

Curriculum Vitae

Personal Details

Name	Dipl.-Ing. Erich WAGNER
E-mail	erich.wagner@verbund.com
Nationality	Austria
Gender	male

Memberships

Austrian Energy: Chairman of Dam Safety Group
Member of the board of ATCOLD
Member of the Austrian Engineering association

Work Experience

Period	01/01/2014 – to date
Function	Dam Safety Engineer
Responsibilities, Activities, brief Information	Head of VERBUND Dam Safety department, Responsibility, monitoring and dam safety evaluation acc. to Austrian Water Law 26 reservoirs with 28 barrages (including 200m Kölnbrein arch dam, 186 m Zillergründl arch dam, 106m Mooser gravity dam, 83m Durlassboden CCFD)
Employer	VERBUND Hydro Power GmbH., Austria

Period	01/04/2013 – 31/12/2013
Function	Engineering Director Grenzkraftwerke GmbH
Responsibilities, Activities, brief Information	Authorized Signatory, Leading and coordination of the Engineering Group (civil, mechanical, electrical, I&C), Responsible for operation of 8 run-of-river plants, Capacity 600 MW, Generation 4.000 GWh, 1 pump-storage project (300 MW), 2 run-of river projects
Employer	Grenzkraftwerke GmbH, Germany/Austria
Period	01/10/2011 – 30/04/2013
Function	CEO/CFO EnerjiSA Generation Company
Responsibilities, Activities, brief Information	Technical and commercial leadership of EnerjiSA Generation: 6 Hydro PP, 5 Thermal PP, 2 Wind PP in Operation (Capacity: 1.686 MW, Generation: 10.372 GWh) and 13 Hydro PP, 2 Thermal PP, 1 Wind PP under construction (Capacity: 3.472 MW, Generation: 15.197 GWh) Total Investment app. 5 billion €
Employer	EnerjiSA Enerji Üretim A.S., Turkey
Period	01/03/2011 – 01/10/2011
Function	Engineering Director EnerjiSA Generation Company
Responsibilities, Activities, brief Information	Senior Hydro engineer Authorized Signatory, Leading and coordination of the Engineering Group (civil, mechanical, electrical, I&C, Geology, Surveying)
Employer	EnerjiSA Enerji Üretim A.S., Türkei
Period	2008 - 2011
Function	Department Manager Project Coordination Hydro Power
Responsibilities, Activities, brief Information	Leading and coordination of the Competence Center Hydro Power for Verbund Holding: 12 Companies with 151 Hydro PP in Operation (Capacity: 8.277 MW, Generation: 32.568 GWh) and 40 ongoing Projects (Capacity: 3.326 MW, Generation: 5.599 GWh)
Employer	VERBUND Hydro Power AG, Austria

Period	1994 - 2011
Function	deputy Dam Safety Engineer
Responsibilities, Activities, brief Information	Dam Safety Engineer for the basins Glockner-Kaprun, Gerlos, Zemm-Ziller und Ennstal (15 Dams) Regular duty to monitor and evaluate acc. To Austrian Water Law
Employer	VERBUND Hydro Power AG, Austria
Period	2009 - 2010
Function	Project Manager Pump Storage PP Reißbeck II
Responsibilities, Activities, brief Information	Construction of a Pump Storage PP with 2 pump turbines each 215 MW Capacity, incl. all facilities and developments Tendering, Placing, Start of Construction Total Investment app. 365 M€
Employer	VERBUND Hydro Power AG, Austria
Period	2008 - 2010
Function	Project Manager Pump Storage PP Limberg III
Responsibilities, Activities, brief Information	Construction of a Pump Storage PP with 2 speed controlled pump turbines each 240 MW Capacity, incl. all facilities and developments Feasibility Study, Design Total Investment app. 360 M€
Employer	VERBUND Hydro Power AG, Austria
Period	2005 - 2009
Function	Project Manager Pump Storage PP Limberg II
Responsibilities, Activities, brief Information	Construction of a Pump Storage PP with 2 pump turbines each 240 MW Capacity, incl. all facilities and developments Design, Tendering, Execution, COD 2011 Total Investment app. 365 M€
Employer	VERBUND Hydro Power AG, Austria
Period	2004 - 2007
Function	Deputy Project Manager Power House Rohrberg
Responsibilities, Activities, brief Information	Construction of a Power House with 135 MW Pelton-Turbine, incl. all facilities and developments and Construction of balance pond Design, Tendering, Execution Total Investment app. 70 M€
Employer	VERBUND Hydro Power AG, Austria

