WWS PowerGate - Classificaiton

- POWERGATE: automatic compact micro-hydro sytem
- POWERGATE: very low applications 2m,
- POWERGATE: Field of applicaton: Irrigation canals, Dams, Fish farms, Diversions, Reservoirs
- POWERGATE: is developed, designed and manufactured by WWS Wasserkraft in AUSTRIA



WWS PowerGate - Specifications

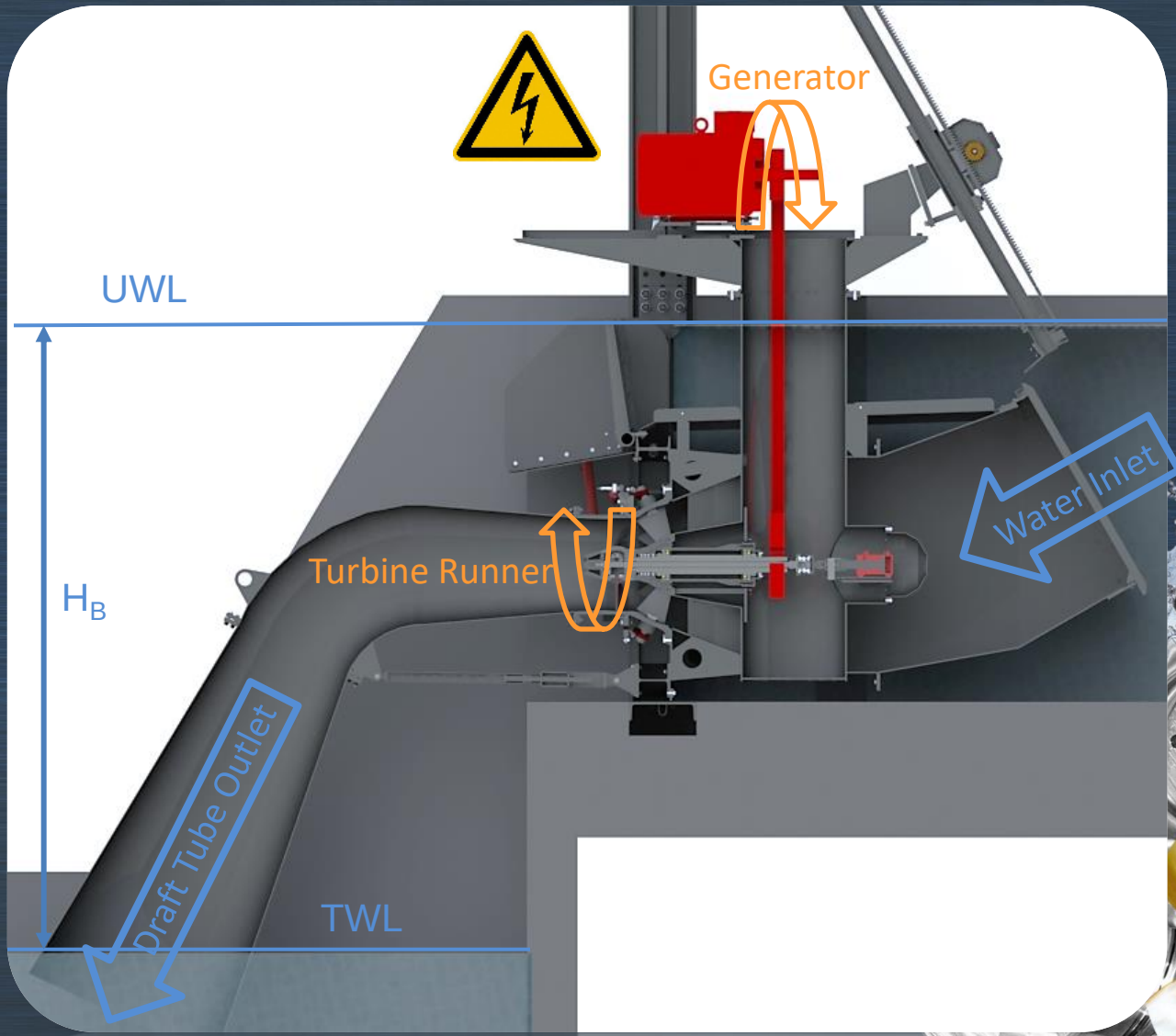
„Revolutionizing the idea in standardizing micro hydro equipment“

