

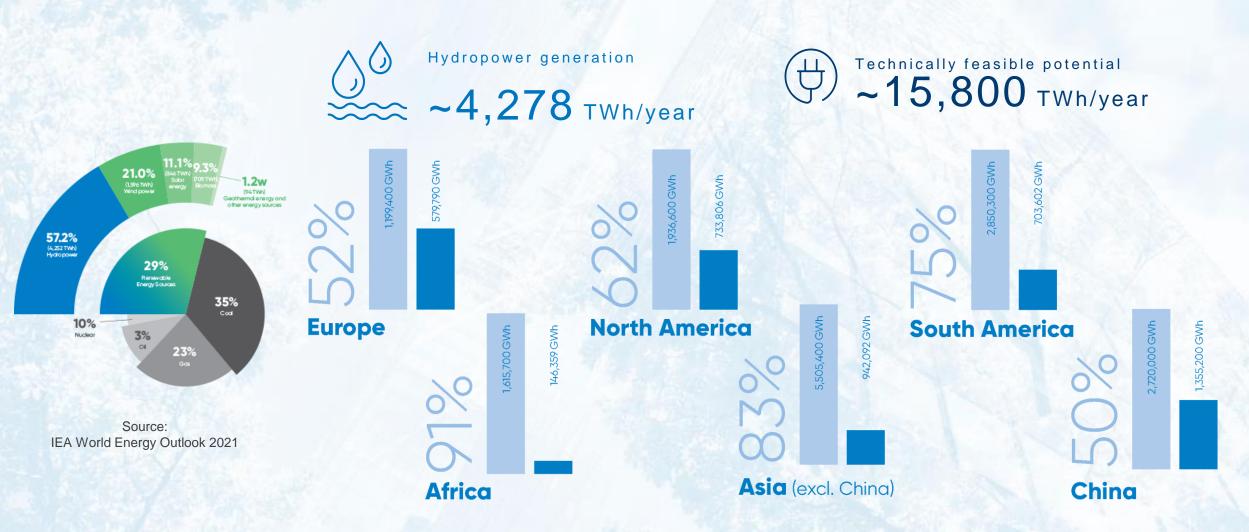
MULTIPLE ROLES OF HYDROPOWER

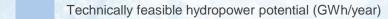




POSSIBILITIES AND OPPORTUNITIES













SCENARIO 2050





WORLD MARKET
LEADER for hydraulic
power generation

YOUR

leading in SERVICE & REHABILITATION

>180 YEARS of turbine experience

GLOBAL

>125 YEARS

electrical equipment experience

>25 GW total installed capacity of Compact Hydro units

>31,900 turbines (>471,000 MW) installed

PARTNER

Complete range up to more than **800 MW**

FROM THE HISTORIC PIONEERS OF TECHNOLOGY TO A MODERN MARKET LEADER



THE PIONEERS CREATED THE FOUNDATION

OUR PIONEERS (ALPHABETICAL ORDER):

AFI ANDRITZ Andritz VA TECH HYDRO Ateliers des Charmilles

Ateliers de Constructions Mécaniques de Vevey (ACMV) Baldwin-Lima-Hamilton

Bell Bouvier Boving C.E.G.B. Dominion Engineering ELIN English Electric

Escher Wyss Finnshyttan GE Hydro GE Hydro Inepar General Electric

Hammerfest Strom Hemi Controls HMI Construction Hydro Vevey

I.P.Morris KAMEWA KMW Kvaerner Møller NOHAB Pelton Water Wheel

Pichlerwerke Precision Machines Ritz Pumpenfabrik SAT Sulzer Hydro

Tampella VA TECH HYDRO VOEST Voest MCE Waplans

2021 Largest rehabilitation project (Mexico)

2021 Co-located energy plant (Kidston, Australia; PSP, Solar, Wind)

2016 First commercial tidal current array unit (Meygen, Scotland)

2012 World largest Hydromatrix plant (Ashta, Albania)

2011 World largest Bulb turbine (Jirau and St. Antonio, Brazil)

2008 World largest tidal power plant (Sihwa, South Korea)

2008 770 MW Francis turbine (Simon Bolivar, Venezuela)

2002 First var speed motor-generator outside Japan (Goldisthal, Germany)

1991 World largest manifold (Tarbela, Pakistan; World Record)

1896 First large commercial hydropower plant

1839 First turbine supplied

1805 Foundation of Escher Wyss & Cie, Switzerland

GLOBAL PRESENCE

CLOSE TO OUR LOCAL CUSTOMER

EUROPE

NORTH AMERICA

Canada: Boucherville, Chambly, Lachine, Paris, Peterborough, Point-Claire, Vancouver

