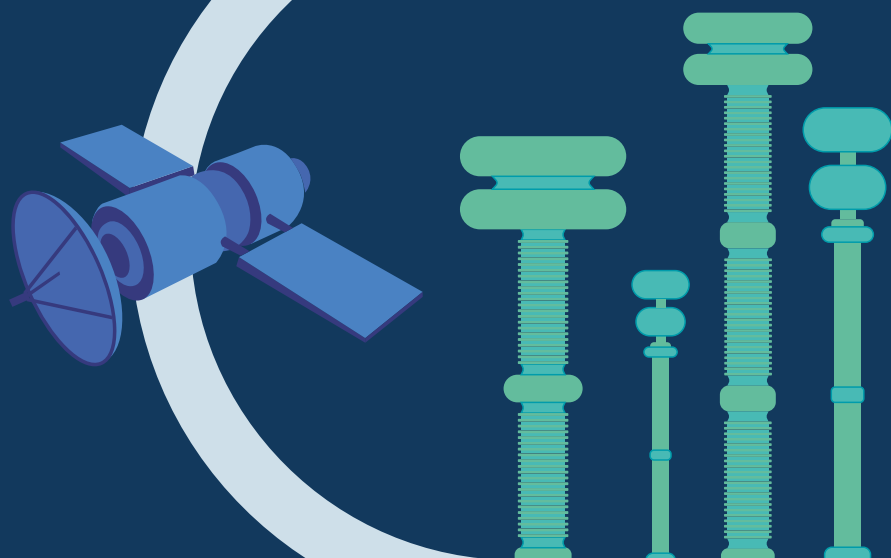


POWER TOMORROW'S ENERGY

With Expertise and innovation,
we drive leading solutions
for your needs





**A trusted and
innovative partner**

CESI

We work hand in hand with our
worldwide clients to shape the
future of electricity through
innovative and ad-hoc solutions.

With a legacy of more than 60 years of experience, CESI operates in 70 countries around the world and supports its global clients in meeting the energy transition challenges. Through its Division KEMA Labs, CESI is the world leader for the independent Testing, Inspection and Certification activities in the electricity industry. CESI also provides civil and environmental engineering services. The company's key global clients include major utilities, Transmission System Operators (TSOs), Distribution System Operators (DSOs), power generation companies (GenCos), system integrators, financial investors and global electromechanical and electronic manufacturers, as well as governments and regulatory authorities. In addition, CESI works in close cooperation with international financial institutions. CESI is a fully independent joint-stock company headquartered in Milan and with facilities in Arnhem, Berlin, Prague, Mannheim, Dubai, Rio de Janeiro, Santiago de Chile, Knoxville (USA) and Chalfont (USA).

**CONSULTING
SERVICES**

**TESTING &
CERTIFICATION**

**SPACE
SOLAR CELLS**

Consulting, Solutions & Services

Testing & Certification

Space Solar Cells

CESI Expertise

Our expertise reaches almost every corner of the energy sector

● Products Expertise

Cables and Accessories
High and Medium Voltage
Switchgear Assemblies
and Switching Devices
Low Voltage Switchgear
Assemblies and Switching Devices
Insulator and bushings
Transformers
Surge Arresters
Power Electronics
Measuring relays,
and protection equipment
E-mobility
Battery Storage systems

● Industries Expertise

Energy
Transmission & Distribution
Renewables & Green Hydrogen
Storage & E-mobility
Conventional PP, Industrial & Oil&gas

Water & Infrastructure
Water Infrastructure
Civil Infrastructure
Natural hazards

Environment
Air
Water
Waste & Wastewater
Soil & Groundwater
Physical agents

CESI Consulting

Inspired with innovation

Deliver practical solutions that help to interpret and shape a world that is becoming more and more interconnected and complex.

Our expertise covers almost every aspect of the Energy and Infrastructure sectors:

- Power transmission and distribution: HVDC/HVAC infrastructure, distribution infrastructure and smart grids
- Renewable energy and storage: hydropower, solar and wind generation and storage systems
- Conventional power generation: open and combined cycle gas turbine, coal-and oil-fired thermal power plants, industrial facilities
- Infrastructure: roads, bridges and cultural heritage

With more than 1,000 consultants worldwide, we provide technical assistance to utility, energy & infrastructure investors, governments, regulators and financial institutions in more than 50 countries throughout Europe, the Middle East, Asia, Africa, The United States and Latin America. Our services cover the entire life cycle of infrastructure projects, from early stage feasibility studies to the complete support during construction, commissioning and operation.

Application Fields



- **Energy**
Advisory services
Engineering Consulting
Operation Optimization

- **Water & Infrastructure**
Civil Engineering
Monitoring
Testing & Inspection

- **Environment**
Studies & Permitting
Monitoring & Diagnostic
Permitting

KEMA Labs

CESI Group

KEMA LABS is CESI's world-leading testing, inspections and certification division.

With sites across the globe, we offer a combination of tradition and experience allied to state-of-the-art testing equipment. This enables us to test all kinds of grid equipment from low- to ultra-high-voltage so that our clients can meet today's increasingly demanding performance and safety requirements. Utilities have the challenging task of ensuring that their grids operate reliably, while product manufacturers need to ensure their equipment performs to the highest standards. KEMA Labs offers vast expertise, impartiality and a long history of technical experience gained through our testing activities and participation in technical committees.

It makes us the ideal partner and the benchmark for testing in your sector. KEMA Labs has test locations around the world and has been testing products for more than 100 years. We have the strongest facilities ever built and we test more than 200,000 products every year. It is no surprise we are the market leader. As the energy business undergoes a deep transformation towards greener, smarter grids, KEMA Labs is focused on the new technologies that are emerging. We play a crucial role supporting our customers during the R&D phase at our state-of-the-art facilities, including our Flex Power Grid Laboratory.

Services and Labs



- **Testing Labs**
- **Product inspections, certification & training**
- **On-site Testing**

CESI Space

Inspired with innovation

More than 30 years of experience in the research, development and production of high efficiency space solar cells for civil applications.

Our standard triple junction space cells (InGaP/InGaAs/Ge) are state of the art with a typical efficiency of 30%. They are qualified for both Low Earth Orbit (LEO) and Geostationary Orbit (GEO) satellites according to standard ECSS E ST20-08C. We continuously seek to make our cells more efficient and our research suggests we will be able to produce four junction cells with space efficiencies beyond 35%. We manufacture space solar cells at our facilities in Milan using our proprietary technology. CESI has manufactured more than 200,000 solar cells that have powered more than 70 civil satellites for clients from

over 25 different countries. CESI has developed close and lasting links with international space agencies and players around the world. Our investments in research in this field have been supported by funding from the Italian National Space Agency (ASI) and the European Space Agency (ESA). CESI is well regarded for its expertise in the development and manufacturing of advanced and proven space solar cells within the ESA European space program frames. Additionally CESI has contributed to many interplanetary missions (e.g. to Mercury, Mars and Jupiter).

Space product



- **Standard triple junction space cells**
With a typical efficiency of 30%
- **Low Cost Triple junction solar cells**
Fully qualified for LEO and GEO missions
- **Thin Triple junction solar cells**
Fully qualified for LEO missions



Our Offices

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