Specifications:	POWERGATE
Turbine Type	Kaplan Pit Turbine
Net Head	2 – 10m
Flow Rate	1 – 5 m^3/s
Power Output	30 – 200kW
Runner Diameter	500 – 1200mm
Generator	380-440V; 50/60Hz
Turbine Efficiency	~90%
Lead Time	6 – 8 months



WWS PowerGate - Principle

Projekt: St. Florian – Austria 2015

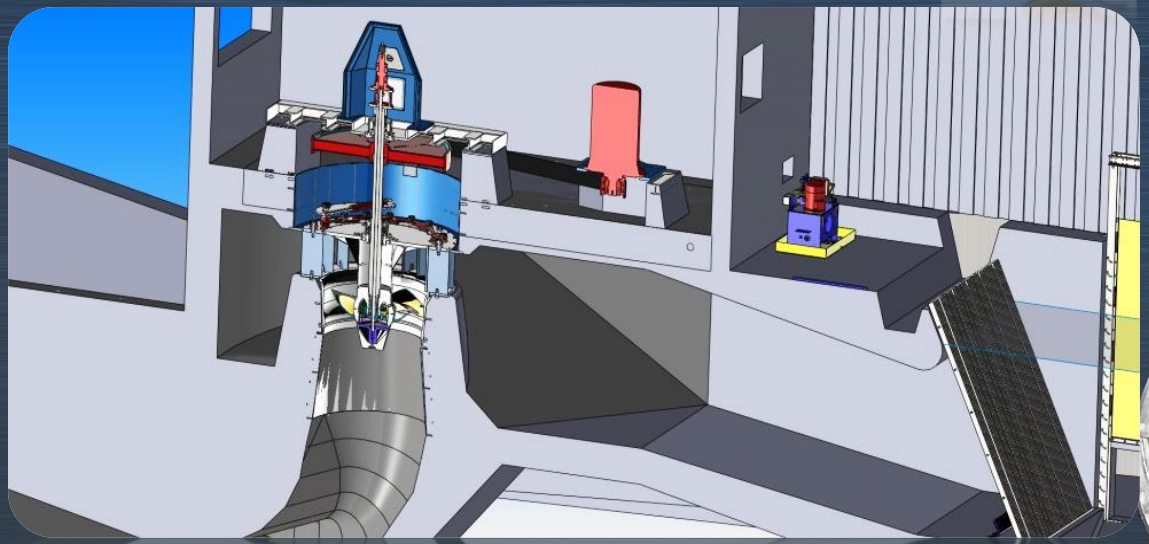


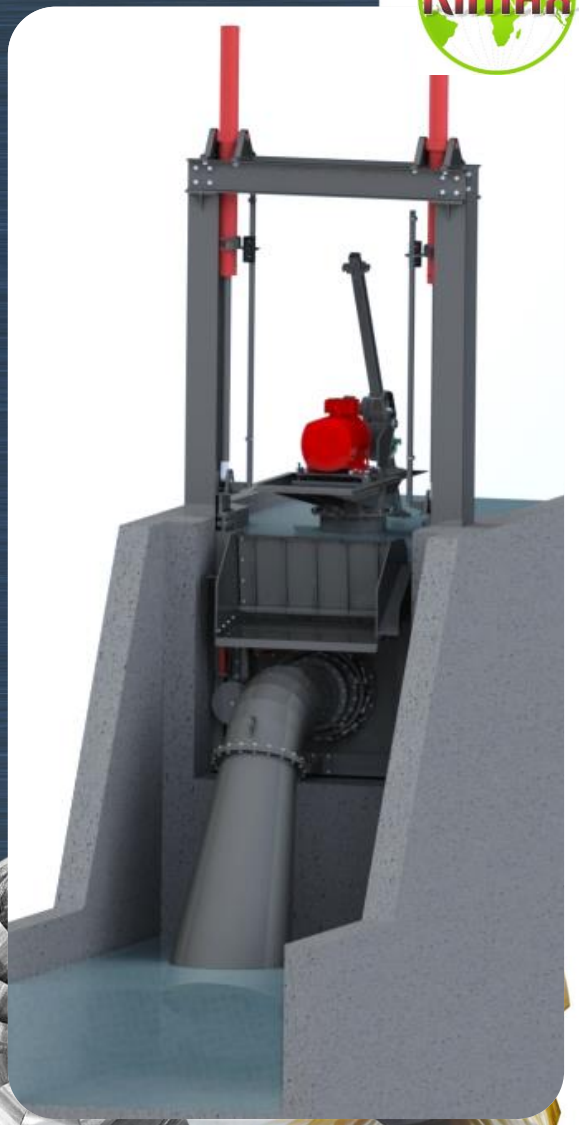


WWS Micro Hydro - Advantages