Mexico: Morelia

USA: Charlotte, Spokane

Austria: Graz, Linz, Vienna, Weiz

Czech Republic: Prague,

Budweis

Finland: Tampere Georgia: Tbilisi

Germany: Berlin, Ravensburg

Hungary: Tiszakécske

Italy: Schio

Norway: Jevnaker Portugal: Porto Scotland: Glasgow Slovakia: Levice Spain: Madrid Sweden: Nälden Switzerland: Kriens, Vevey, Jonschwil

Turkey: Izmir Ukraine: Kiev Bhutan: Chhukha

China: Beijing, Chengdu, Foshan India: Bhopal, Faridabad,

Jammu, New Delhi Indonesia: Jakarta

Japan: Tokyo

Kazakhstan: Almaty

ASIA

Lao PDR: Vientiane
Malaysia: Kuala Lumpur
Myanmar: Yangon

Nepal: Kathmandu
Philippines: Manila
South Korea: Seoul
Tajikistan: Dushanbe

Vietnam: Hanoi

CENTRAL & SOUTH AMERICA

Brazil: Araraquara, Sao Paulo Chile: Santiago de Chile Colombia: Bogota Venezuela: Caracas

Peru: Lima

AFRICA

6.751*

EMPLOYEES

(without apprentices)

Democratic Republic of the Congo: Kinshasa



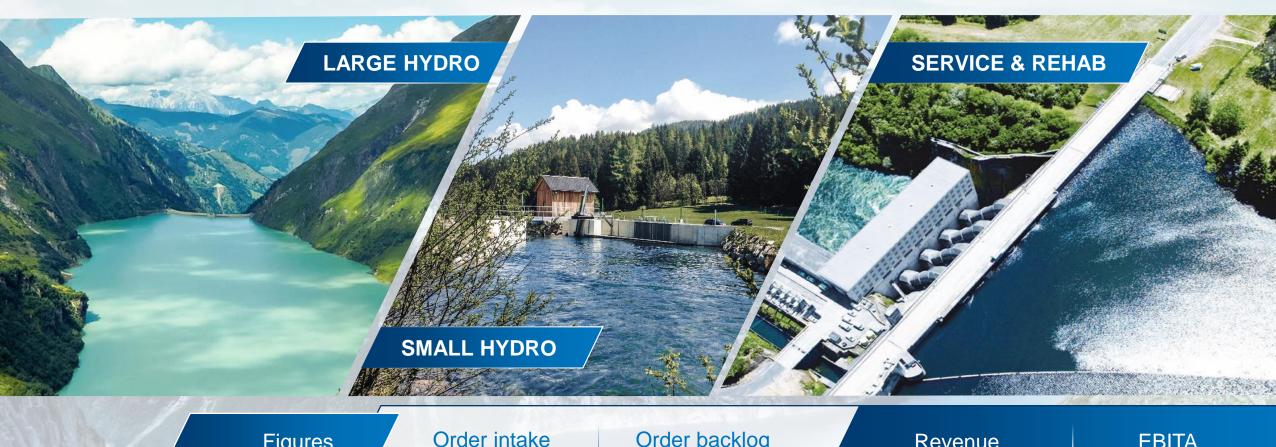
Australia: Sydney

New Zealand: Christchurch

* - by Q4/2022

FACTS AND FIGURES





Figures **2022**(*)

