

ITALIAN TECHNOLOGIES FOR A GREENER FUTURE

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Stand I147



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BAXENERGY
A Yokogawa Company

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INDEX

**MESSAGES FROM THE ITALIAN TRADE
COMMISSIONER, THE AMBASSADOR OF
ITALY TO AUSTRALIA AND THE CONSUL
GENERAL OF ITALY IN MELBOURNE**

5

THE ORGANISERS

ITA - ITALIAN TRADE AGENCY

7

FEDERAZIONE ANIE

8

**THE ITALIAN ELECTROMECHANICAL
INDUSTRY**

10

PARTICIPATING ITALIAN COMPANIES

ATB RIVA CALZONI

12

BAXENERGY - A YOKOGAWA COMPANY

13

CELME TRANSFORMERS

14

CEMBRE

15

ECOPROGETTI

16

ELPOWER

17

KEMA LABS - A CESI BRAND

18

WESTRAFO

19

NOTES

20

MESSAGES FROM THE ITALIAN
TRADE COMMISSIONER,
THE AMBASSADOR OF ITALY
TO AUSTRALIA AND
THE CONSUL GENERAL
OF ITALY IN MELBOURNE

It is with great pride that I welcome you to the Italian Pavilion at All Energy Australia 2024. Italy is a global leader in renewable energy, boasting a dynamic and innovative industry that has consistently demonstrated its commitment to sustainability and technological excellence. Our participation in this premier event underscores the strong partnership potential between Italy and Australia, particularly as both nations strive to achieve ambitious green energy targets.

Italy's renewable energy sector is characterised by its advanced manufacturing capabilities, a robust supply chain, and a tradition of excellence in engineering. The companies present here are not only equipped to provide high-quality products and services, but they are also eager to establish long-term partnerships that will drive the transition to a more sustainable future in Australia.

I invite you to explore the offerings of the Italian Pavilion and to engage with our exhibitors, who are ready to collaborate and contribute to the success of Australia's renewable energy initiatives.



Simona Bernardini
*Italian Trade Commissioner
for Australia and
New Zealand*



Embassy of Italy
Canberra



Consulate General of Italy
Melbourne

The presence of an Italian Pavilion at All Energy Australia for the first time demonstrates the growing interest of Italian companies in supporting the ambitious energy transition in Australia. The renewable sector covers more than one-third of Australia's total electricity production, and the relevance of this industry is destined to increase over time, considering the common goal of building a greener future. I would like to thank the Italian Trade Agency for allowing our companies to be here in Melbourne and for creating new opportunities for trade between Italy and Australia in such a pivotal sector.



H.E. Paolo Crudele
Ambassador of Italy to Australia

I am delighted to welcome you to Melbourne and to this important event. Victoria's renewable energy sector is thriving, thanks to abundant natural resources and its committed energy target. The numerous Italian co-exhibiting companies are a concrete example of how the private sector plays a driving and decisive role in reducing CO2 emissions by increasing renewable energy sources. This exhibition will be both a useful knowledge-sharing hub and a precious opportunity to highlight the expertise and high-level technology of Italian players in this crucial sector.



Chiara Mauri
*Consul General of Italy
in Melbourne*

THE ORGANISERS



ITALIAN TRADE AGENCY

Established in 1926, the Italian Trade Agency (ITA/ICE) is the Governmental Agency dedicated to promoting Made in Italy products worldwide, supporting the growth of Italian companies and attracting foreign investments to Italy.

Operating from its headquarters in Rome, ITA has a global network of 87 offices in 74 countries, serving as the ideal gateway for enterprises seeking to establish business relationships with Italian partners, source Italian products or explore investment opportunities in Italy. It focuses on facilitating, developing and promoting Italian economic and trade relations with foreign countries,

with a particular emphasis on the needs of SMEs, their associations and partnerships.

With a motivated and modern organisation and an extensive network of overseas offices, ITA provides information, assistance, consulting, promotion and training to Italian small and medium-sized businesses. Utilising the latest multi-channel promotion and communication tools, ITA works to assert the excellence of Made in Italy on the global stage.

The office in Sydney is responsible for both Australia and New Zealand.

Level 19, 44 Market Street
Sydney NSW 2000
Australia

☎ +61 2 9299 9954 ✉ sydney@ice.it
🌐 www.ice.it | madeinitaly.gov.it





FEDERAZIONE ANIE

Federazione ANIE, member of Confindustria, represents the Electrical Engineering and Electronic companies operating in Italy.

With over 1,100 member companies, the ANIE system supplies technologies for public and private infrastructures in strategic markets such as energy, industry, building, infrastructures, transports.

By creating daily opportunities for dialogue and discussion, ANIE is an important meeting point for the business community it represents, from which new synergies and new business opportunities originate.

The sector employs 420,000 people with an aggregate turnover at the end of 2023 of 103 billion Euros (170.8 billion AUD) and an incidence of expenditure on Research and Development equal to 4%.

Electrical Engineering and Electronic technologies represent the heart of the twin transition – green and digital. They are drivers of innovation and are essential for the modernisation of existing infrastructure.

