2) BiH	SHPP PODSTINJE TRAVNIK	Generator <b>175 kVA; 400 V; 500 min<sup>-1</sup></b> ; GSYOTE 355 L-12 - Horizontal Francis turbine, - Butterfly valve, - Turbine regulator, - Generator exciter.	2010



# REFERENCE LIST

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## HYDRO POWER PLANTS - COMPLETE EQUIPMENT

PRODUCTION, DELIVERY AND INSTALLATION OF COMPLETE HYDRO-MECHANICAL AND ELECTRICAL EQUIPMENT WITH CONTROL, TURN-KEY SYSTEM

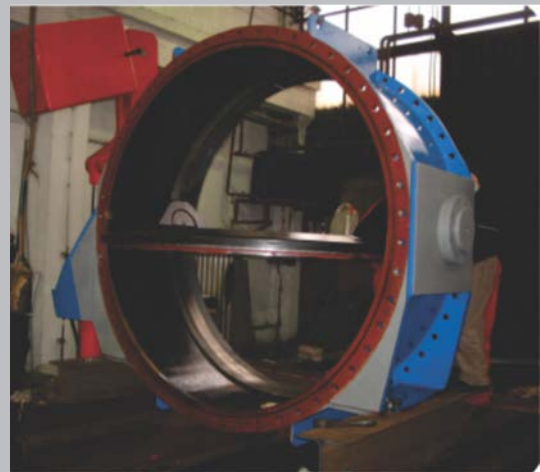


BUYER	HYDRO POWER PLANT	SCOPE OF WORKS	YEAR
ELEKTROPRIVREDA SERBIA	HPP ELEKTROMORAVA ČAČAK, OVČAR BANJA	Generator <b>4 MVA; 6,3 kV; 375 min<sup>-1</sup></b> ; G16-290-43S - Vertical Kaplan turbine D=1660mm, - Butterfly valve DN2200, - Turbine regulator.	2009
ELEKTROPRIVREDA SERBIA	HPP ELEKTROMORAVA ČAČAK, OVČAR BANJA	Generator <b>6,3 MVA; 6,3 kV; 300 min<sup>-1</sup></b> ; G20-315-61S - Vertical Kaplan turbine D=2060mm, - Butterfly valve DN2700, - Turbine regulator, - Water-water cooler.	2008
HIDRO-MONT (VESNA – S) BiH	SHPP PRŠLJANICA 1 BUGOJNO	Generator <b>100 kW, 400 V, 1000 min<sup>-1</sup></b> ; OKT 280 M6G - Vertical Francis turbine, - Butterfly valve , - Turbine regulator, - Electrical equipment and control.	2008
HIDRO-MONT (VESNA – S) BiH	SHPP PRŠLJANICA 1 BUGOJNO	Generator <b>100 kW, 400 V, 1000 min<sup>-1</sup></b> ; OKT 280 M6G - Vertical Francis turbine, - Butterfly valve , - Turbine regulator, - Electrical equipment and control.	2008
ELEKTROPRIVREDA MONTENEGRO	HPP PERUĆICA	Electrical equipment and control for the own consumption of the control system for Unit no. 5, power 40 MVA	1996/2001
ELEKTROPRIVREDA MONTENEGRO	HPP PERUĆICA	Project-technical documentation and electrical equipment: Control system of the own consumption of the power plant, installed power 2 MVA	1996/1999
ELEKTROPRIVREDA SERBIA	VRELO HPP BAJINA BAŠTA	<b>80 kVA</b> Electric equipment and project for previously erected unit of small power plant	1988
JNA FYR MACEDONIA	BITOLA, MAK	<b>20 kVA</b> Main electrical project and electrical equipment for small hydro power plant	1987
JNA BIH	SHPP on river UNA	<b>160 kVA</b> Main electrical project and electrical equipment for small hydro power plant	1987
MONASTERY PROHOR PČINJSKI SERBIA	SHPP PČINJA	<b>250 kVA</b> Main electrical project and electrical equipment for small hydro power plant	1987
JNA SERBIA	SHPP KRASAVA KRUPANJ	<b>180 kVA</b> Main electrical project and Electrical equipment for small hydro power plant	1985/1986

# REFERENCE LIST

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PROGRAMME OF TURBINES AND HYDRO-MECHANICAL EQUIPMENT  
FOR HYDRO POWER PLANTS



