

A night cityscape with a large green 'INNOVATION' text overlay. The city lights are visible in the background, and the text is prominently displayed in the foreground.

INNOVATION

Automation Day Catania



Our purpose is to **empower all to make the most of our energy and resources** bridging progress and sustainability for all.

At Schneider, we call this **Life Is On**

Strategic Positioning

Energy Production



solar



Wind power



Fossil Fuels



water



nuclear



Making the energy

Secure

Reliable

Efficient



Connected Solutions

Use of Energy



industry

72%

consumo mondiale



building



infrastructure



residential



data center

2021

29 Mld €

Fatturato

5%

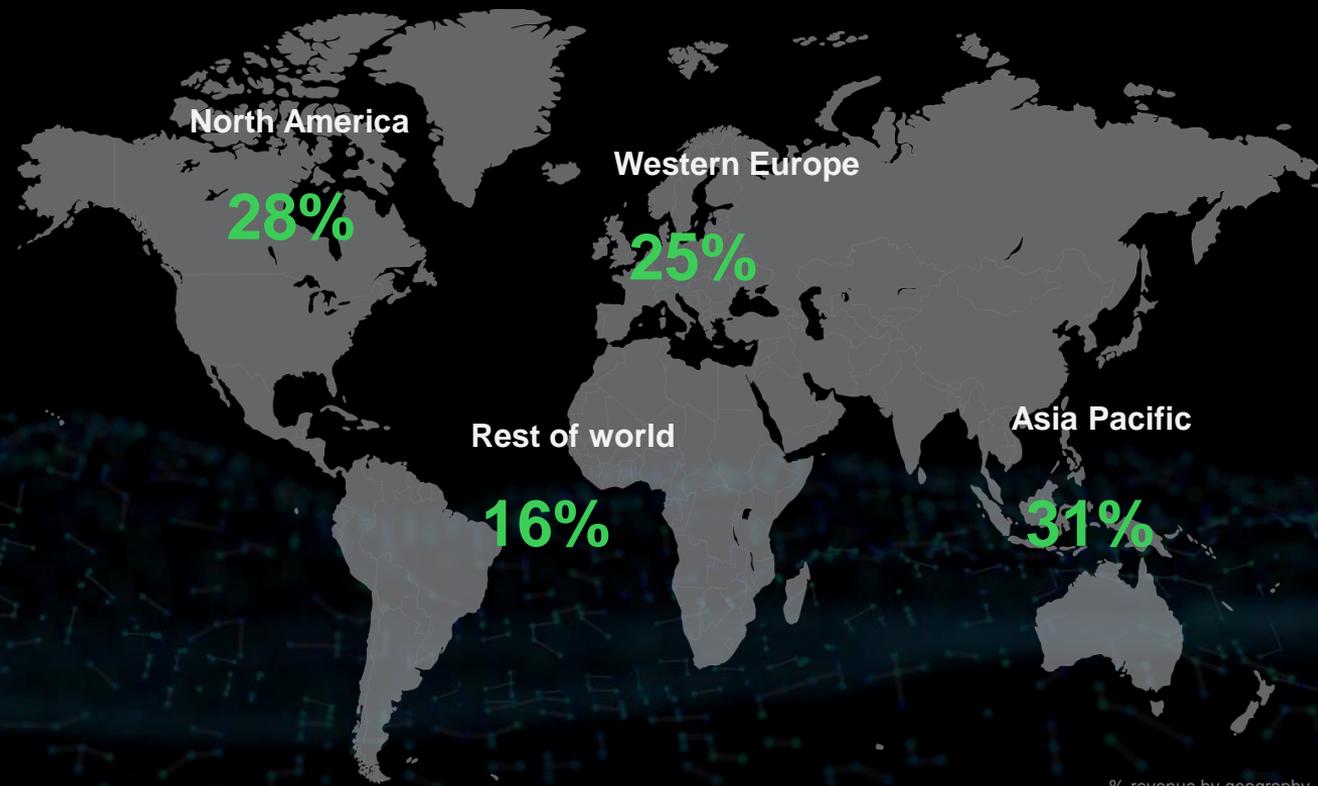
Fatturato per R&D

128.000+

Employees

100+

Paesi



% revenue by geography

23% Industrial Automation

77% Energy Management

In Italy: an important historical presence

2022

- **8** Commercial site
-  **5** Industrial site
-  **4** Innovation Hub
-  **1** Client Assistant center
-  **1** Integrated Logistic Center



+3.000
Employees



Most Sustainable Corporations in the World

GLOBAL100

The world's most sustainable company is ready to go further, faster

empower all to make the most of our energy and resources



HVAC&R – Heating Ventilation Air Conditioning and Refrigeration

It represents the family of industrial, domestic and commercial equipment used for cooling, heating, recycling air, remove internal airborne contaminants and various cleaning chemicals.



