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**140 years of
Edison**
Looking ahead
towards 2030-2040

4th October 2023



140 years of Edison

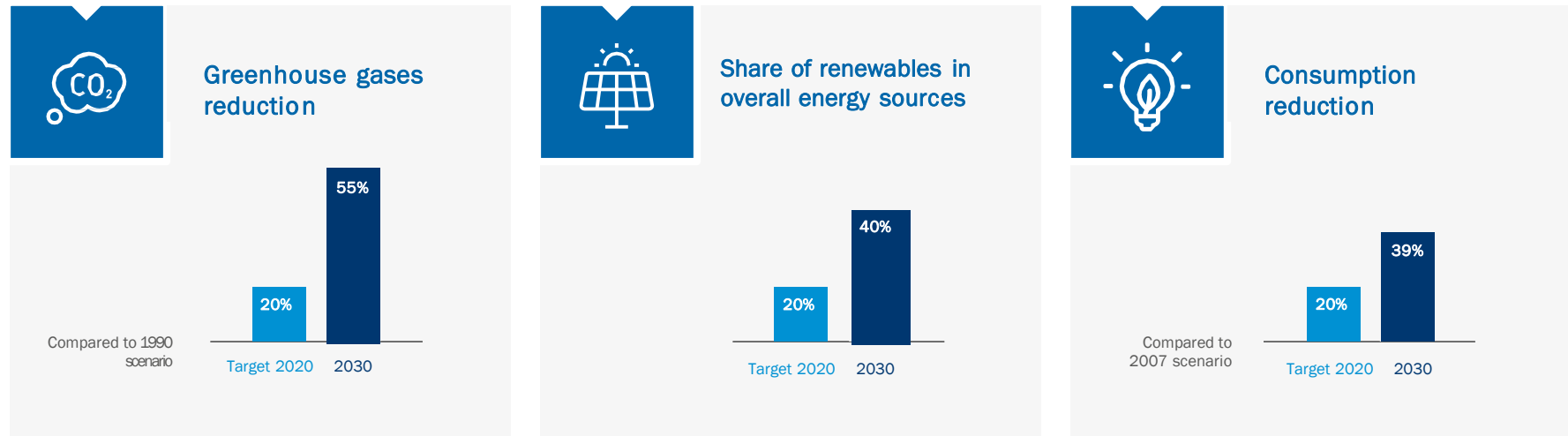
Our targets for 2030 and ambitions for 2040

Nicola Monti
Edison, CEO

4th October 2023

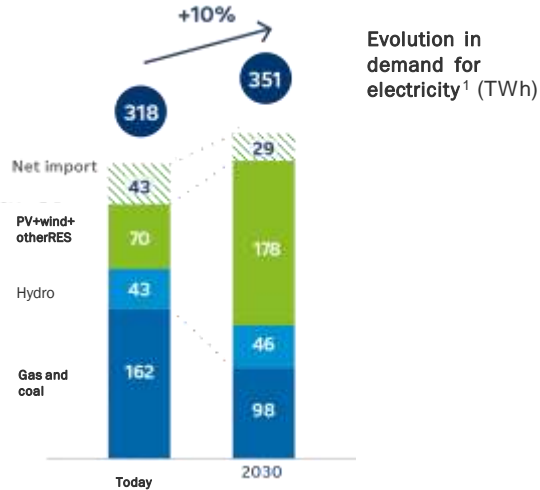
Energy transition: a unique opportunity to transform Italy

PNIEC (National Integrated Plan for Energy and Climate) targets for 2030



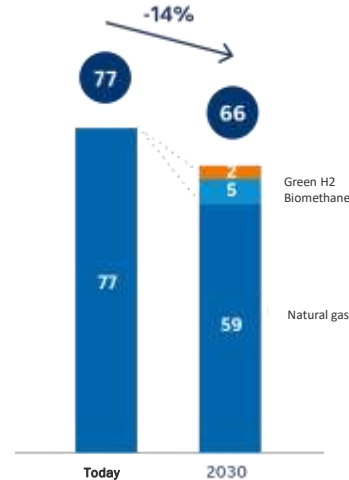
Expected evolution of the Italian market

Increasing demand for electricity and green power generation



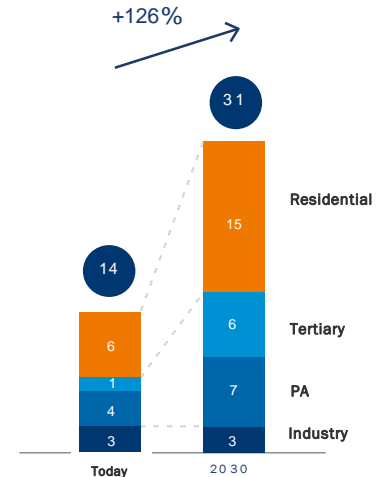
Efforts towards decarbonisation and electrification (E-mobility, H₂)