## PROGRAMME OF TURBINES AND HYDRO-MECHANICAL EQUIPMENT FOR HYDRO POWER PLANTS

PRODUCTION OF SPIRAL CASINGS, INLET TUBES, WICKED GATES MECHANISMS, DIFUSORS, GATE VALVES AND OTHER EQUIPMENT FOR SMALL HYDRO POWER PLANTS

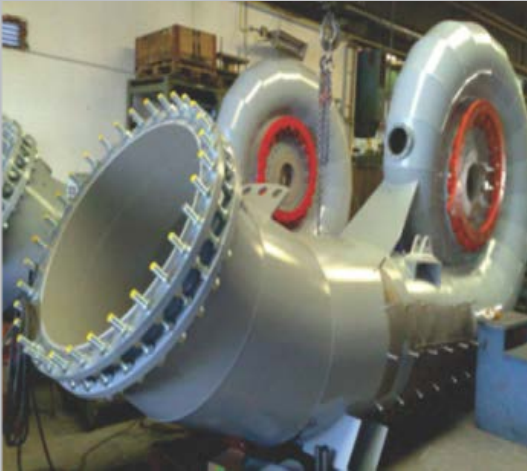
BUYER	HYDRO POWER PLANT	SCOPE OF WORKS	YEAR
KOSSLER, Austria	Tulila	Generator base frame Regulating ring Turbine shaft	2014
KOSSLER, Austria	Banesti -Floresti	Spiral casings	2014
KOSSLER, Austria	Bruksfors	Discharge ring Intake pipe Draft tube cone Stay vane ring Stay ring	2014
KOSSLER, Austria	Gsteig	Spiral casing	2014
KOSSLER, Austria	Psytalia	Stay vane ring Regulating ring Discharge ring	2014
ANDRITZ HYDRO, Germany	Tudaya (big and small)	Spiral casings Guide vanes Stay vane rings Discharge rings	2013
KOSSLER, Austria	Walchau	Spiral casing	2013
KOSSLER, Austria	Dolgarog	Spiral casing	2013
KOSSLER, Austria	Belaje 2	Spiral casing	2013
KOSSLER, Austria	Belaje 1	Spiral casing	2013
KOSSLER, Austria	Finkmuhle	Spiral casing	2013
KOSSLER, Austria	Mitweida 1 and 2	Stay vane ring	2013
KOSSLER, Austria	Grafenberg	Discharge ring	2013
KOSSLER, Austria	Ovre Forstrand	Spiral casing	2013
KOSSLER, Austria	Decan 1 and 2	Spiral casing	2013
KOSSLER, Austria	Belaje 2	Spiral casing	2013
KOSSLER, Austria	Gartenau	Intake pipe	2012
KOSSLER, Austria	Hakenkrume	Intake pipe	2012
KOSSLER, Austria	Don Walterio	Spiral casing	2012
KOSSLER, Austria	Rapuni 1	Spiral casing	2012
KOSSLER, Austria	Hirikoski	Bearing casing Regulating ring Inner gate barrel Bulb cone Belt pulley	2012
KOSSLER, Austria	Arkun	Spiral casing	2012
KOSSLER, Austria	Capra 4.1 and 4.2 Capra 5.1 and 5.2	Spiral casing	2012
KOSSLER, Austria	Zall Torre 2	Spiral casing	2012
KOSSLER, Austria	Ilulissat	Draft tube	2011
KOSSLER, Austria	Lapaj	Dismantling pipe	2011
KOSSLER, Austria	Cinar Francis 2	Spiral casing	2011



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PRODUCTION OF SPIRAL CASINGS, INLET TUBES, WICKED GATES MECHANISMS, DIFUSORS, GATE VALVES AND OTHER EQUIPMENT FOR SMALL HYDRO POWER PLANTS