28-38%

Energy Consumption



40%

HVAC&R Electrical Load



24%

EU Final Energy Consumption



12%

Final Energy Consumption

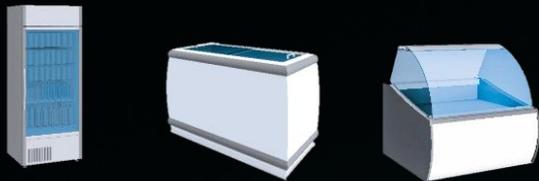


28%

Energy Consumption

Solutions for refrigeration

Equipment Manufacturers (OEM)



Wholesalers and Installers



Retail Stores



Monitoring & maintenance



TelevisGo
TelevisAir

EWNnext



Coldface Series



HACCP Module



TelevisIn/Out, Adapters,
EWSense



LKD solution



RTX DOMINO ZERO, KDX 5000, PXV



FREE range



EWCM 9000 DOMINO / 400 D PRO



D Controls



EWPA, EWHS, NTC, NSD



Applications: Bottle coolers, Refrigerators & Freezers, Drink dispenser, Display cabinets, Blast chillers. Compressor Rack, Cold Room, Retail Store

Solutions for HVAC manufacturers



EcoStruxure
Machine Advisor



EcoStruxure
Secure Connect Advisor

Modicon M171
Programmable controller
for compact HVAC machines



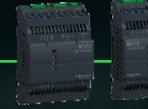
Modicon M172
Programmable controller
for large HVAC machines



TM172SI
Edge device to connect
HVAC machines to the
cloud



EVEVD
EEV driver



Air Handling Units

**Fan Coil Units
& ventilation**

Boilers

Heat pumps

Chillers

Rooftops

Packaged



Applications: Data center, schools, offices, hospitals, residential, commercial, industry (process chillers)

SUGGESTED STAGES & MSc FINAL PROJECTS BY TOPICS

Life Is On

Schneider
Electric



- AHU control algorithm for air recovery
 - Good knowledges of IEC61131-3 programming languages requested, especially ST and FBD
- TM172Six Webserver templates and widgets for HVAC
 - Very good programming experience in Javascript ES6+, CSS, HTML
- Testing time reduction for Linux based Edge systems
 - Study and improve closed loop control to reduce the testing time in Production line for Linux based systems
 - Good knowledges of Linux required
- Implementation of a Neural network in Hardware or Cloud
 - Implement a neural network aimed to recognize issues on HVAC systems or to manage Defrost functionalities in Refrigeration
 - Create dataset starting from datalogs collected in the edge
- Advanced Techniques for automated testing
 - Automate software tests, i.e. after a software release there is the need to test all the bugs or problems occurred in a previous release, the aim is to reduce and optimize the testing time for our software solutions

METHODOLOGY

- **Ecostruxure Machine Expert - HVAC (programming software for Modicon TM17x family)**
- **IEC 61131-3**
- **Javascript, CSS, HTML**

Schneider
Electric

SEND YOUR CV BY EMAIL TO:

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ASK INFORMATIONS TO:

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SUGGESTED STAGES & MSc FINAL PROJECTS BY

Life Is On

Schneider
Electric



■ Digital Twin

- Create the virtualization of a production line to be used as a demo for the promotion of Schneider's VR solution.
- The plant can be proposed by the University; alternatively, it could be realized the virtualization of one or more lines in the plants of Casavatore (NA), Stezzano (BG) or Pieve di Cento (BO) Schneider
- AVEVA XR Studio or SCHNEIDER MACHINE EXPERT TWIN

■ Control Room OEM: Control Voice

- Realize voice control functionality to manage operations within a Control Room

The Schneider Electric logo, consisting of the word 'Schneider' in green and 'Electric' in a smaller green font below it, with a green stylized 'E' symbol to the left. The logo is enclosed in a white circle with a red border.

Schneider
Electric

SEND YOUR CV BY EMAIL TO:

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After Graduation

- Extracurricular Internship
- Academy
- Opportunities for specific roles



Before Graduation

- Thesis /Visit at Plants/Innovation Hub
- Curricular Internship
- International Project – Schneider Go Green

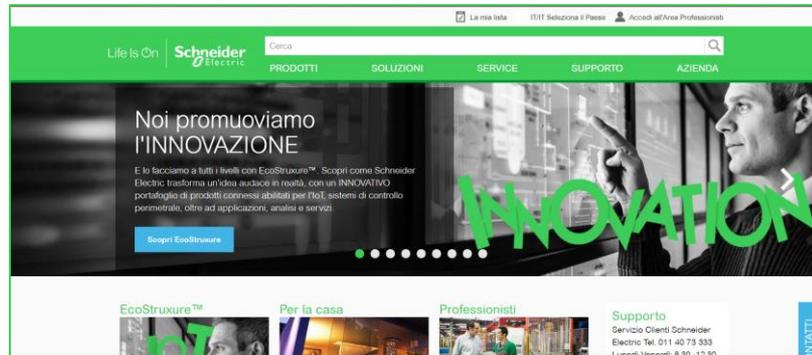


Come restare in contatto con Schneider Electric



Schneider LinkedIn Page

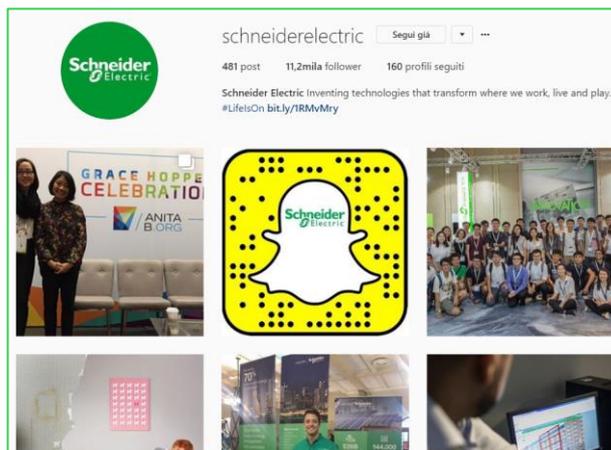
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www.schneider-electric.it



Schneider Electric



recruiting @se.com



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