Period	1999 - 2004
Function	Project Manager Rehabilitation Penstock Kaprun
Responsibilities,	Construction of an underground penstock
Activities, brief	Design, Permit, Execution
Information	Total Investment app. 35 M€
Employer	VERBUND Hydro Power AG, Austria
Period	1998 - 2002
Function	Coordinator Civil Maintenance
Responsibilities,	General Civil Maintenance for the basins Glockner-Kaprun, Gerlos und
Activities, brief	Zemm-Ziller
Information	
Employer	VERBUND Hydro Power AG, Austria
Period	1997 - 2000
Function	Project Manager Rehabilitation Spillway Limberg Arch Dam
Responsibilities,	Construction of a new Spillway for the 120m high Arch Dam Limberg
Activities, brief	Design, Permit, Execution
Information	Total Investment app. 1.7 M€
Employer	VERBUND Hydro Power AG, Austria
Period	1996
Function	Structural Engineer
Responsibilities,	Structural Calculation for the Hydro PP Birecik with an installed Capacity of
Activities, brief	672 MW in Turkey
Information	
Employer	VERBUND Hydro Power AG, Austria
Period	1995 - 1997
Function	Project Manager Naßfeld
Responsibilities,	Project to store Sediments from the reservoir Margaritze in a Sedimentation
Activities, brief	pond
Information	Design, Permit
Employer	VERBUND Hydro Power AG, Austria
Period	1995 - 1996
Function	Project Manager Rehabilitation rip-rap Sandersee
Responsibilities,	Installation of a diaphragm wall, calculation of the dam body
Activities, brief	Design, Permit, Execution
Information	Total Investment app. 1.2 M€
Employer	VERBUND Hydro Power AG, Austria

Period	1994 - 1996
Function	Project Manager Reservoir Margaritze
Responsibilities, Activities, brief	Flushing the Reservoir Margaritze Design, Permit, Execution
Information	Total Investment app. 2.2 M€
Employer	VERBUND Hydro Power AG, Austria
Period	1992 - 1999
Function	Dam Safety Engineer
Responsibilities, Activities, brief	Limberg Arch Dam (H=120m) Möll Arch Dam (H=93m) Bürg Gravity Dam (H=19m) Margaritze Gravity Dam (H=39m)
Information	Design of safety facilities Documents for authorities
Employer	VERBUND Hydro Power AG, Austria
Period	1991 - 1995
Function	Project Manager heightening of Limberg Dam
Responsibilities, Activities, brief	Increasing the crest elevation of Limberg Dam from 120 to 128 m, Rehabilitation of the inlet of the bottom outlet
Information	Design, Permit
Employer	VERBUND Hydro Power AG, Austria
Period	1991 - 1994
Function	Project Manager Möll
Responsibilities, Activities, brief	Construction of a valve chamber and rehabilitation of the inlet of the bottom outlet
Information	Design, Permit, Execution Total Investment app. 2.5 M€
Employer	VERBUND Hydro Power AG, Austria
Period	1988 - 1992
Function	Structural Engineer
Responsibilities, Activities, brief	Arch Dam – research Project together with technical University Vienna and Cornell University, USA
Information	Calculation of crack path in 2D and 3D with FEM and BEM based on LEFM
Employer	VERBUND Hydro Power AG, Austria

Period	1987 - 1994
Function	Structural Engineer
Responsibilities, Activities, brief Information	Arch Dam Zillergründl (H=186m) structural analyses, fracture mechanics investigation
Employer	VERBUND Hydro Power AG, Austria