BUYER	HYDRO POWER PLANT	SCOPE OF WORKS	YEAR
KOSSLER, Austria	Obermuhle	Discharge ring split Draft tube cone Outer gate barrel Inner gate barrel	2011
KOSSLER, Austria	Proviantbach	Stay vane ring Discharge ring Regulating ring	2011
KOSSLER, Austria	Ilulissat	Spiral casings	2011
ANDRITZ HYDRO, USA	Webbers Falls	Inner gate barrel extension	2011
GLOBAL, Austria	Holldal	Spiral casing Base frame	2011
WASSERKRAFT, Austria		Leitradring	2011
KOSSLER, Austria	Wysswasser	Spiral casings	2011
ANDRITZ HYDRO, Germany	Ermida 11	Sealing housing groove ring Sealing housing intermediate ring Fixation ring Sealing housing	2011
ANDRITZ HYDRO, Germany	Wetingen	Fixing ring Gasket ring Gasket housing Bearing ring	2011
KOSSLER, Austria	Gailitz	Stay ring Spiral casing	2010
GUGLER, Austria	Darca	Guide vane adjustment	2010
KOSSLER, Austria	Schuett	Stay ring	2010
KOSSLER, Austria	Vorsterbach	Draft tube cone	2010
ANDRITZ HYDRO, Germany	Black Rock	Spiral casing Guide vane Guide vane lever Stay vane ring Discharge ring	2010
KOSSLER, Austria	Sisimiut	Draft tube cone	2010
ANDRITZ HYDRO, Germany	Mjolka Sand chur plessuere	Spiral casing Guide vane Guide vane lever Stay ring Stay vane ring Discharge ring	2009
KOSSLER, Austria	Shanyin	Spiral casing Stay vane ring Regulating ring	2009
KOSSLER, Austria	Aksu Bulam	Spiral casing	2009
KOSSLER, Austria	Garden 1 and 2	Stay vane ring	2009

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### IN COOPERATION WITH KOSSLER

YEAR	PROJECT TITLE	COUNTRY	PCS.	H (m)	n (o/min)	P (kW)
2008	Altopetra	Greenland	1	577.6	1000	3609
2008	Kabaca	Turkey	2	121.4	750	4426
2008	Sevindik	Turkey	2	104.4	750	2857
2008	Donawitz	Austria	2	35.4	500	1474
2008	Kulp I	Turkey	2	75.7	500	12058
2008	Kulp IV	Turkey	2	71.1	600	6483
2008	Pramoritsa	Greenland	1	40.0	750	886
2008	Peiros	Greenland	1	77.9	1000	942
2007	Erkenek	Turkey	2	55.9	1500	493
2007	Poroi	Greenland	1	67.1	1000	1093
2007	Kalkisla II	Turkey	1	86.6	750	1884
2007	Kalkisla I	Turkey	1	86.6	600	5944
2007	Rio Segundo	Costa Rica	1	56	720	1064
2007	Tirino Medio	Italy	2	60.3	750	1473

### IN COOPERATION WITH GLOBAL HYDRO ENERGY GmbH

YEAR	PROJECT TITLE	COUNTRY	PCS.	H (m)	n (o/min)	P (kW)
2007	Somerset	Sri Lanka	1	29	0.5	1140
2006	Gurugoda Oya	Sri Lanka	2	66	4.00	2339
2006	Gomala Oya	Sri Lanka	1	121.4	750	4426

### IN COOPERATION WITH ANDINO COMPANY

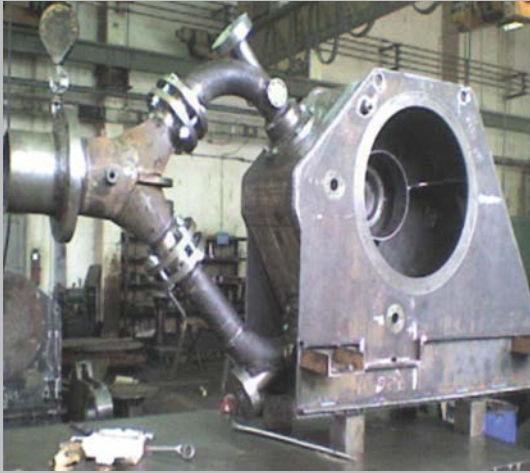
YEAR	PROJECT TITLE	COUNTRY	PCS.	H (m)	n (o/min)	P (kW)
2009	Međuvršje	Serbia	1	21	19.5	3557
2008	Ovčar Banja	Serbia	1	21	30	5060
2008	Ovčar Banja	Serbia	1	21	19.5	3295
2008	Međuvršje	Serbia	1	21	30	5480
2007	Rotemberg	Germany	3	2.25	20	400



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PRODUCTION OF SPIRAL CASINGS, INLET TUBES, WICKED GATES MECHANISMS, DIFUSORS, GATE VALVES AND OTHER EQUIPMENT FOR SMALL HYDRO POWER PLANTS