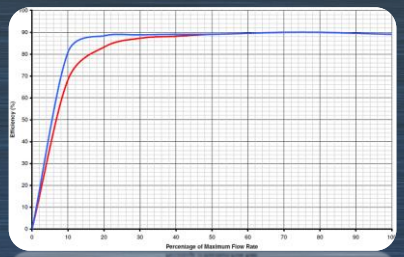
- Minimal civil engineering & construction
- Conventional hydro power: 60-70%
- WWS PowerGate: 20-30%







WWS Micro Hydro - Advantages



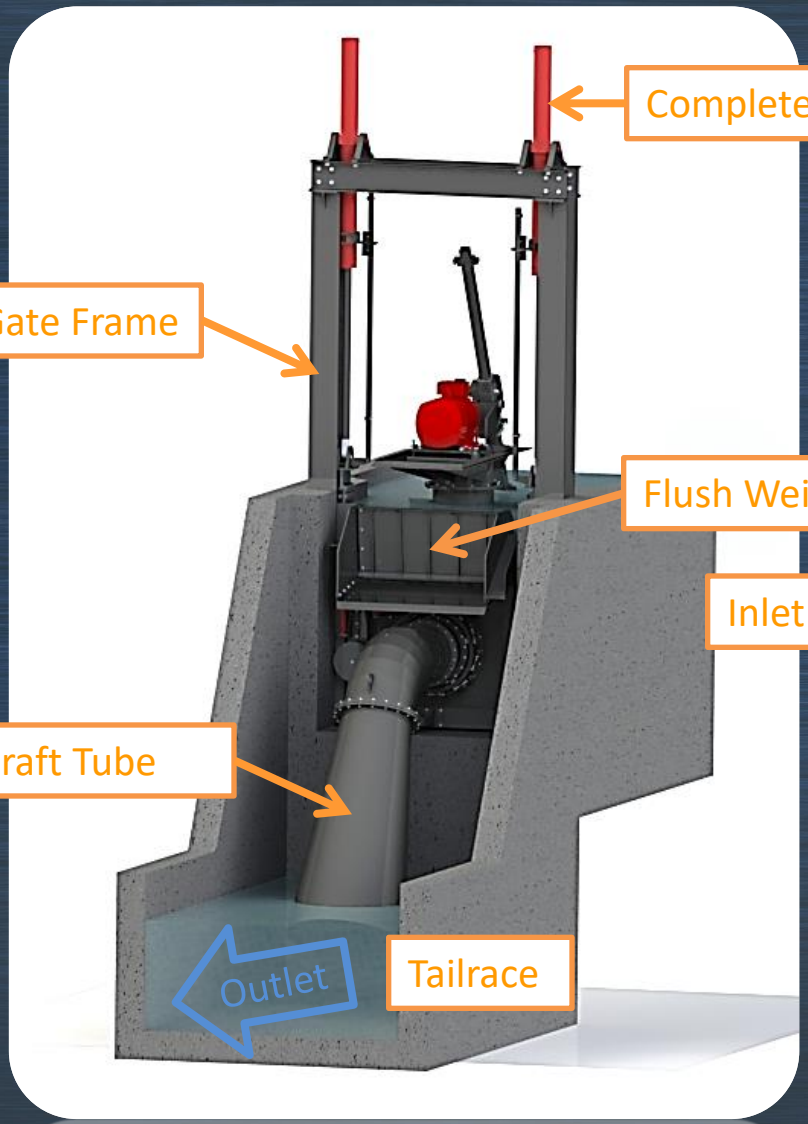
- High efficiency
- Compact electrical design
- Stabilizing effect on grid in rural areas
- Negligible impact on environment and ecology
- Easier procurement (hydrology study, geological report, land purchase, …)