Period	1986
Function	Designer
Responsibilities, Activities, brief Information	Winseler Dam (H=35m) Draft design
Employer	Prof. Rescher

Period	1986 - 1987
Function	Assistant Professor
Responsibilities, Activities, brief Information	Technical University Vienna Institute for Hydraulic Engineering (Prof. Rescher) Education and preparation of lectures
Employer	Technical University Vienna

Publications

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| 1991 | "Cracks around the Abutment of Concrete Dams", proc. Int. Conference on Dam Fracture 1991, Boulder, CO, USA |
| 1991 | "Cracking of Boreholes in Arch Dams due to high Pressure Grouting", proc. Int. Conference on Dam Fracture, Boulder, CO, USA |
| 1993 | "Comments on the Arrangement of Grout Curtains with Special Regard to Uplift Pressure in the Case of Large Dams", proc. Int. Workshop on Dam Safety Evaluation, Grindelwald, Switzerland |
| 1993 | "Möll Arch Dam-Reconstruction of Bottom Outlet", proc. Uprating and refurbishing hydro power plants IV, Firenze, Italy |
| 1994 | "Mecanique de la rupture appliquee aux barrages" Special lecture at Ecole Polytechnique Federale de Lausanne, Lausanne, Switzerland |
| 1994 | "Influence of inspection galleries on local crack propagation", proc. Int. Workshop on Dam Fracture and Damage, Chambéry, France |
| 1994 | „Erhöhung der Sperre Limberg“, Österr. Ingenieur und Architekten-Zeitschrift, 139. Jg., Heft 12/1994 |

- 1996 „Spülung des Speichers Margaritze“, proc. Int. Symp. Verlandung von Stauseen und Stauhaltungen, Zürich, Switzerland
- 1997 „Dam Safety Evaluation – Status in Austria“, workshop on risk-based dam safety evaluation, Trondheim, Norway
- 1998 „An advanced automatic monitoring system“, proc. Int. Symp. new trends and guidelines on dam safety, Barcelona, Spain
- 1999 „Überwachung von Talsperren“, Vortrag, Techn. Universität Graz
- 2000,2001 „Erneuerung Kraftabstieg Kaprun Hauptstufe“, Vorträge an den Techn. Universitäten Graz und Innsbruck
- 2003 „Chances in the sediment management of an alpine reservoir“, proc. IAHR Congress, Thessaloniki, Greece
- 2003 „Sedimentation control at the Margaritze reservoir“, proc. Waterpower XIII, Buffalo, USA
- 2007 Pumpspeicherwerk Limberg II, österreichische Wasserwirtschaft, 59.Jahrgang, Mai/Juni 2007
- 2007 PSW Limberg II, Felsbau Oktober 2008
- 2008 Druckstollen - Bemessung, Ausführung, Erfahrung im Betrieb, Felsbau, Oktober 2008
- 2008 Kraftwerksbau einst und jetzt am Beispiel der Kraftwerksgruppe Glockner/Kaprun und des PSW Limberg II in Kaprun, Felsbau 01/2009
- 2009 Bauabwicklung PSW Limberg II, ÖWAV-Seminar Speicher-Pumpspeicherkraftwerke, September 2009
- 2010 PSW Limberg II, Bericht zum österreichischen Betontag 2010
- 2010 Technische Konzeption der Pumpspeicherkraftwerke Limberg II und Reißbeck II, ÖWAV-Seminar Speicher- und Pumpspeicherkraftwerke, Nov. 2010
- 2011 Das Kraftwerk im Berg: Die Baugeschichte des Pumpspeicherkraftwerkes Limberg II, Oktober 2011, Residenz Verlag
- 2013 Design changes mandated by geological features during the development of Seyhan and Ceyhan Hydro Cascades, 9th ICOLD European Club Symposium, Venice 2013
- 2013 Performance-based analysis approach as a tool for dam safety in high-seismic regions, 9th ICOLD European Club Symposium, Venice 2013