Italy's gas mix and gas demand evolution² (Bcm)



Great need for gas import, in addition to green gas

Investments in energy efficiency (Bn€/year)



Growing focus on buildings and smart cities

(1) PNIEC 2023 (2) Terna-Snam 2022 scenario, based on targets FF55

Edison: our strengths

Leader in **energy transition** and **security**

A diversified and unique-on-the-market **industrial portfolio** with activities throughout **Italy**

Investments on **national infrastructure** thanks to a **sound financial structure** and excellent expertise

We foster **innovation in the country** by **anticipating market trends** and translating them into business

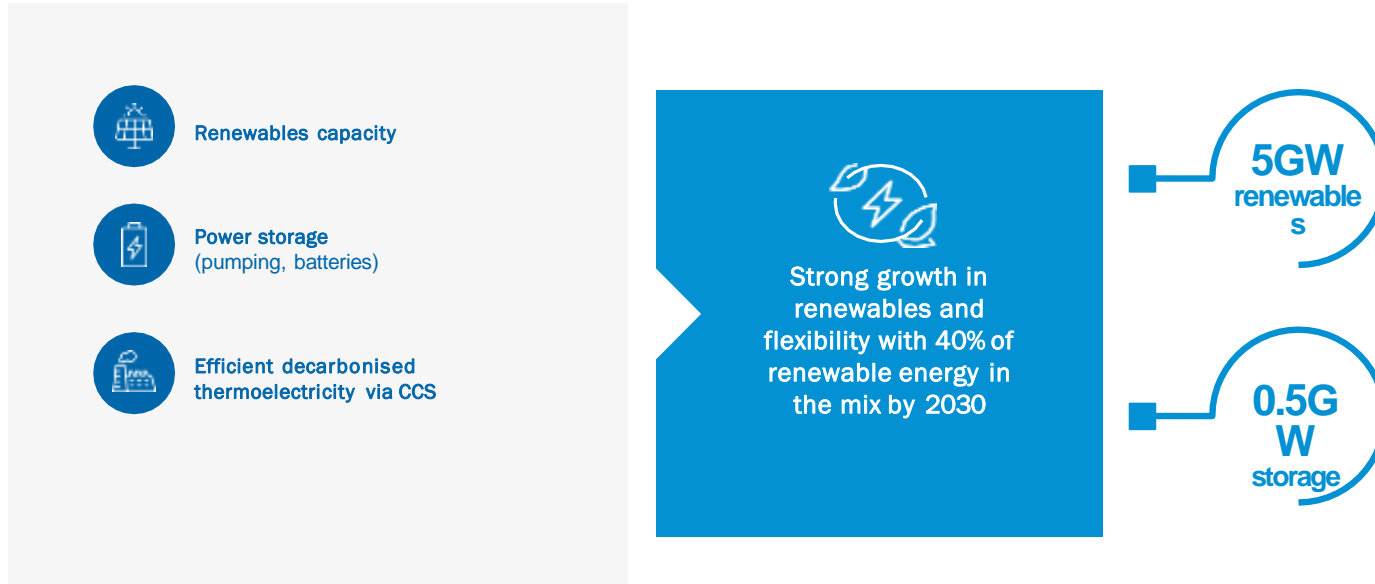
We act throughout the **energy supply chain**, from generation to **commodity** and **value-added services** delivery