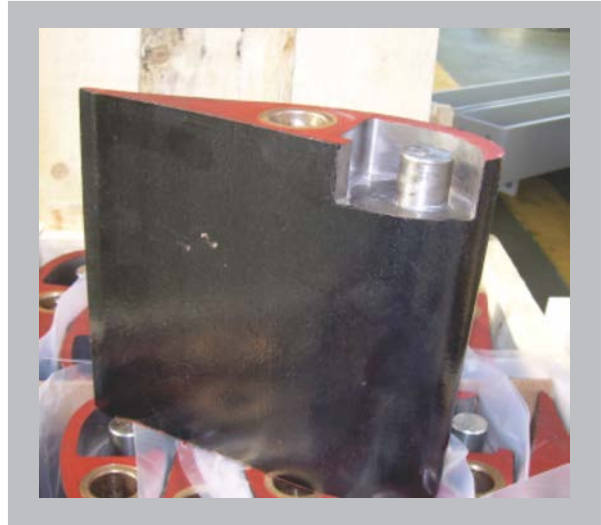
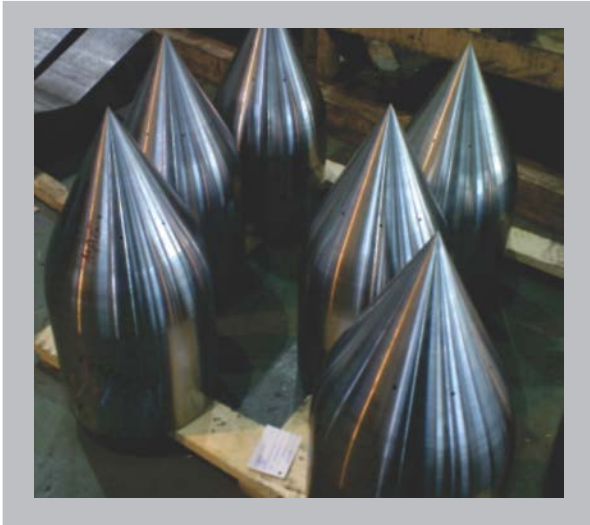
### Spiral Casing

