DE LORENZO



Didactic Laboratories for **Renewable energies**

KEY NUMBERS

16 Products
189 Practical experiences
170 h Theoretical lessons
85 h Practical lessons

30 STUDENTS

WHO IS FOR

- Electronics Engineering
- Renewable Energy Engineering
- Energy Engineering
- Energy Engineering and Sustainable Development
- Engineering in Environmental Technology
- Engineering in Natural Resources Management
- Power Systems Engineering
- Technician in Renewable Energies Solar Energy Area
- Technician in Alternative Energy Sources
- Electrical Technician

Didactic solutions for the future of Sustainable Energy

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LABORATORY [DL RENLAB]

RENEWABLE ENERGIES

Renewable energies are derived from infinite natural sources such as the sun, wind, water, and biomass, which are continually replenished, making them less harmful alternative to fossil fuels. **De Lorenzo provides a wide range of educational systems** designed for technicians, engineers, and renewable energy specialists, helping them develop the skills needed to design and implement sustainable energy projects. By assessing natural resources, students are empowered to create innovative solutions for efficient energy use and sustainability.

Our systems are categorized by energy source and application (electricity or heat). **Our equipment offers hands-on learning in key areas such as solar, wind, and fuel cell technologies, while also developing expertise in energy efficiency, micro-grids, and smart grid integration.**

- **SMART ELECTRICAL SYSTEM**
- **PHOTOVOLTAIC SYSTEM**
- **HYBRID SYSTEM ***
- **SOLAR THERMAL SYSTEM**
- **FUEL CELL**
- **WIND SYSTEM**

*It combines the topics covered in the Wind system and Photovoltaic system.



LABORATORY [DL RENLAB]

RENEWABLE ENERGIES

SMART ELECTRICAL SYSTEM



DL SGWD2.0-W



DL SPH-33

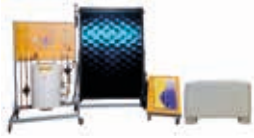


DL WPP



DL SPP

SOLAR THERMAL SYSTEM



DL THERMO-A12



DL GEOTHERM

PHOTOVOLTAIC SYSTEM



DL SOLAR-AT



DL SOLAR-PV

FUEL CELL



DL HYDROGEN-B



DL HYGEN

HYBRID SYSTEM *



DL SUNWIND-A2



DL SUNWIND-24V3

WIND SYSTEM



DL VAWT



DL GMLL



DL WIND-A2



DL WIND-B

*It combines the topics covered in the Wind system and Photovoltaic system.

LABORATORY [DL RENLAB]

RENEWABLE ENERGIES

30 STUDENTS

STATION	CODES	EXERCIZE	DESCRIPTION	Q.TY	COMPUTER REQUIRED
PROFESSOR STATION	-	-	PROFESSOR DESK	1	
	-	-	PROFESSOR CHAIR	1	
	-	-	PROFESSOR COMPUTER	1	
	-	-	PRINTER	1	
	-	-	INTERACTIVE WHITEBOARD	1	✓
WIND SYSTEMS	DL WIND-A2	17	ADVANCED WIND ENERGY TRAINER	1	✓
	DL WIND-B_M230	6	WIND POWER TRAINER WITH WIND TUNNEL	1	✓
	DL VAWT	2	SAVONIUS TURBINE	1	
	DL GMLL	2	GIROMILL TURBINE	1	
	DL 1001-1-08	-	BASIC BENCH 2 X 1 X 0.8 MT	1	
PHOTOVOLTAIC SYSTEMS	DL SOLAR-AT	15	PHOTOVOLTAIC SOLAR ENERGY ADVANCED TRAINER	1	✓
	DL SOLAR-PV	8	PHOTOVOLTAIC SOLAR PANEL MEASUREMENT TRAINER	1	✓
	DL 1001-1-08		BASIC BENCH 2 X 1 X 0.8 MT	2	
HYBRID SYSTEMS	DL SUNWIND-A2	17	ADVANCED WIND ENERGY TRAINER	1	✓
	DL SUNWIND-24V3	21	HYBRID SOLAR / WIND ENERGY TRAINER	1	✓
	DL 1001-1-08	-	BASIC BENCH 2 X 1 X 0.8 MT	1	
FUEL CELL	DL HYDROGEN-B	5	FUEL CELLS SYSTEMS TRAINER	1	
	DL HYGEN	-	HYDROGEN GENERATOR	1	
	DL 1001-1-08	-	BASIC BENCH 2 X 1 X 0.8 MT	1	
SOLAR THERMAL SYSTEM	DL THERMO-A12_M230	22	SOLAR THERMAL ENERGY TRAINER	2	
	DL GEOTHERM	15	GEOTHERMAL ENERGY TRAINER	1	✓
SMART ELECTRICAL SYSTEM	DL SPH-33	5	PELTON TURBINE WITH DC GENERATOR	1	✓
	DL WPP	8	WIND POWER PLANTS	1	
	DL SPP	11	SOLAR POWER PLANT	1	
	DL SGWD2.0-W	35	SMART GRID WITH WIND MICROGENERATION	1	✓
	DL 1001-1-08	-	BASIC BENCH 2 X 1 X 0.8 MT	1	
FURNITURE & COMPUTERS	-	-	STUDENT CHAIR	30	
	-	-	STUDENT COMPUTER	7	
	-	-	CABINET	6	

The laboratory proposal can be adjusted to fit clients needs

MISSION

Educational Innovation for a Sustainable Future

Our mission is to provide cutting-edge educational solutions that equip new generations of technicians and engineers in the renewable energy sector. In a world facing increasingly urgent environmental challenges, De Lorenzo is committed to creating innovative educational laboratories that allow students to gain both practical and theoretical skills in sustainable energy.

