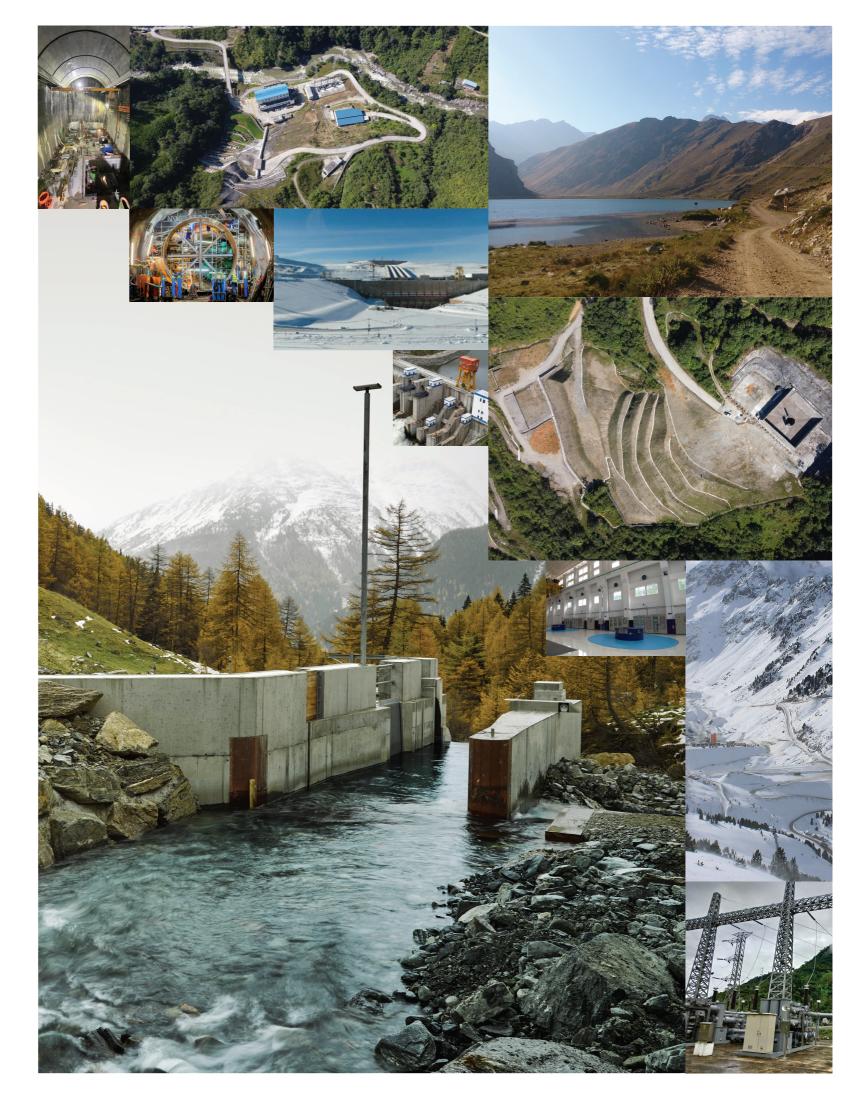


From the Swiss Alps to the World

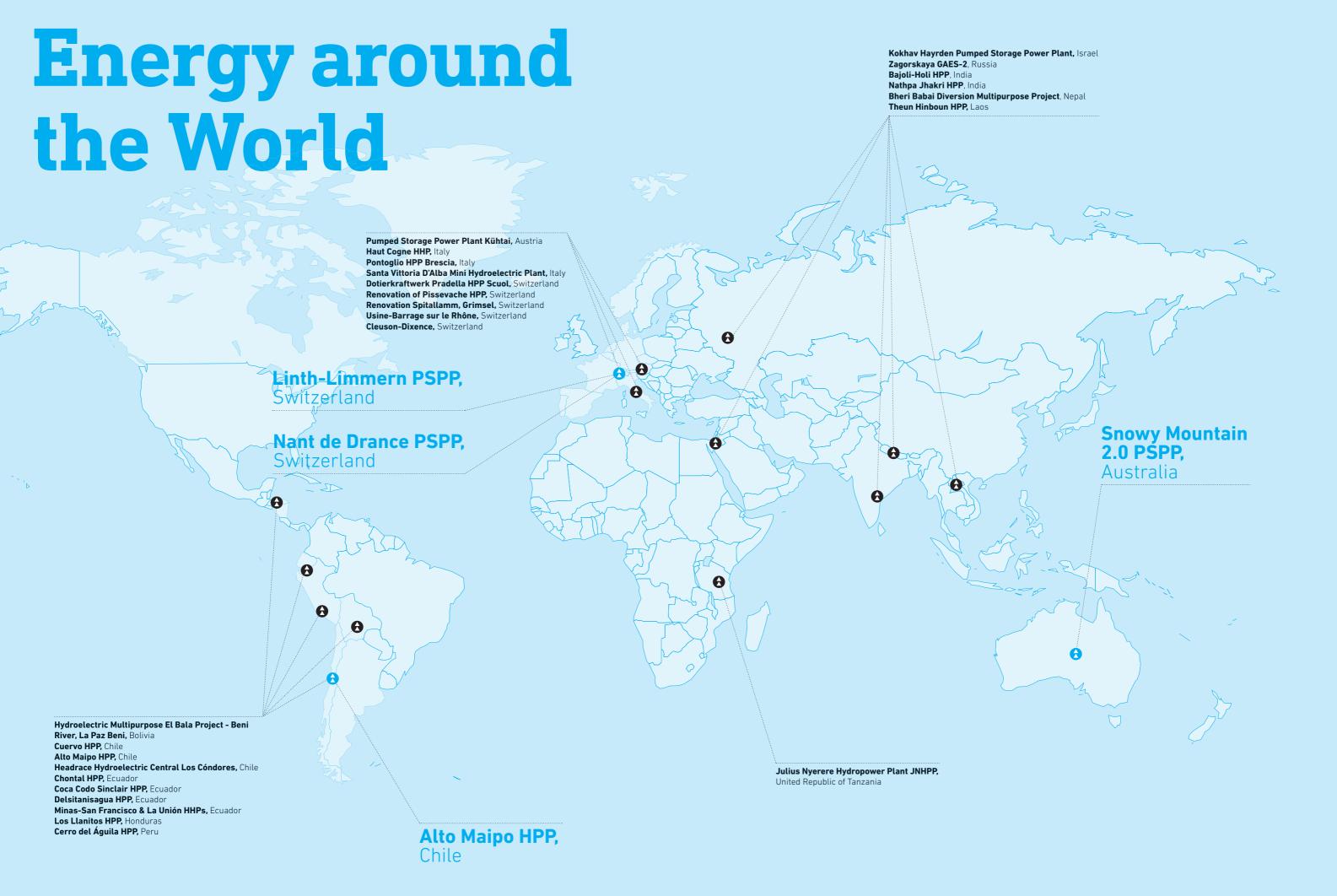
Switzerland's tradition in hydroelectric power has roots dating back to the 19th century.