Edison: the key pillars of our development



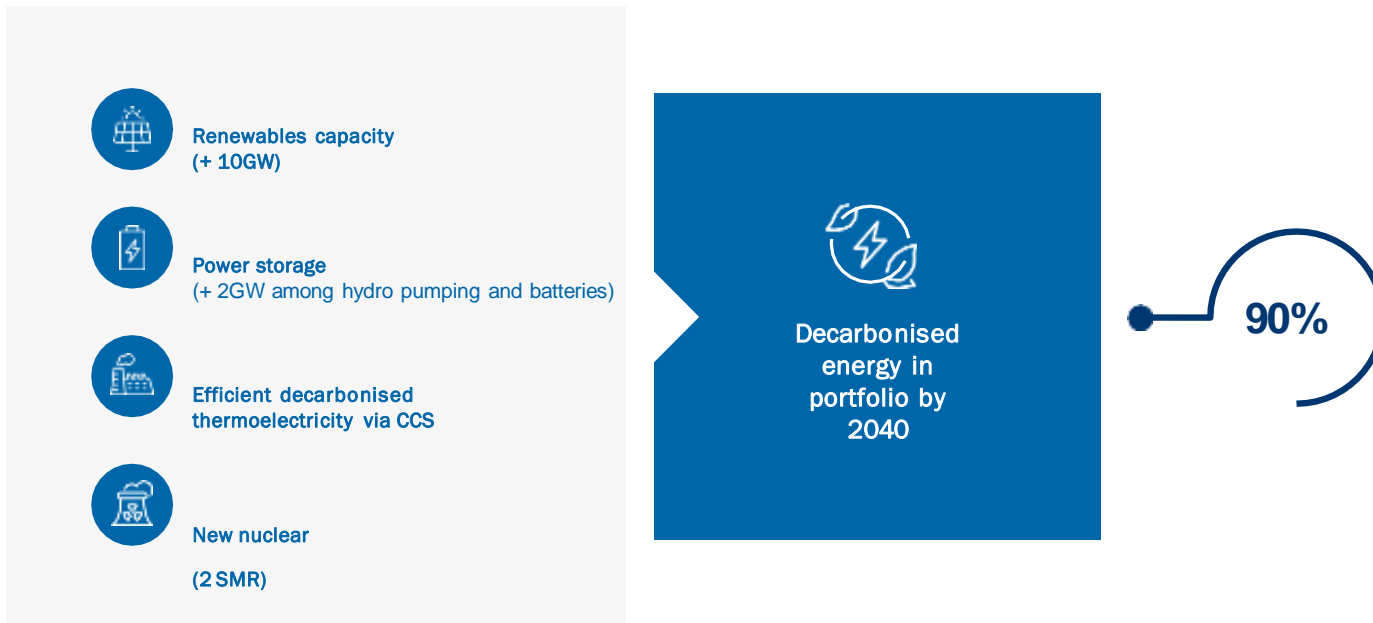
Generation & Flexibility - 2030

Technological neutrality for energy transition



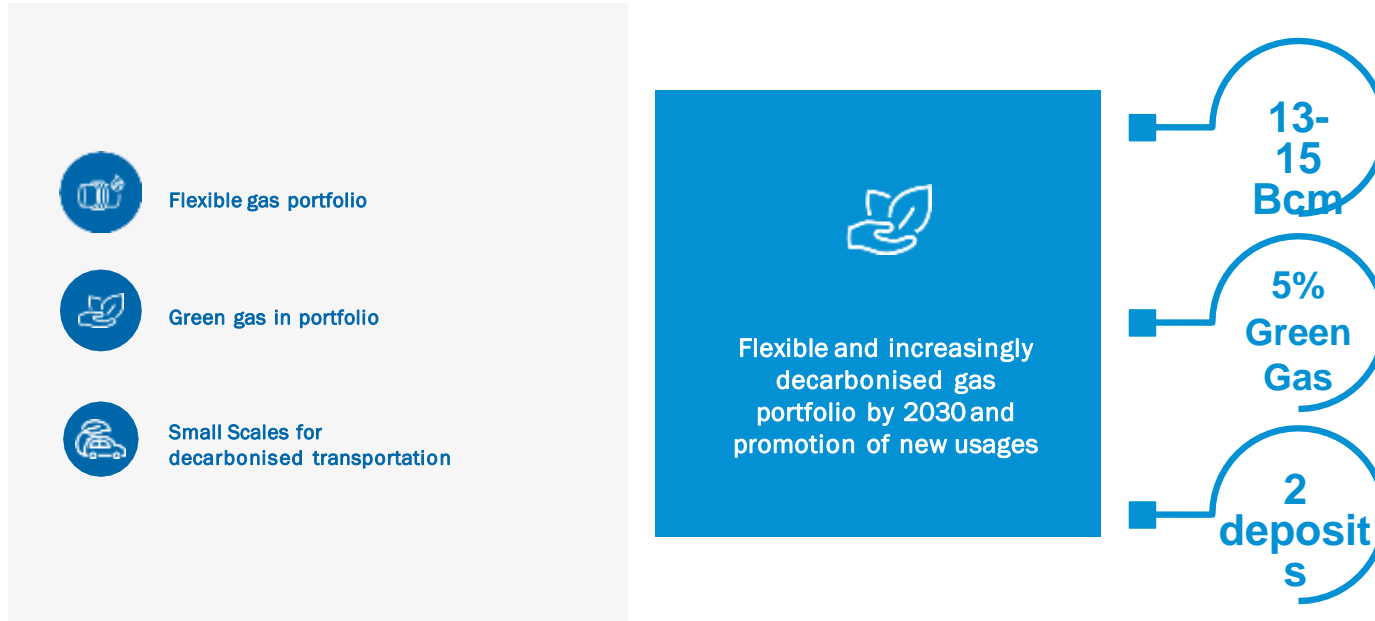
Generation & Flexibility – 2040 ambition