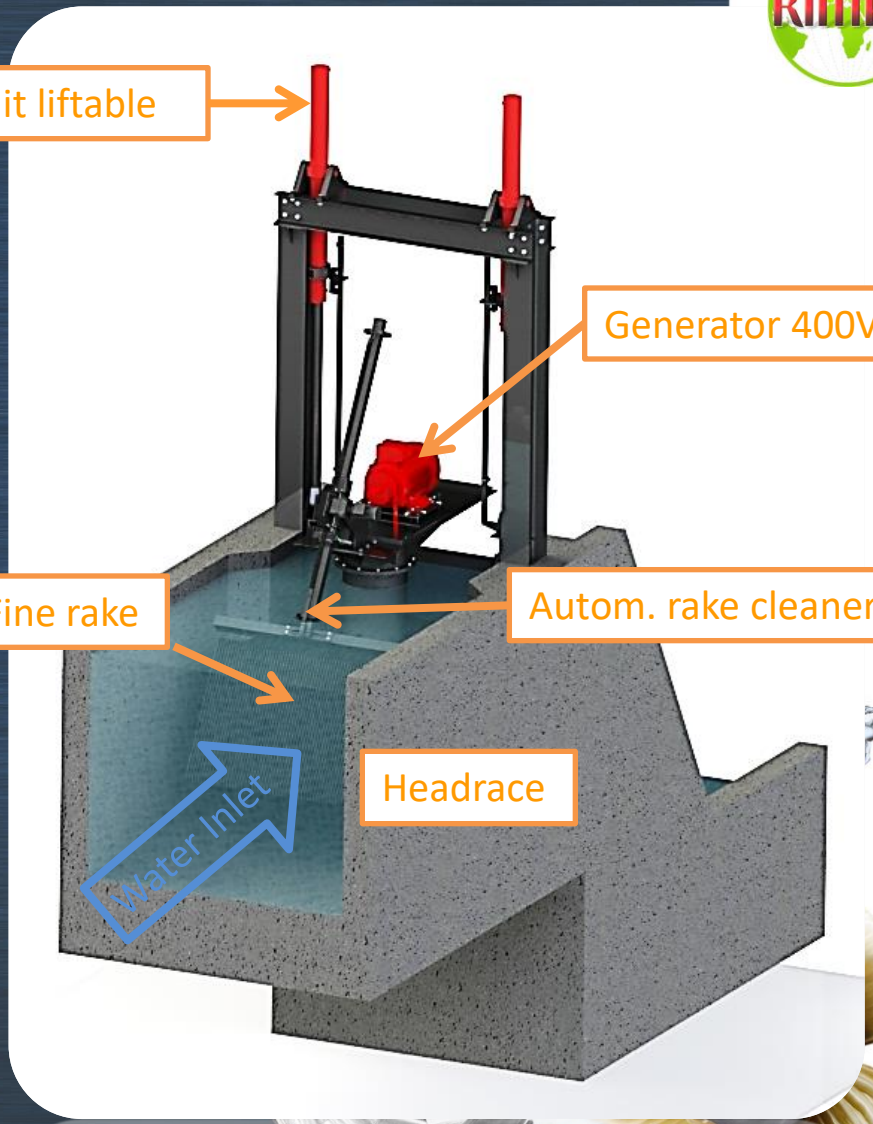






WWS PowerGate – Basic Design





WWS PowerGate - Assembly



Belt Drive Housing

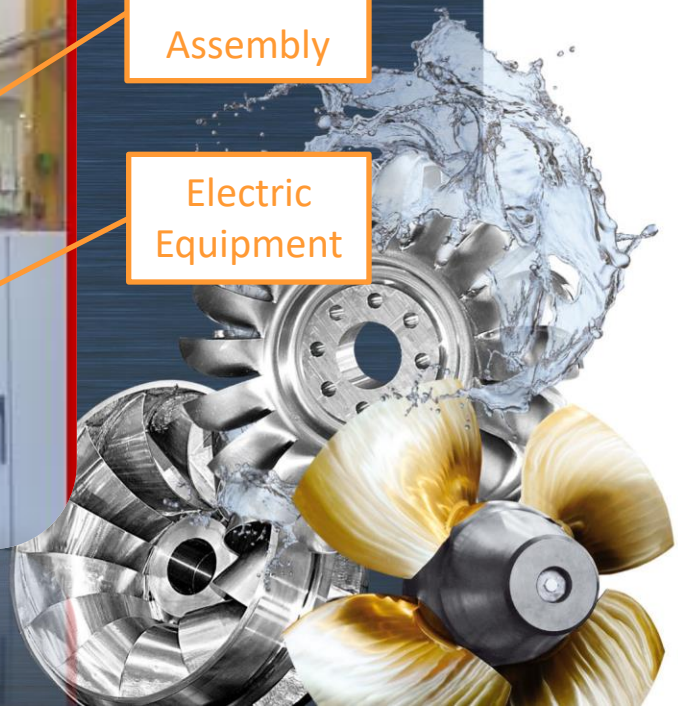
Weir Flap

Turbine Assembly

Generator Assembly

Sluice Gate Assembly

