

GLOBAL MEGATRENDS IN A CHANGING WORLD



Climate Change



Energy Transition



Digitalization



THE IMPORTANT ROLE OF HYDROPOWER



Water



Water storage, flood mitigation, irrigation, water supply and navigation

Electricity



Industry, transportation, heating, cooling, lighting

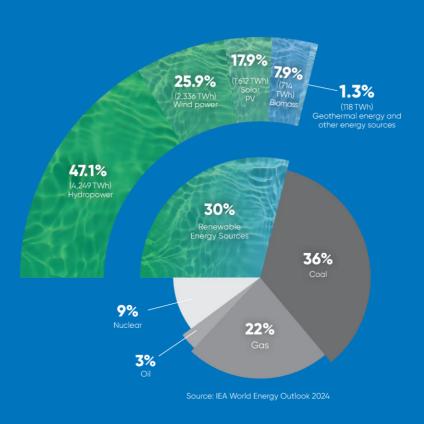
Storage



Energy balancing, stabilizing of the grid, peak load generation

GLOBAL HYDROPOWER MARKET

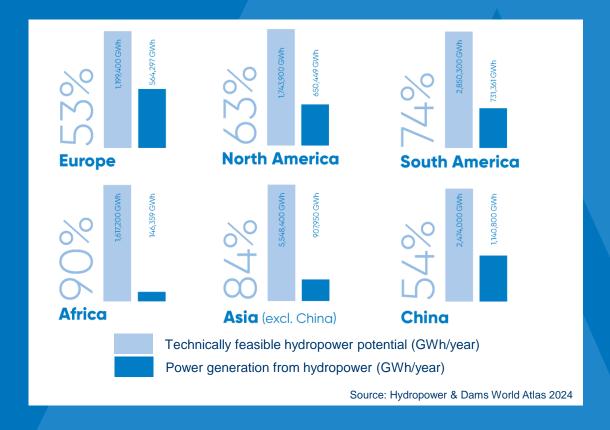




Hydropower generation

Technically feasible potential

~4,161 TWh/year ~15,161 TWh/year



HYDROPOWER ENERGY SCENARIO 2050





ANDRITZ HYDROPOWER



Overview

World market leader in equipment for hydraulic power generation

Complete range up to more than 800 MW

- >185 years of turbine experiences
 - 33,300+ turbines (492,000+ MW) installed
 - >20% of all operational turbines worldwide
- >135 years of electrical equipment experiences
- comprehensive operation and maintenance services for entire hydropower plants

Highlights

- Power grid solutions and synchronous condensers
- State-of-the-art digital solutions
- Turbo generators for the thermal industry
- Ocean energy solutions and controllable pitch propellers

6,000+ employees* 50+ locations, 40+ countries

* Figures as of end of 2024

Australian Bureau of Statistics, GeoNames, Microsoft, Navinfo, Open Places, OpenStreetMap, Overture Maps Fundation, TomTom,

ISO 9001:2015 Quality Management ISO 14001:2015 Environmental Management ISO 45001:2018
Occupational H&S Management

ISO 19600:2014 Compliance Management ISO 27001:2013
Information Security Management

ISO 37001:2016 Anti-bribery Management ISO 55001:2014 Asset Management

ANDRITZ HYDROPOWER



Facts and figures*

Order intake **2,170.5 MEUR**

Order backlog 3,933.7 MEUR

Revenue (Sales) 1,537.9 MEUR

EBITA 96.3 MEUR

Global employees 6,000+



Large Hydro

Greenfield and large rehabilitations/upgrades

Turnkey electromechanical equipment

Power grid solutions and synchronous condensers



Compact Hydro

Modular system design for small hydropower

Turnkey solutions up to 30 MW / unit

Off-grid design



Service and Rehab

Brownfield and modernization, upgrade, and uprate

Automation and digitalization

Operation & Maintenance

Asset Management



Turbo Generator

Generators up to 350 MVA / unit

Service and maintenance



Other products

Ocean energy solutions for:

Tidal power and Tidal current power plants

Controllable pitch propellers

* as of end of 2024



THE PIONEERS CREATED THE FOUNDATION

Project and technology highlights

2023 Ina	uguration of	new test rig	(world	record)
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2022 Hybrid energy solution (Gandhi Sagar, India)

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

1892 Foundation of Pichlerwerke, Austria

1839 First turbine supplied

1805 Foundation of Escher Wyss & Cie, Switzerland

Our Pioneers

AFI - ANDRITZ - 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 Moeller - NOHAB - Pelton Water Wheel - Pichlerwerke Precision Machines - SAT - Sulzer Hydro - Tampella VA TECH HYDRO - VOEST - Voest MCE - Waplans