Technological neutrality for energy transition



Gas & Energy transition - 2030

Energy security for the country



Gas & Energy transition – 2040 ambition

Energy security for the country



Flexible gas portfolio



Green gas in portfolio



Small Scales for
decarbonised transportation



Gas market share
by 2040



Green gas
in portfolio by 2040

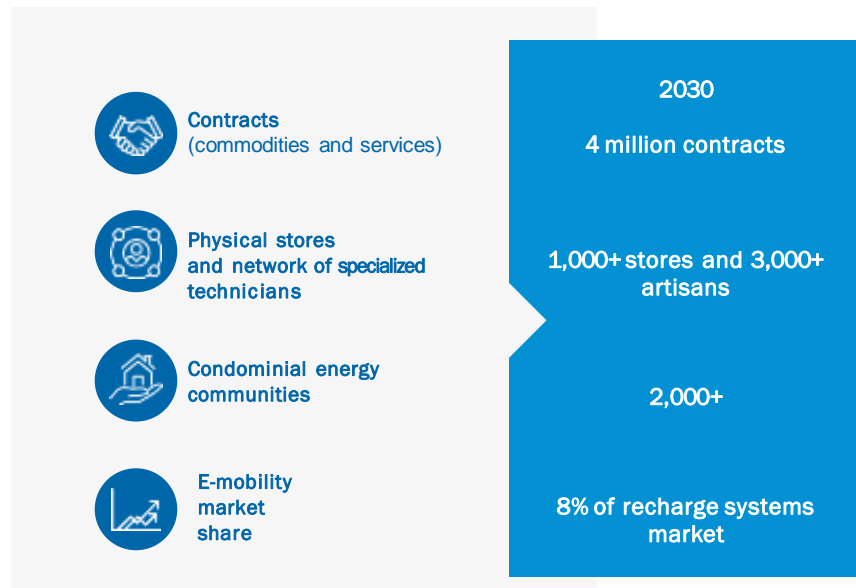
20%

15%

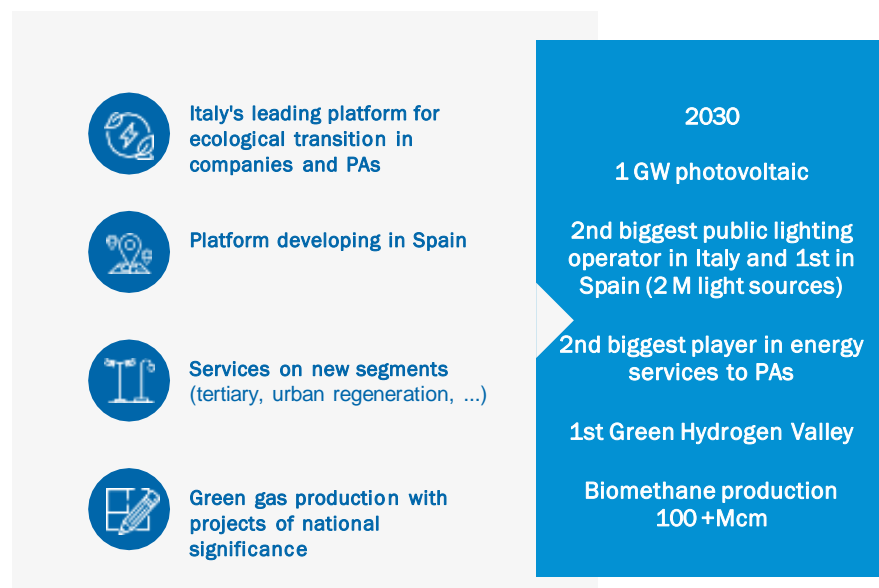
Customers & Services – 2030

Close to customer and territories

Edison Energia



Edison Next



Edison: our way ahead

The energy of the future: a choice to be made today

2030

Doubling Edison's size by investing more than **10 billion euros** between 2023 and 2030 throughout Italy. **We support growth** with new hires, focusing on youth and local areas

2040

Maintaining growth rate by consolidating our role as a leading player in energy transition continuously bringing innovation to the country



RENEWABLES AND FLEXIBILITY

- Doubling renewables by 2030 (5GW) and constant growth towards 2040
- Decarbonisation of thermoelectricity (CO₂ capture and new nuclear)
- 40% decarbonised energy by 2030 and over 90% by 2040



GAS AND ENERGY SECURITY

- Maintaining a 20% share of the gas market in Italy
- Flexible, diversified balanced gas contract portfolio between pipe and LNG
- Progressive portfolio decarbonisation with green gas from 5% by 2030 to 15% by 2040



CUSTOMERS AND SERVICES

- Doubling of contracts by 2030 (4M) and constant growth by 2040
- Electrification and decarbonisation for final customers and territories
- Market leader by 2040: second in commodity and energy services supply



140 years of Edison

Technologies for Energy Transition

Lorenzo Mottura
EVP Strategy, Edison

4th October
2023

Technologies for Energy Transition

Energy communities

Condominial and distributed



Offshore wind power

Large floating farms



CO₂ capture

Decarbonising new high-efficiency gas power stations



Green Gas

Hydrogen and biomethane



Electricity storage

Pumped, batteries and innovative solutions



Nuclear

Small Modular Reactors for energy production and heat supply



New Nuclear available from 2030 - SMR

Reduced dimensions



~ 300 MWe
2 independent
reactors

Small
in size

Increased competitiveness



Serial & modular
production

Shorter
construction
times



Simplification &
safety

Passive safety
and
acceptability



Limited intensity
of capital

Higher
affordability

New market opportunities



Minor impact
and FIT
network

Repowering
existing power
plants



Flexible
applications

Electricity,
heat,
hydrogen, ...