Electric Equipment



WWS PowerGate - Installation

Implementation @ Pollinger, Austria









WWS PowerGate – Field Proofed

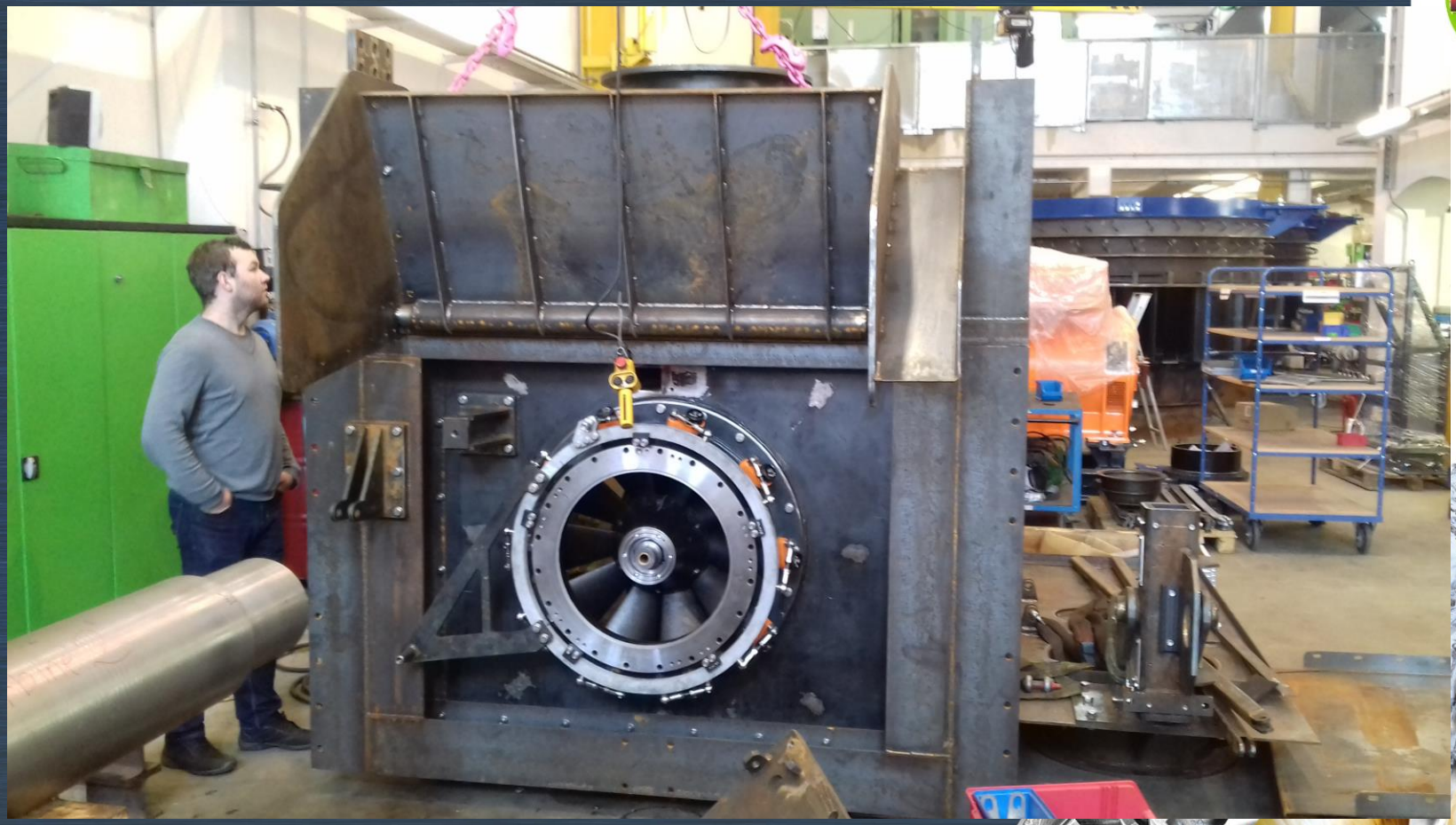
In Production since June 2014 – Pollinger - Austria