By integrating **technology**, **pedagogy**, and **hands-on experience**, our goal is to support the development of cleaner, more efficient energy solutions, contributing to the training of professionals capable of leading the transition toward a sustainable future.

Our VALUES

- PEOPLE
- INNOVATION
- AGE
- TEAMWORK
- QUALITY
- HONESTY AND INTEGRITY
- FLEXIBILITY
- INVOLVEMENTS



LABORATORIES

Shaping the Future, Fueling Innovation

De Lorenzo is a comprehensive provider of **educational services**. Its offerings include laboratories designed to facilitate the transfer of technical knowledge and essential soft skills, such as:

PROBLEM SOLVING **CRITICAL THINKING** **TEAMWORK**

For each discipline, De Lorenzo provides fully **equipped laboratories** with high-quality tools and materials, essential for achieving educational goals.

Tailored Solutions
for Effective Learning

Our setup provides a turnkey, **flexible, and fully customizable solution** to meet any educational need. Whether for small classes or large groups, our labs **can be scaled with the right number of products to ensure an optimal and engaging learning experience.**



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STEPS
for a succesful project



01

Proposal
of the necessary equipment to furnish the laboratory*.

02

Listening
to the client's needs. Definition of the teaching objectives, and analysing the socioeconomic context of the region.

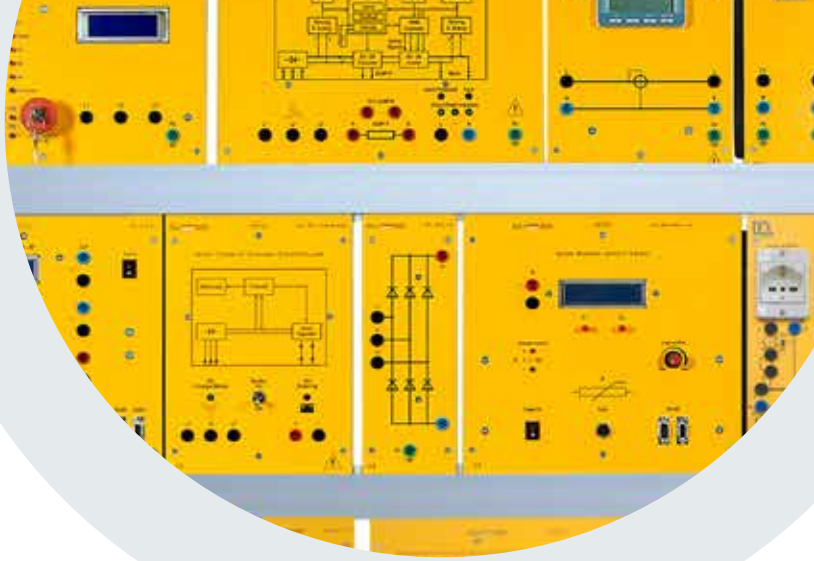
03

Analysis
of the available teaching spaces, pre-existing resources and technical expertise.

04

Definition
of the relevant laboratories to reach the desired teaching objectives.