ANIE industry figures for 2023:

- 103 billion Euros of total turnover
- 420,000 employees
- 4% intra-mural R&D expenditure on total turnover

Viale V. Lancetti, 43
20158 Milano, Italy

☎ +39 02 32 64 227

✉ internazionale@anie.it

🌐 www.anie.it

Mariarosaria Fragasso, Alice Bertazzoli



THE ITALIAN ELECTROMECHANICAL INDUSTRY

The Italian industry providing technologies for the energy sector, represented by ANIE – the Italian Federation for the Electrical Engineering and Electronic Industry – involves companies active in power generation, transmission & distribution, and solutions for transport, industry and infrastructure.

In 2023, this industry achieved an aggregate turnover of €10.9 billion (A\$18 billion), marking years of consistent growth both domestically and internationally. Notably, the Italian electromechanical industry ranks second in Europe, following Germany, in terms of aggregate turnover value. Italian technologies are exported to over 100 countries annually, underscoring Italy's leadership in technological innovation throughout the entire electric industry value chain.

Italy stands out in Europe – a continent that hosts over 20% of the world's renewable capacity – as one of the leading areas with significant results from renewable energy investments.

Policies such as feed-in tariffs, tax incentives and subsidies under the National Integrated Plan for Energy and Climate (PNIEC) have been pivotal in driving investments in renewable energy projects. As a result, Italy is on track to significantly reduce its carbon footprint and renewables play a strategic role in the Italian electric sector, accounting for 37% of final demand as of December 2023. Additionally, the development of smart grids and energy storage solutions is expected

to enhance the efficiency and reliability of renewable energy integration, positioning Italy as a leader in the transition to a green economy and in achieving net-zero emissions by 2050.

Alongside global counterparts, the Italian industry is tackling the challenge of balancing technological and economic advancement with environmental, social and governance responsibility. Sustainability is a pivotal theme, increasingly becoming the guiding principle behind business decisions. It is gaining importance within production processes through the adoption of practices that ensure minimal environmental impact, efficient resource use, waste reduction and, ultimately, a greener and more resilient future. With their expertise and technological prowess, Italian companies are well-equipped to make a significant contribution to sustainable development goals.

In this context, All Energy Australia 2024 will be a significant showcase for exhibiting Italian excellence and an important opportunity to forge new technological and industrial collaborations.

PARTICIPATING ITALIAN COMPANIES

ATB RIVA CALZONI



Via Industriale, 13
25030 Roncadelle (BS), Italy

☎ +39 030 25 811
✉ hydro@atbrc.com
🌐 www.atb.group

ATB Riva Calzoni has been involved for more than a century in the design, manufacturing, installation and commissioning of steel penstocks and hydromechanical equipment for large dams and hydropower projects worldwide.

Due to this extensive experience, ATB Riva Calzoni is recognised as one of the most qualified international companies for the supply, on a turnkey basis, of the following equipment:

- Steel penstocks, linings, bifurcations and manifolds
- Radial gates for spillways and bottom outlets, fixed-wheel gates and sliding high-pressure gates; all equipped with operation and control equipment
- Butterfly valves, energy-dissipating valves and regulating valves
- Trash racks, stoplogs and cranes

In the last 50 years, ATB Riva Calzoni has participated in more than 700 dam and hydropower projects, supplying over 2,000 gates and more than 200 penstocks.



BAXENERGY

A YOKOGAWA COMPANY

BAXENERGY
A Yokogawa Company

Via Sclafani, 40/B
95024 Acireale (CT), Italy

☎ +39 095 1695 7402

✉ giada.torrisi@baxenergy.com

🌐 www.baxenergy.com

BaxEnergy combines extensive domain expertise with the latest intelligent technology to develop Asset Performance Management (APM) and Renewable Energy Management Systems (REMS). The company offers leading multi-vendor, cross-functional IoT software for visualising, analysing and optimising operations in wind, hydro, solar, geothermal and combined cycle power plants. The technology also supports battery storage and monitors the production of green hydrogen and ammonia.

BaxEnergy's technology is utilised in over 2,000 power plants worldwide, interconnecting 120+ GW of renewable energy across 40+ countries. The solutions employ sophisticated AI algorithms, generating savings and recapturing revenues ranging from 1.5% to 4.5% of annual gross production.

The flagship solution, Energy Studio Pro® (ESP), is an end-to-end platform that efficiently visualises, analyses and optimises power plant data and operations in real-time. To further enhance performance, AssetStack® provides a comprehensive, flexible asset management solution that secures data, tracks operations and increases response time.

The latest innovation, Farsight™, uses AI and advanced analytics to generate actionable insights, helping asset managers, utilities, IPPs and investment funds predict and quantify production losses. BaxEnergy also offers solutions for energy trading, power forecasting and industrial battery storage management.



CELME TRANSFORMERS



Via Ca Sordis, 30/32
36054 Montebello Vicentino (VI), Italy

☎ +39 366 56 01 149

✉ sales@celmetransformers.com

🌐 <https://celmetransformers.com>

We, at Celme, have been pioneers in the industry since our inception in 1964. With over 60 years of experience and a robust presence in the market, we have had the privilege of supplying our products to various sectors and applications worldwide. From the United States to Australia, our transformers are installed and trusted globally.