1,956.6 MEUR

Order backlog 3,165.5 MEUR

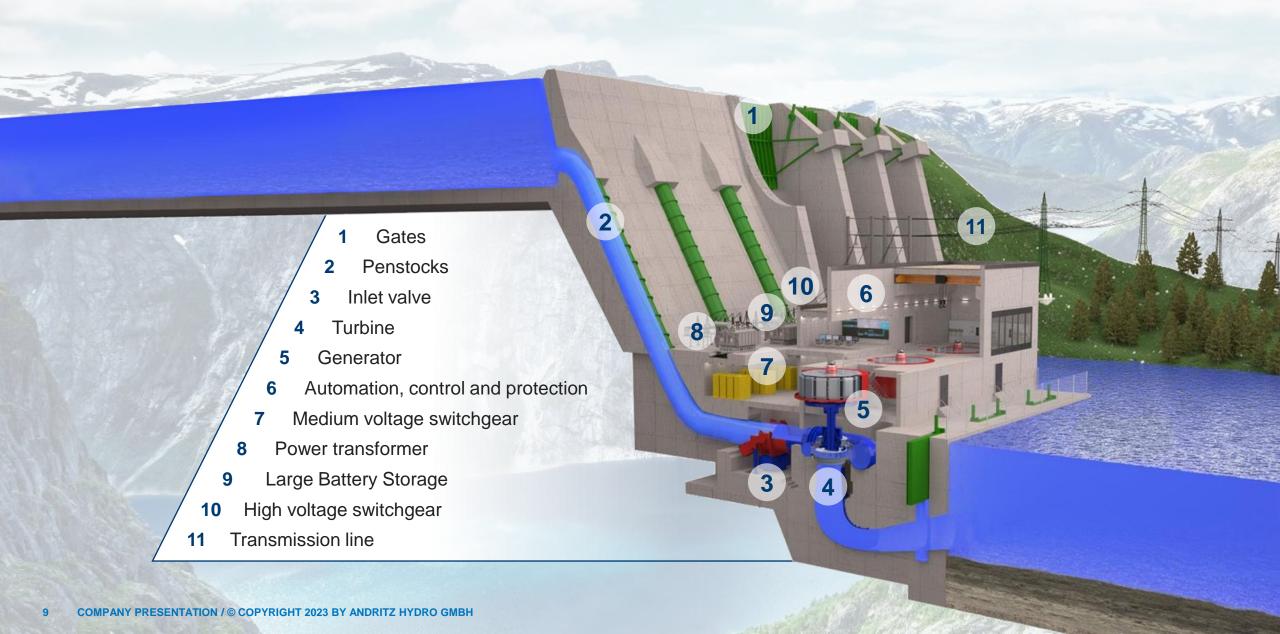
Revenue 1,538.0 MEUR

EBITA **114.7 MEUR**

(*) – incl. pumps division

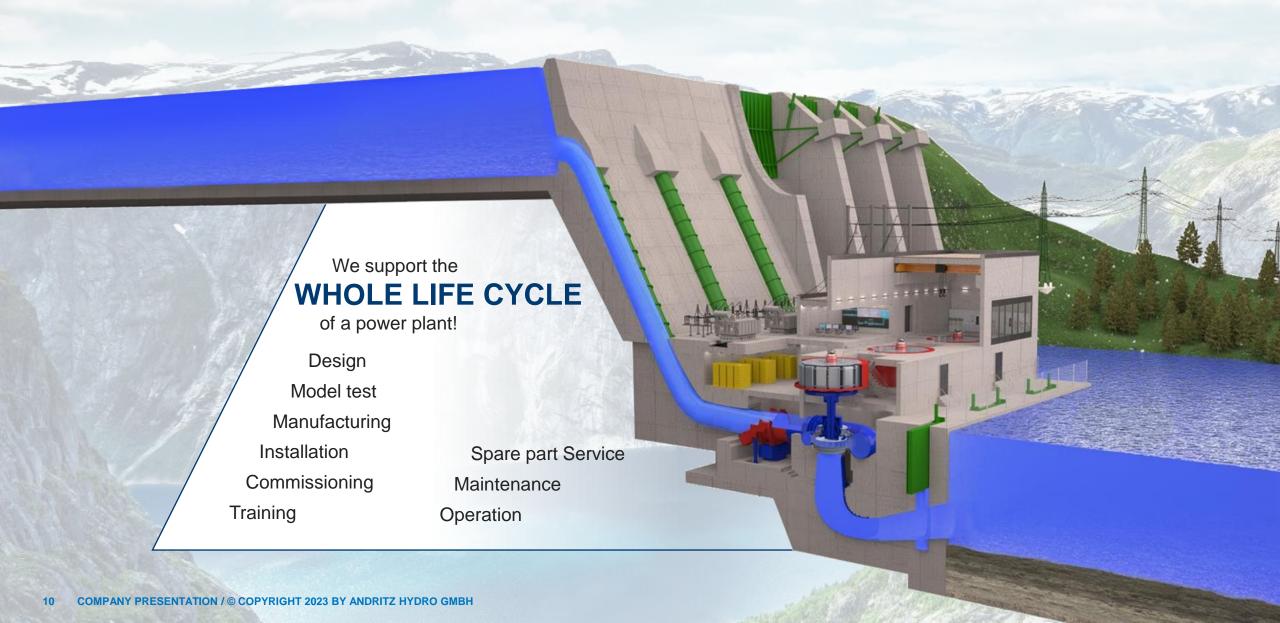
FROM WATER TO WIRE



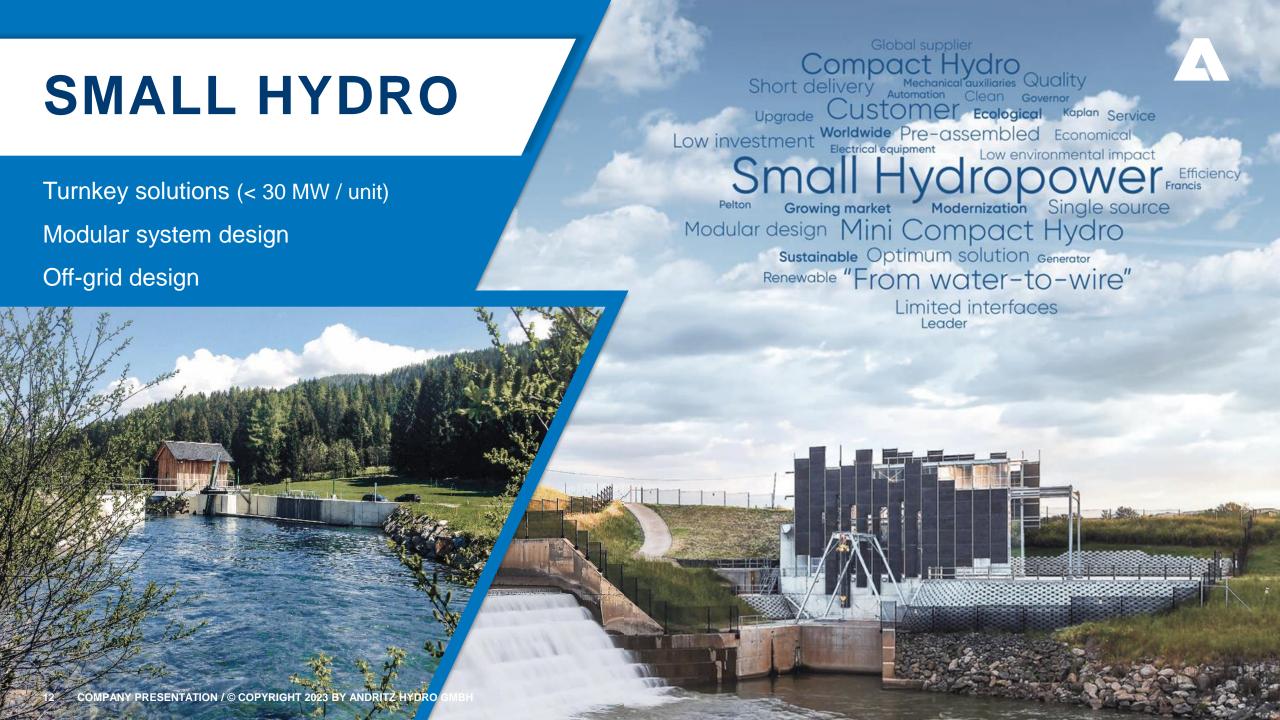


FROM WATER to WIRE











THE GLOBAL MEGA TRENDS









RENEWABLE SOLUTION: SYNCHRONOUS CONDENSER

BALANCES GRID VOLATILITY
EFFECTED BY WIND AND SOLAR



RELIABLE, PROVEN AND COST-EFFECTIVE TECHNOLOGY

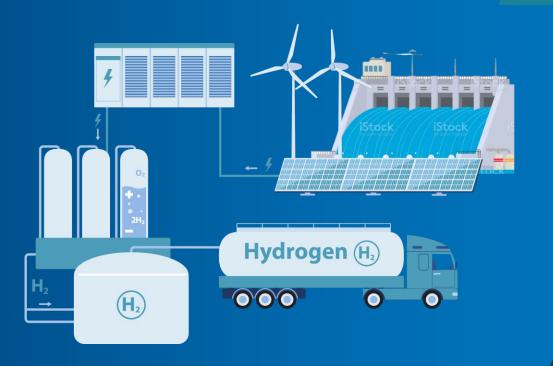
LARGE ROTATING MASS TO IMPROVE GRID STABILITY, PROVIDING INERTIA

PROVIDES OVERLOAD CAPABILITY, SHORT CIRCUIT POWER, REACTIVE POWER



NEW TECHNOLOGIES AND CONCEPTS

HYDROGEN. Installed electrolysis capacity up to **100 MW.**



OCEAN ENERGY. GENERATING POWER from ocean waves, currents or tidal streams







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