WWS PowerGate



WWS PowerGate



WWS PowerGate





WWS PowerGate





WWS PowerGate





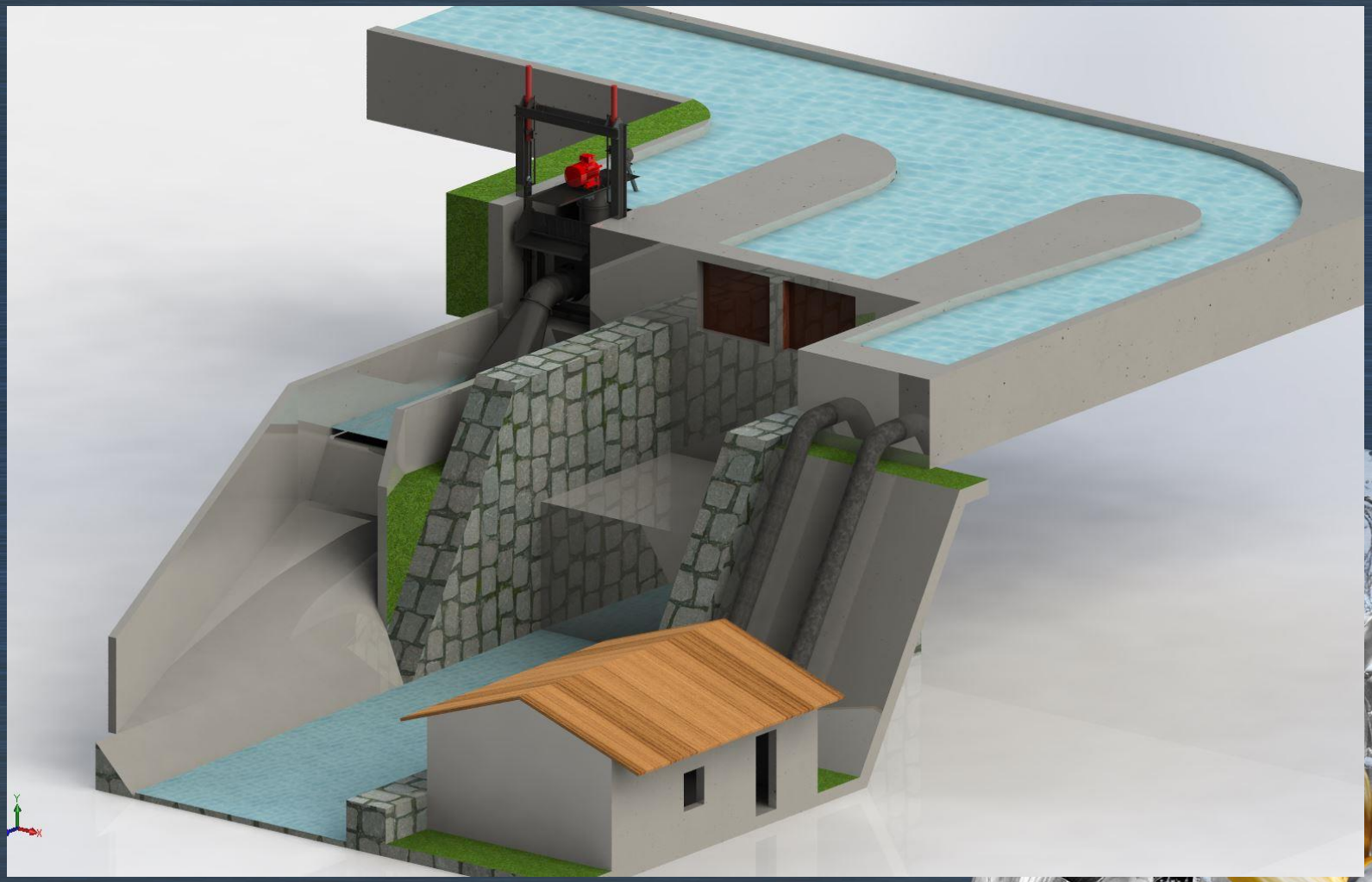
WWS PowerGate



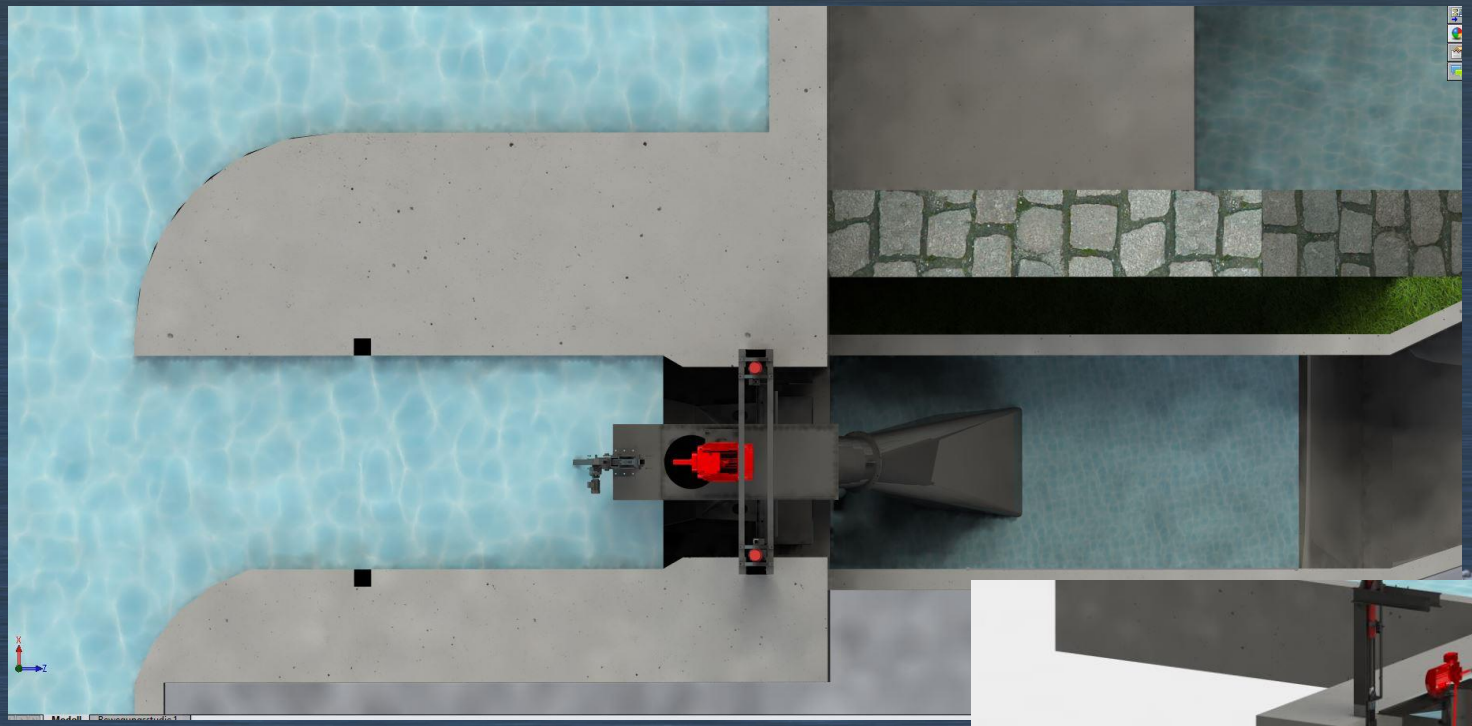


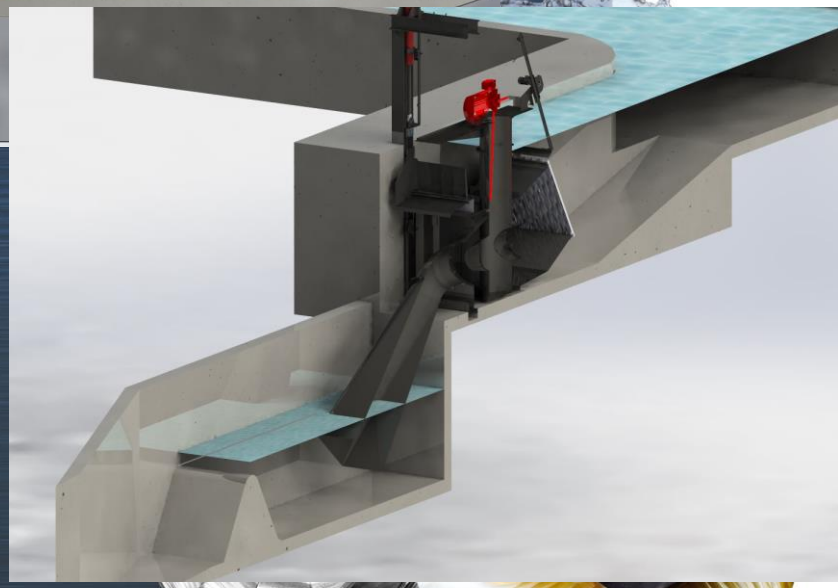


WWS PowerGate



WWS PowerGate





HIGH QUALITY TURBINES MADE IN AUSTRIA

KIMAX
節能綠能產品/流體控制設備

+886-939-615-035
+86-15058442909
+66-811901394

王泓澍
源達事業部總經理
台灣小水力綠能產業聯盟-理事
台灣海洋能發展協會-常務理事

源達企業
T +886-4-23507535 F +886-4-23507531
coupling-32@kimax.com.tw
臺灣台中市西屯區工業區一路二巷3號5F-10