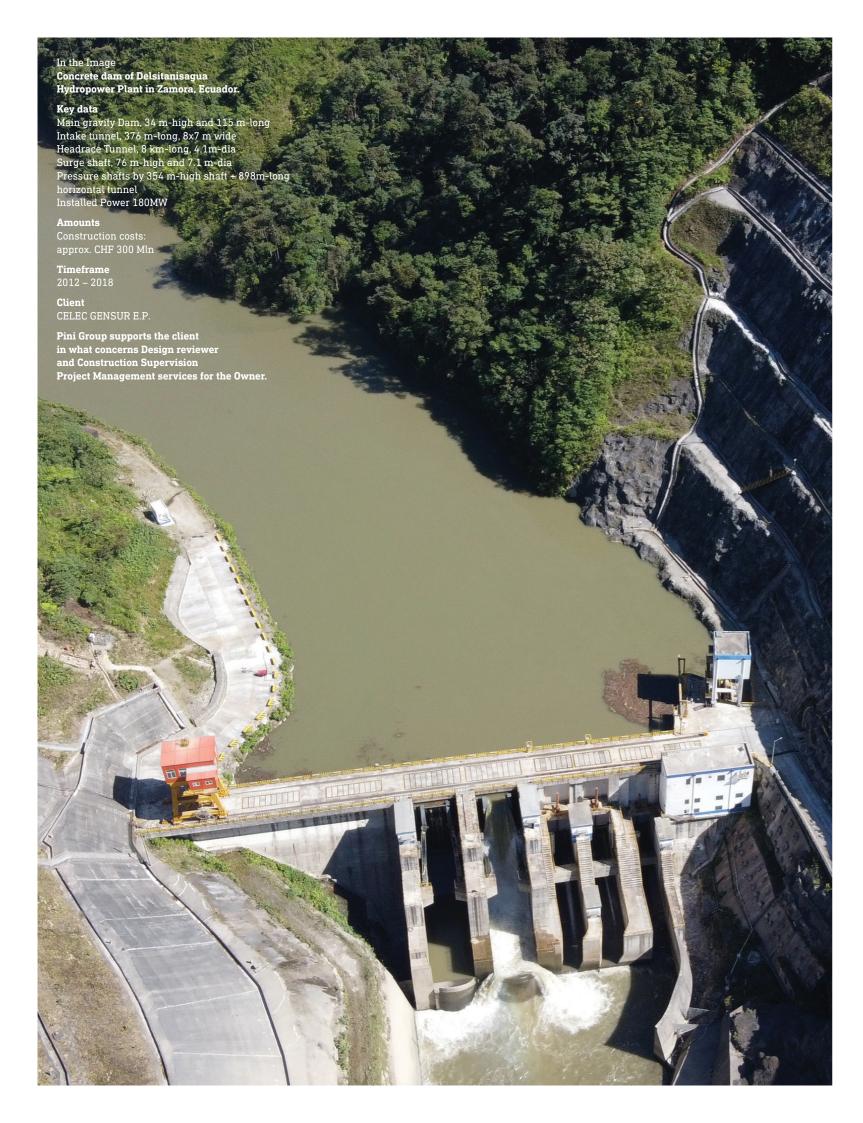
Since then, the sector has experienced steady growth, with increasing investments that have concurrently elevated the general know-how of the companies involved in the design.

Pini Group leverages this long-standing tradition and its network of capabilities to export expertise in the hydropower sector worldwide today.









Our expertise

A multidisciplinary approach

Thanks to our knowledge and expertise, we provide high-level design quality starting from the needs of the client. This is achieved through a cross-cutting approach to multiple areas of expertise, such as hydrology, geology, the study of local conditions, market and economic analysis, key financial indicators. These are, of course, complemented by the most modern design methodologies and good practice tools, such as Water Transient Analysis, 3D Flood Impact Assessment, GIS Management, 3 and 4D modeling, and BIM modeling.

Context analysis

The understanding of the local context is a fundamental element in our approach to define technical solutions that fit well with the environment, social and political expectations.

Digital Engineering

Land Planning, GIS Management, 3D-4D models are some of the tools we successfully apply in our hydro Project. 3-D coordination models of the main structures of the powerplant are the basis for the incorporation of the whole system in a BIM Model, that can be used by our Client for O&M stage.

Environmental and social aspects

We have always favored less impactful and more sustainable engineering solutions for proper integration of resilient infrastructure and environment. Awareness of the current state of the situation and prediction of future scenarios, such as climate change, play an indispensable role in successful planning and implementation.

Design of Civil Work and E&M coordination

In every Hydro project Civil, Electromechanical (E&M) and Hydromechanical (H&M) designs are closely connected and integrated: we effectively assist our clients in all development phases from conceptual design to commissioning, with a fully integrated approach.

Project Phases

- Conceptual design & Strategic Planning
- Preliminary design
- Tender design for Contractors
- Final & detailed design
- Construction Management
- Commissioning & Testing

Key person



Pierluigi Nionelli Head of Business Line Hydropower pierluigi.nionelli@pini.group