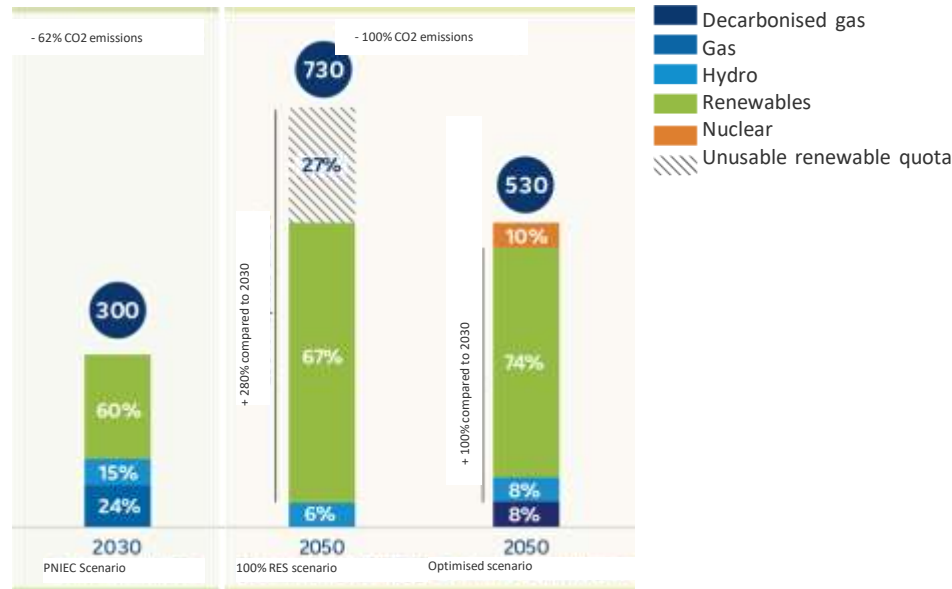
Hybrid
systems

Integration
with RES

Source "Advances in Small Modular Reactor Technology Developments" IAEA Advanced Reactors Information System (ARIS) 2020 Edition

New nuclear and decarbonised gas for carbon neutrality by 2050

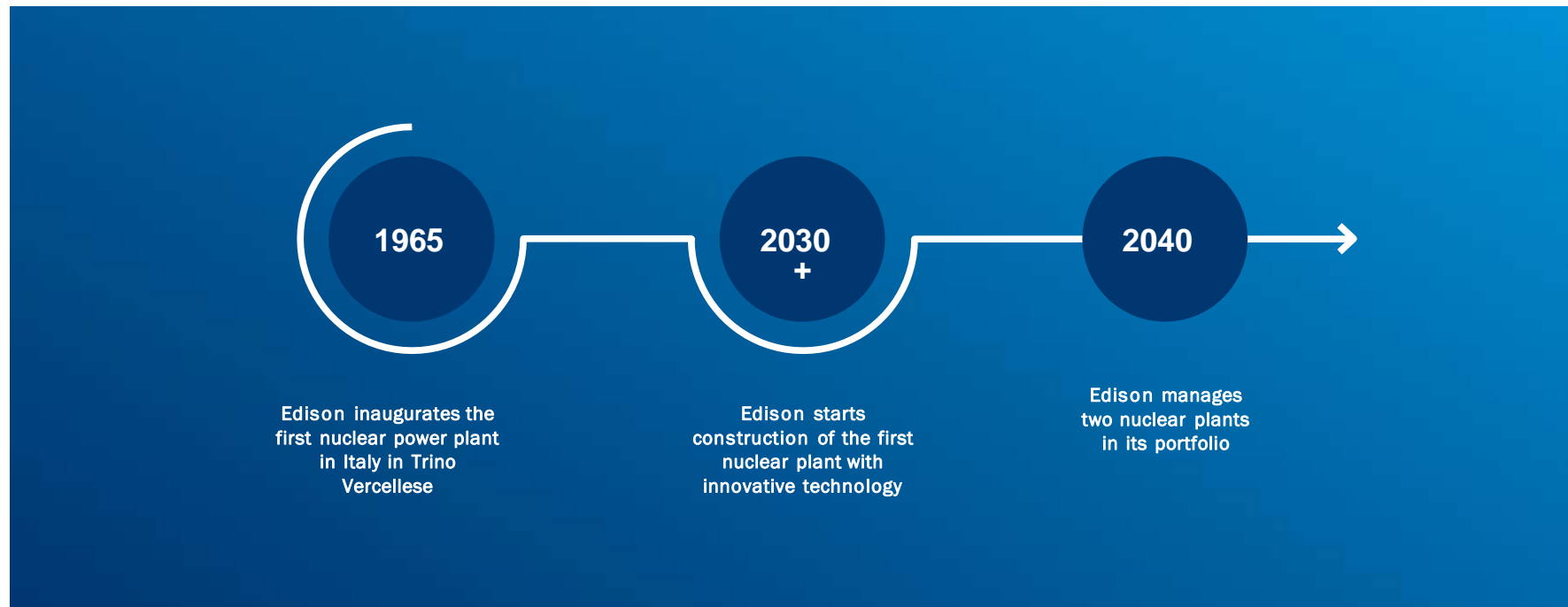
Italy's energy mix evolution ¹(TWh)