Our expertise primarily lies in the renewable energy sector, including photovoltaic, wind and hydrogen power. These fields are where we shine, providing innovative and reliable solutions to support the global transition to sustainable energy. Additionally, we excel in power conversion, offering advanced technologies to enhance efficiency and performance across numerous applications.

Our reach extends to the oil and gas industry, where our products play a crucial role in ensuring safe and efficient operations. We also cater to the mining sector, providing

robust and reliable equipment to meet the demanding conditions of mining environments.

At Celme, we are committed to continuous improvement and innovation. Our dedicated team of professionals works tirelessly to develop and deliver products that meet the highest standards of quality and performance. We believe in building strong, long-lasting relationships with our clients, offering tailored solutions that precisely meet their needs.

As we look to the future, we remain focused on driving advancements in technology and sustainability. Our vision is to continue leading the way in our industry, providing cutting-edge solutions that empower our clients and contribute to a greener, more sustainable world.



CEMBRE



Via Serenissima, 9
25135 Brescia, Italy

☎ +39 030 36 921
✉ info@cembre.com
🌐 www.cembre.com

CEMBRE is a leading European manufacturer of electrical compression, identification and labelling products. The CEMBRE catalogue offers a wide range of connectors and related installation tools, cable glands, thermal transfer printers and consumables for electrical cabinets and industry.

Extensive know-how, strong R&D activity, and continuous innovation in manufacturing technologies and product specifications enable CEMBRE to respond quickly to the increasingly demanding market expectations for high-quality products that are reliable, durable and safe.

The efficient international sales network and strong focus on customer needs are key strengths of the CEMBRE Group, ensuring a significant competitive advantage in a continuously evolving global market.



ECOPROGETTI



Via dell'Industria e dell'Artigianato, 22D
35010 Carmignano di Brenta (PD), Italy

☎ +39 049 74 44 900
✉ sales@ecoprogetti.com
🌐 www.ecoprogetti.com

Ecoprogetti S.r.l. designs, develops and delivers highly efficient equipment for assembling the latest-generation photovoltaic panels. The product range includes every machine necessary for proper PV panel production as well as turnkey production lines and complete factory solutions, all designed and produced at the Italian headquarters.

Ecoprogetti offers machine installation, certified training, know-how transfer, raw material support and panel certi-

fication support, providing everything clients need to produce high-quality PV modules locally.

With over 25 years of experience in both the production process and machine manufacturing, Ecoprogetti boasts a complete portfolio of machines covering every step of the module production process. It is the only producer in Europe to offer a 'full line' of machinery, each component produced entirely in-house.

Thanks to extensive expertise in automating photovoltaic panel production, Ecoprogetti is one of the leading Italian companies in a rapidly expanding sector. The company offers training courses and comprises a flexible, dynamic team of qualified individuals with years of experience in the photovoltaic sector.



ELPOWER



Via Beggiato, 23
36025 Noventa Vicentina (VI), Italy

☎ +39 389 84 59 477

✉ info@elpower.it

🌐 www.elpower.it

Elpower designs, produces and sells converters for Renewable Energy applications, such as Mini Wind, Mini Hydro, Cogeneration, Energy Storage and power supply for Hydrogen.



KEMA LABS A CESI BRAND

Via Rubattino, 54
20134 Milan, Italy

☎ +39 02 21 251

✉ info@cesi.it

🌐 www.cesi.it

CESI is a world-leading technical consulting and engineering company specialising in technology and innovation for the electric power sector. Through its Division KEMA Labs, CESI is the global leader in independent Testing, Inspection and Certification within the electricity industry.



WESTRAFO



Headquarters: Contrada Ronchi, 3
36054 Montebello Vic.no (VI), Italy

Head Office: Via della Meccanica, 4
36100 Vicenza, Italy

☎ +39 0444 183 1601

✉ info@westrafo.com

🌐 www.westrafo.com

Westrafo S.r.l. is a leading company in the electromechanical industry with a direct presence in Europe, Africa and North America. The product portfolio includes a wide range of solutions for the energy industry, such as power transformers, converter transformers, Medium Voltage Stations and battery storage containers. These products can be customised for various applications, including photovoltaic, wind, hydrogen, energy storage and other industrial uses.

Westrafo leverages its experience, skills and know-how as manufacturers of electrical equipment to benefit customers. Wherever there is a need for integrated, customised energy solutions, Westrafo is ready to provide comprehensive service, from the initial study phase through to final commissioning.



NOTES

16 dotted lines for notes



ROME HEADQUARTERS

ICE - Agenzia per la promozione
all'estero e l'internazionalizzazione
delle imprese italiane
Via Liszt, 21, 00144 Roma

SYDNEY OFFICE

Level 19, 44 Market Street
Sydney 2000 NSW
Tel: +61 2 9299 9954
sydney@ice.it



www.ice.it/en



ITA – Italian Trade Agency – Sydney



@ITASydney