(alphabetical order)

"FROM WATER-TO-WIRE"

Support for the whole life cycle of a hydropower plant

Products and solutions

- 1 Gates
- 2 Penstocks
- 3 Inlet valve
- 4 Turbine
- 5 Generator
- 6 Automation, control and protection
- 7 Medium voltage switchgear
- 8 Power transformer
- 9 Large battery storage
- **10** High voltage switchgear
- 11 Transmission line

Services

Design

Model test

Manufacturing

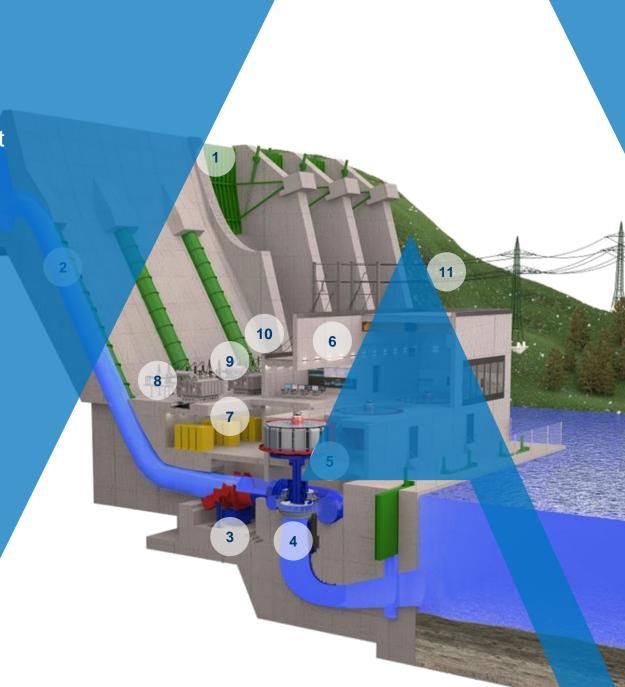
Installation

Commissioning

Training

Spare part service

Maintenance



PUMPED STORAGE - ENABLER OF THE GREEN ENERGY TRANSITION

Facilitating the integration of larger shares of variable renewables

Our Scope:

Pumped storage solution "from water-to-wire"

HIGHLIGHTS:

· Fixed or variable speed

APPLICATIONS:

 Short-/mid-term storage, grid stabilization, integration of solar and wind energy, stabilizing of energy supply for hydrogen production



SYNCONS - SUPPLIER OF HIGH INERTIA FOR GRID STABILITY

Balancing grid volatility effected by wind and solar

Scope:

Power grid solutions with stand-alone synchronous machine

HIGHLIGHTS:

High rotating mass

APPLICATIONS:

Power grid stability









Seamless and secure access with modern digital solutions

Scope:

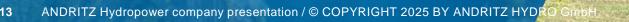
Automation solutions from unit level to full fleet control

HIGHLIGHTS:

- Digital Operation & Maintenance
- Cybersecurity

APPLICATIONS:

Integrated automation for local/remote operation





Providing constant 24/7 energy to the grid

Scope:

Combination of different co-located renewable energy technologies

HIGHLIGHTS:

Pumped storage and joint operation

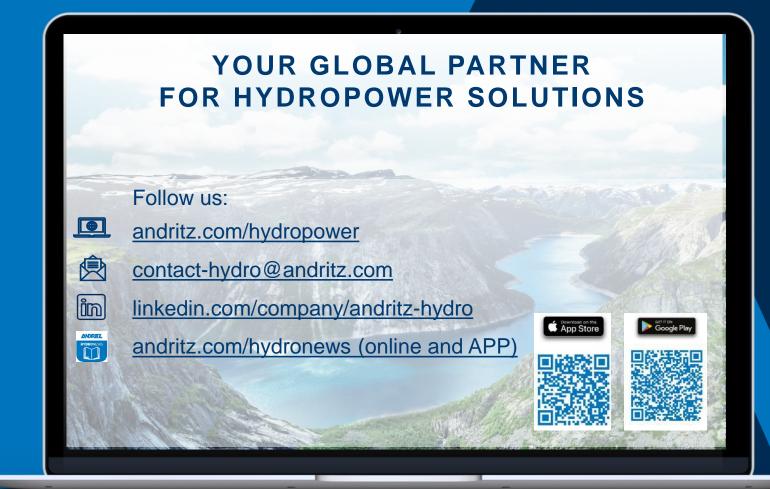
APPLICATIONS:

Regulated power off-take to the grid





CREATING GROWTH THAT MATTERS



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