1) PNIEC Scenario June 2023 in 2030, Edison Simulated scenario in 2050 2) CCS = Carbon Capture and Storage

- New nuclear , together with renewables, contributes to achieving carbon neutrality by 2050
- The Optimised Scenario with renewables, Nuclear and Decarbonised Gas allows achievement of decarbonisation targets by 2050 with a reduction in investments of about 400B euros.

Looking ahead towards 2040





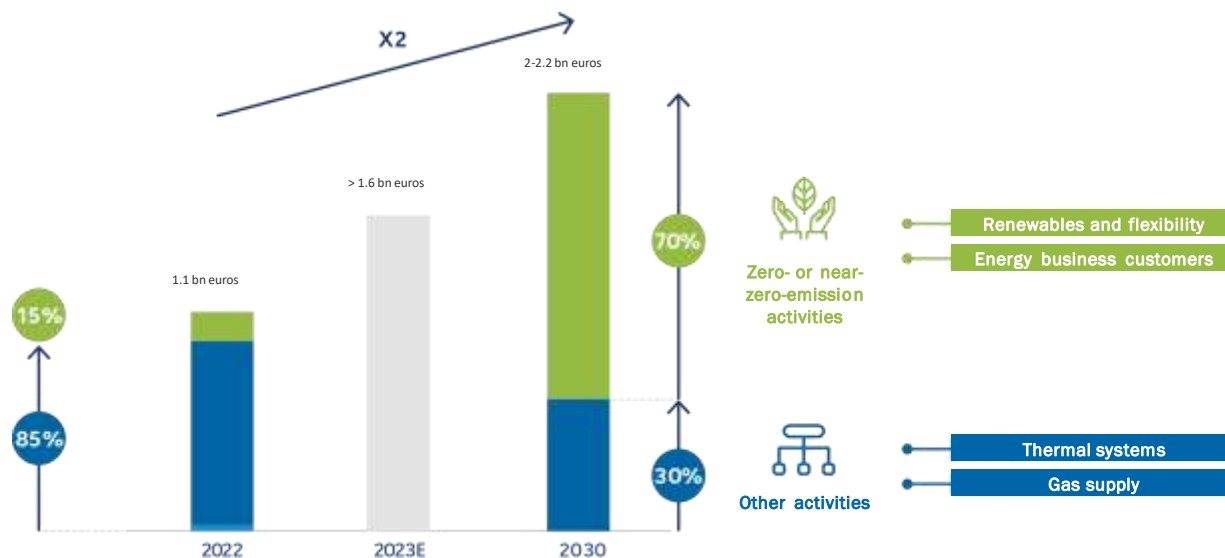
140 years of Edison

Our growth in figures

Ronan Lory
CFO, Edison

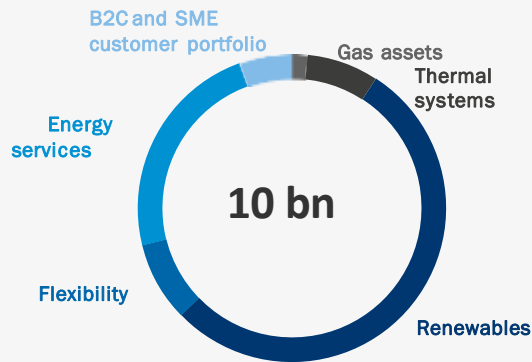
4th October
2023

Double challenge by 2030: a double EBITDA by increasing contribution from green sources



€10 billion investments with 85% SDG's alignment

Cumulative CapEx 2023-2030



Approximately 75% aligned with EU taxonomy regulation

Alignment with SDGs



In detail

SDG 7 Clean Sustainable Energy
SDG 11 Sustainable Cities and Communities

SDGs on which Edison is active

Investments (CapEx):