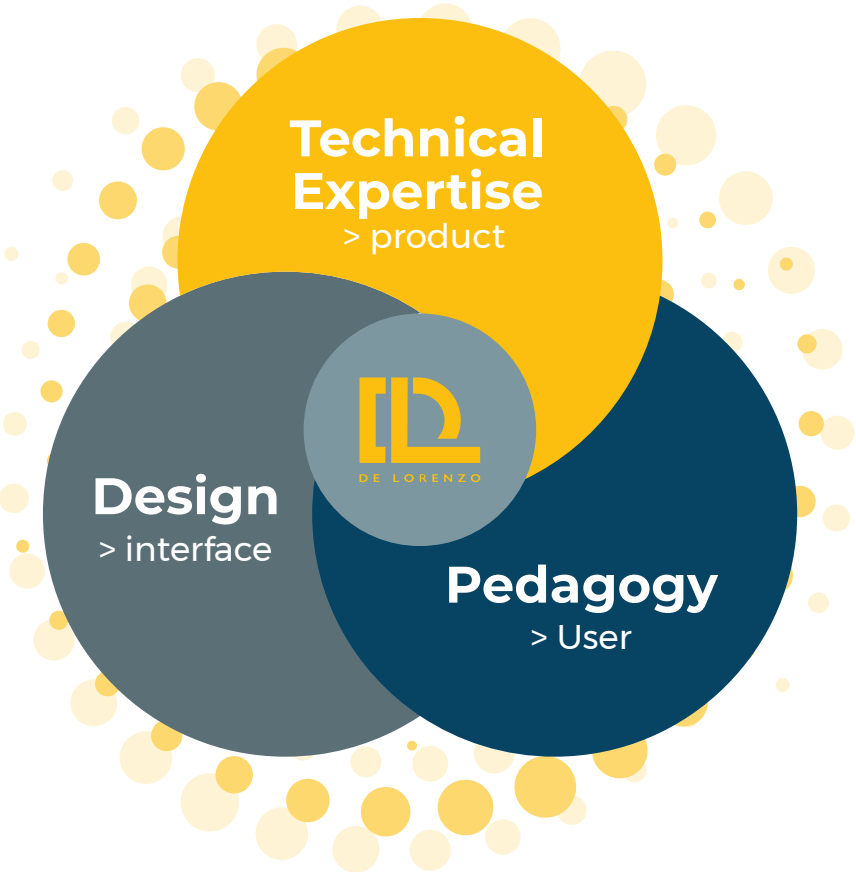


OUR PRODUCTS

Technology that teaches, innovation that inspires

Creating **turnkey educational labs** that boost student engagement and simplify teaching is an integral part of De Lorenzo's DNA. We are committed to the continuous improvement of our products to facilitate both learning and teaching, and to implementing cutting-edge techniques for effective knowledge transfer.

De Lorenzo's products embody a synthesis of **TECHNICAL, PEDAGOGICAL, and DESIGN** expertise. To effectively facilitate knowledge transfer, it is essential to consider all of these aspects. **In the design of educational labs, the elements of interaction between users and product (Design) and between users and subject matter (Pedagogy) are just as crucial as technical knowledge.**





1

TECHNICAL EXPERTISE

Engineering Precision, Boundless Learning

Our products are crafted by passionate technicians and engineers who work to make every essential technology accessible for education in today's society.

De Lorenzo products embody both the **substance of the subjects they teach** and **the tools to teach them**. Technology that demonstrates and teaches itself.

The designers at De Lorenzo understand the challenges faced by students and educators, striving to remove barriers in learning and teaching. This commitment ensures that our products make complex subjects easier to access and understand.



2 DESIGN

Functionality that inspires, aesthetics that engage

The products that compose the De Lorenzo laboratories are educational. Therefore, the interaction between the user and the product is central. For this reason, De Lorenzo products are created in Italy, designed to facilitate the user experience and enhanced by **didactic manuals and software that simplify teachers' work and encourage student learning.**

Colours, international symbology, a clear interface and the ergonomics of the components are just some of the features considered during the design process.

CHARACTERISTICS

- **INSTINCTIVELY COMPREHENSIBLE** Synoptic tables, images and international coding make it easy to find your way around
- **EASY TO USE** Self-explaining
- **FUNCTIONAL** Intuitive: designed to simplify learning
- **RESISTANT** Manufactured in Italy, with high quality raw materials
- **MODULAR** Replaceable, interchangeable, easily repairable
- **COHERENT** Appearance, mode of use, maintenance
- **WITH RELEVANT AESTHETICS** Well-finished aesthetics facilitates attention maintenance
- **SAFE** Product and line safety is guaranteed



3 PEDAGOGY

Maximising the potential of every learner

De Lorenzo develops teaching equipment that integrates fundamental pedagogical principles such as **simulation of real challenges, repetition, imitation and playfulness**. The laboratories support teachers in creating captivating lessons, keeping students' attention high.

The laboratories facilitate the application of these principles, but do not replace the teachers' skills. For this reason, De Lorenzo **trains teachers through its Academy**, enabling them to exploit the products' potential to the fullest, even **creating new experiments** in addition to those in the manuals. In fact, De Lorenzo's products are open and allow the exercises to be extended.

FUNDAMENTAL PEDAGOGICAL PRINCIPLES	
Experience-based learning	✓
Integration of theory and practice	✓
Immediate feedback	✓
Didactic support	✓
Continuous evaluation	✓
Autonomous learning	✓
Collaboration and teamwork	✓
Integration and accessibility	✓
Reflectiveness and critical thinking	✓





4 ACADEMY

From design to autonomy: your educational partner

An environment dedicated to the choice, design and use of teaching laboratories, where theory meets practice, offering students a complete educational experience.

A team of professionals who solve the problems of consultants and teachers daily will provide you with a 360° view of the potential of the products to create high-level teaching, making you autonomous in their exploitation.

A team that has gained experience and skills over the years in national and international design, production, and consultancy will explain to you how to choose laboratories, optimise resources, and didactically use the product for the transfer of technical knowledge.

KEY NUMBERS

- 106 hours of training per year
- 16 courses per year
- 5 Trainers in HQ
- 12 Trainers on-site
- 70 countries of origin of trainees
- Courses available in 5 languages

WHO IT IS ADDRESSED TO

- Professors
- Educational consultants
- Resellers
- HR development managers
- Ministers

Experience the
Future of Education.
Let's Talk About
Your Project!

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