源達關係企業 www.kimax.com.tw
- 源達機電科技 - 印度源達控制設備 - 柏狄自控設備 - 歐尼克機電科技
- 源達貿易 - 寧波源達控制設備 - 柏狄儀表

- 水泵/風機/轉動設備節能 - 流體管道餘壓驅動&發電 - 空調、空壓系統節能
- 永磁直驅馬達 - 綠能: 小水力發電、海洋能、風力發電
- EMS:能源管理與監控系統 - 冷卻水循環系統節能與節水和創能

KIMAX
Energy Saving/Green Energy/Fluid Control

+886-939-615-035
+86-15058442909
+66-811901394

Jay Wang
KIMAX Division G.M.
TW Small Hydropower Alliance - Director
TW Ocean Energy Alliance - Executive director

KIMAX TECHNOLOGY LTD.
T +886-4-23507535 F +886-4-23507531
coupling-32@kimax.com.tw
5F-10, No.3, Alley 2, First Industrial Rd., Xitun Dist.,
Taichung City, Taiwan 407
KIMAX Group www.kimax.com.tw
- Kimax Engineering Co., Ltd - India Kimax Co., Ltd - Bodi Controls Co., Ltd - Autronic Mechanical & Electrical Technology
- Kimax Controls Inc. - Ningbo Kimax Co., Ltd - Bodi Flowmeter Co., Ltd

- Energy Saving of Pumps/Blower/ Cooling Tower/Rotating Eqpt.
- PM Direct Drive Motor.
- Pressure Letdown Energy Recovery (Water turbine or steam turbine generator)
- Air Con/Air CMP Sys.Energy Saving.
- Green Energy:small Hydropower/Wind power/ Ocean Power.