Other Costs (OPEX):



Ability to finance growth through operating cash flow and debt level in line with "investment grade" rating



140 years of Edison

Our Commitment to the Planet

Barbara Terenghi
EVP Sustainability,
Edison

4th October
2023

Sustainability: our journey and commitment

OUR GOAL

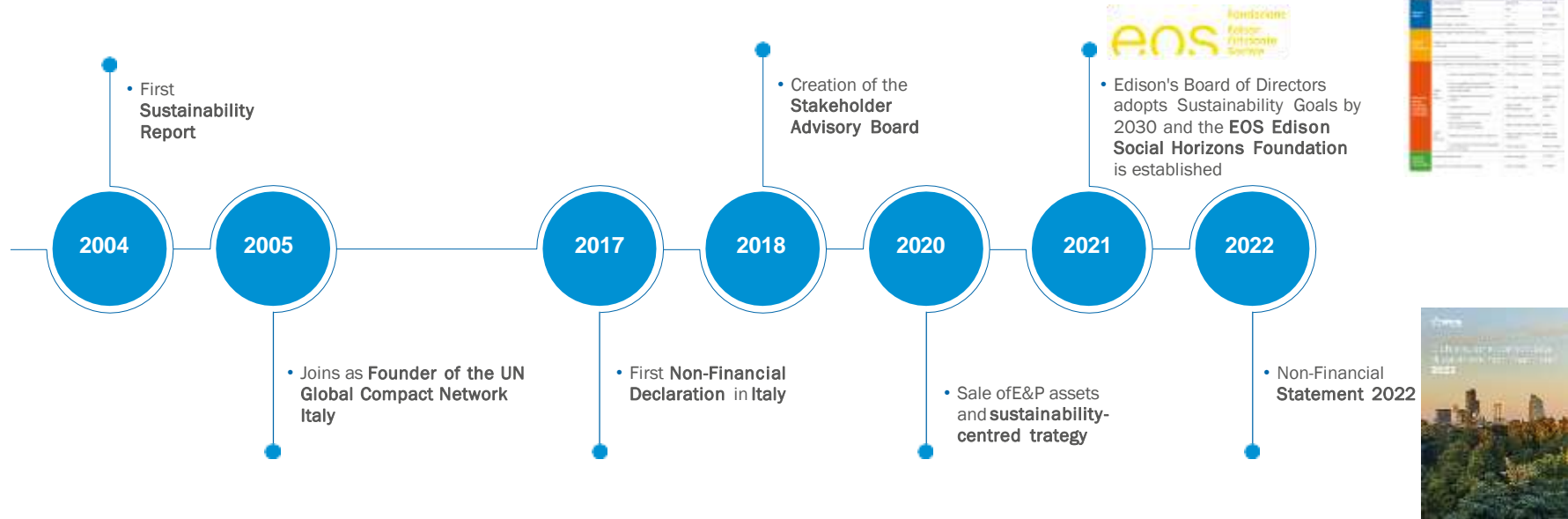
Edison intends to build a future of sustainable energy and play a leading role in energy transition for its customers, suppliers, communities and regions by contributing to protecting the planet and improving people's quality of life.

(from Sustainability Policy, 2022)



Sustainability: our journey and commitment

Our roadmap



Sustainability: 2022 results



CLIMATE ACTION

- 72% reduction in thermal emissions over previous 15 years
- 2+ GW renewables capacity
- 5 bio-methane plants under development
- 1.7 MCO₂ emissions avoided



NATURAL CAPITAL AND LANDSCAPE

- 100% power sites mapped for biodiversity
- 98% sites covered by ISO 14001 certification
- 4 bio-diversity and landscape projects