Year	Cooperation	Project name	Land	Pcs.	H	n	Runer	P
					[m]	[o/min]	[mm]	[kW]
2014	KÖSSLER	BANESTI-FLORESTI	ROMANIA	3	34.4	600	740	853
2014	KÖSSLER	BANESTI-FLORESTI	ROMANIA	6	34.4	500	910	1698
2013	ANDINO	MEDJUVRŠJE	SRBIJA	1	19.85	500	860	660
2013	ANDRITZ	TUDAYA -2		1				
2013	ANDRITZ	TUDAYA -1		1				
2013	KÖSSLER	DECAN-2	KOSOVO	1	176	1000	860	4766
2013	KÖSSLER	DECAN-1	KOSOVO	1	172	750	1140	9527
2013	KÖSSLER	DOLGOROG	GR.BRITAIN	1	254.8	750	1340	11250
2012	KÖSSLER	WALCHAU	AUSTRIA	1	39	750	540	295
2011	ANDINO	PRVONEK	SRBIJA	1	70	1000	550	860
2011	KÖSSLER	ZALL TORRE-2	ALBANIA	1	75.2	1000	580	1014
2011	KÖSSLER	ZALL TORRE-1	ALBANIA	1	75.2	750	790	2022
2011	KÖSSLER	ARKUN	TURKEY	2	127	750	930	6120
2011	KÖSSLER	CAPRA 5-2	ROMANIA	1	67.9	1000	540	549
2011	KÖSSLER	CAPRA 5-1	ROMANIA	1	66.3	1000	560	1081
2011	KÖSSLER	CAPRA 4-2	ROMANIA	1	109.7	1500	470	714
2011	KÖSSLER	CAPRA 4-1	ROMANIA	1	107.7	1000	690	1410
2011	ANDRITZ-HYDRO	BLACK ROCK		1				
2010	KÖSSLER	WYSSWASSER	SWIZERLAND	1	37	500	940	1644
2010	KÖSSLER	IIULISSAT	GRENLAND	1	200.3	1000	920	8300
2010	KÖSSLER	WANGHOF	AUSTRIA	1	32	750	510	271
2010	KÖSSLER	CINAR II	TURKEY	1	65.7	600	970	3394
2010	KÖSSLER	CINAR I	TURKEY	1	65.7	1000	610	1326
2010	ANDRITZ-HYDRO	MJOLKA		1				
2010	ANDRITZ-HYDRO	SAND PLESSUR		2				
2010	KÖSSLER	EGEMEN 2	TURKEY	2	158.5	1000	870	5400
2010	KÖSSLER	EGEMEN 2	TURKEY	2	157	1000	870	4792
2010	KÖSSLER	SHANYIN	CHINA	4	21.avg	425	900	826
2009	KÖSSLER	OEREN	TURKEY	4	154.4	1000	870	6974
2009	KÖSSLER	HOLESBACH	AUSTRIA	1	78.1	600	1065	5309
2009	KÖSSLER	NASWALD	AUSTRIA	1	45.3	750	520	392
2009	KÖSSLER	BULAM	TURKEY	2	172.4	750	670	4980
2008	KÖSSLER	ALTOPETRA	GREECE	1	157.6	1000	590	3609
2008	KÖSSLER	KABACA	TURKEY	2	121.4	750	750	4426
2008	KÖSSLER	SEVINDIK	TURKEY	2	104.4	750	710	2857
2008	KÖSSLER	DONAWITZ	AUSTRIJA	2	35.4	500	850	1474
2008	KÖSSLER	KULP- I	TURKEY	2	75.7	500	1360	12058
2008	KÖSSLER	KULP- IV	TURKEY	2	71.1	600	1060	6483
2008	KÖSSLER	PRAMORITSA	GREECE	1	40	750	615	886
2008	KÖSSLER	PEIROS	GREECE	1	77.9	1000	475	942
2007	KÖSSLER	ERKENEK	TURKEY	2	55.9	1500	710	493
2007	KÖSSLER	POROI	GREECE	1	67.1	1000	515	1093
2007	KÖSSLER	KALKISLA-I	TURKEY	1	86.6	600	975	5944
2007	KÖSSLER	KALKISLA-II	TURKEY	1	86.6	750	630	1884
2007	KÖSSLER	RIO SEGONDO	COSTA RICA	1	56	720	630	1064
2007	KÖSSLER	TIRINO MEDIO	ITALY	2	60.3	750	650	1473
2007	GLOBAL HYDRO ENERGY	SOMERSET	SRY LANKA	1	29	500	605	1140
2006	GLOBAL HYDRO ENERGY	GOROGAUDA OYA	SRY LANKA	2	66	750	750	2339
2006	GLOBAL HYDRO ENERGY	GOMALA OYA	SRY LANKA	1	51	750	750	1035

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### PELTON CASING

Year	Project name	Land	Pcs.	H	n	P
				(m)	(o/min)	(kW)
2009	Seewigtalbach	AUSTRIA	1	437	1500	770
2009	Aksu	TURKEY	1	207	500	5207
2007	Pesocani	Macedonia	4	306	600	954

### GUIDE VANES FOR FRANCIS AND KAPLAN TURBINE

Year	Project name	Customer	Pcs.	Weight
				(kg)
2006	SITTERTAL	TURBAL AG	18	38
2006	VAFOS	ESCHERWYSSE	18	500
2006	ALZWER	ESCHERWYSSE	18	86
2008	FÜSSENERSTRASSE	ESCHERWYSSE	18	86
2008	KESELSTRASSE 06	ESCHERWYSSE	36	268
2009	MEĐUVRŠJE	ANDINO	32	75
2009	OVČAR BANJA	ANDINO	40	110
2009	SAND PLEASUR	ESCHERWYSSE	18	14
2009	MJOLKA	ESCHERWYSSE	16	11
2011	BLACK ROCK	ESCHERWYSSE	16	11
2013	TUDAYA 1.2	ESCHERWYSSE	32	15
2013	ILISU 10	ESCHERWYSSE	16	8,5

### BUTERFLY VALVE

Year	Name	Land	Project name	pcs.
2008	No. 2700	Serbia	HE Ovčar Banja	1
2008	No. 2200	Serbia	HE Ovčar Banja	1
2009	No. 2700	Serbia	HE Međuvršje	1
2009	No. 2200	Serbia	HE Međuvršje	1
2011	No. 650	Serbia	MHE Prvonek	1
2013	No. 1100	Serbia	MHE Međuvršje	1



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