VALUE FOR CUSTOMERS, TERRITORY AND SUSTAINABLE ECONOMIC DEVELOPMENT

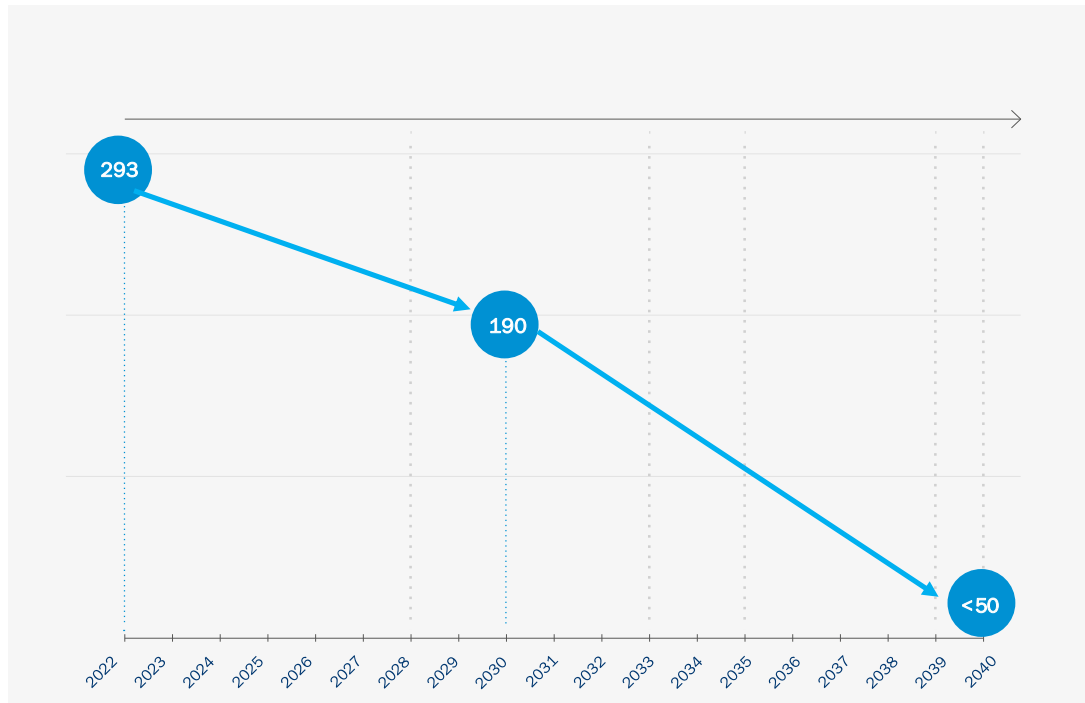
- 97% spending from Italian suppliers
- New 100% green residential customer offers
- 140 MW self-generation low-carbon industrial customers
- 60% local communities involved in local projects



HUMAN CAPITAL AND INCLUSION

- Accident rate 2020-22: 1.9 (0.3 on construction sites)
- 191 thousand hours of training (33 per employee)
- 89% of employees proud to work at Edison
- Top Employer for 9 consecutive years
- 800 employees involved in Sustainable Locations
(-20% energy consumption Milan office, +600% plastic sorted, -18% paper consumption)

Our direct emissions by 2040 (Scope 1)



Decarbonisation trajectory of the electricity mix with the ambition of reaching **90% decarbonised generation** by 2040.

Simultaneous reduction of 'absolute emissions', and emissions factor decrease from 293 gCO2/KWh in 2022 to 50 gCO2/KWh in 2040.

Our contribution to the Planet

Customer support for decarbonisation of downstream activities and avoided emissions

Ambitions
towards
2040

Indirect emissions Scope 3 customers



-40%
by 2040

Due to the evolution in the demand
for gas and the use of green gases

Avoided emissions

In accordance with GSE and ISPRA methodology (r343-2021)



+ 10 Mton
emissions
avoided/year
by 2040

Due to the evolution in the demand
for renewable generation, low
carbon and customers solutions*

* Residential and industrial photovoltaic, energy efficiency industrial clients, heat pumps end customers, electric mobility, biomethane and bio-lng for transport

Value to territories

Edison leads energy transition for its customers, suppliers, and communities

Suppliers

Solid relationships with its suppliers

2022: 3,000 qualified suppliers
over 600 million in purchases (97% from national suppliers)

OBJECTIVE ACCIDENT RATE

Average 3-year AR constantly <2 (1.9 three-year period 20-22)

Sustainable management of the supply chain

OBJECTIVE 2025

Over 95% of qualified suppliers with complied ESG questionnaire (supplier qualification valid for 3 years)

OBJECTIVE 2026

Over 95% of suppliers accredited for access to the “sustainable procurement academy”

INVESTMENTS BY 2030

South and Islands
50%
North 37%
Centre 13%

Regions and communities

Value to territories through activities with local stakeholders

60% local communities involved by 2022 with 40+ initiatives in 14 regions

GOAL BY 2030 100% local communities where Edison operates production sites, involved in initiatives of co-design/projects the local communities.

Fair-trade energy sustainability

OBJECTIVE BY 2025

7 fair-trade energy communities and support for vulnerable consumers with 2+ Mln euros (via Banco dell'Energia and EOS Foundation)

Social investment for a brighter Future

A project by Fondazione EOS – Edison Orizzonte Sociale ETS



Fondazione EOS was founded in January 2021 and represents Edison's corporate social enterprise by which the company's **social commitment and contribution to the Agenda 2030 objectives** are consolidated.

To celebrate its 140th anniversary, Edison jointly with Fondazione EOS decided to support a project by **CasaOz Torino** '*Un Ponte tra Ospedale e territorio*' (a bridge between hospital and territory) to protect teenagers with neuropsychiatric disorders.

With the help of Edison Energia a new **energy community with social impact is being realized at the new center in Molino di Cavoretto**. Edison Energia will provide economic support to the project in the next years.



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