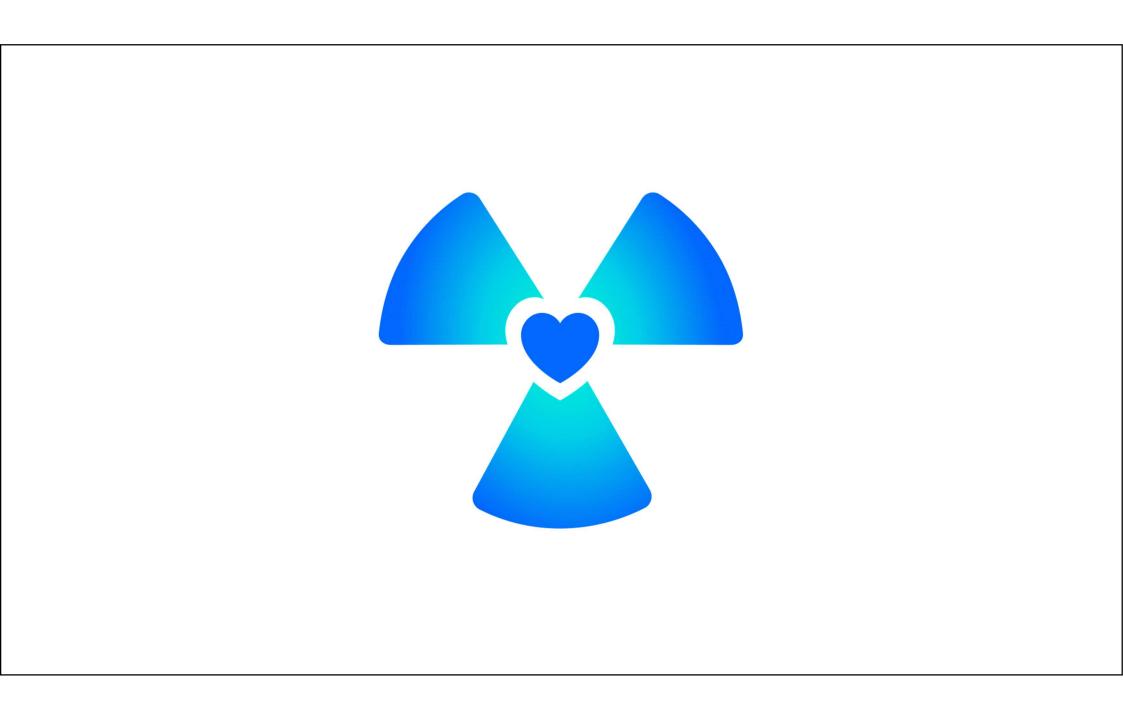


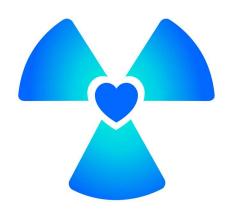
Speaker

Luca Romano L'Avvocato dell'Atomo



### Is Nuclear power back in Italy?

by Luca Romano



Luca Romano, Physics MS and Industrial Engineering PhD candidate, is the founder and director of the project "L'Avvocato dell'Atomo", which educates the Italian public about the benefits of nuclear power. The project is the largest of its kind, with over 350,000 unique followers across various social media platforms, and has been a driving factor in changing the public discourse in Italy about nuclear energy.

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#### Past, Present and Future

Italy has a great history when it comes to nuclear, we could actually say nuclear was an Italian invention.

In the 60s, Italy was for a brief period the 3rd civil nuclear country in the world...

Unfortunately, the development of nuclear energy was stalled through political corruption by the Oil Companies.



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#### Past, Present and Future

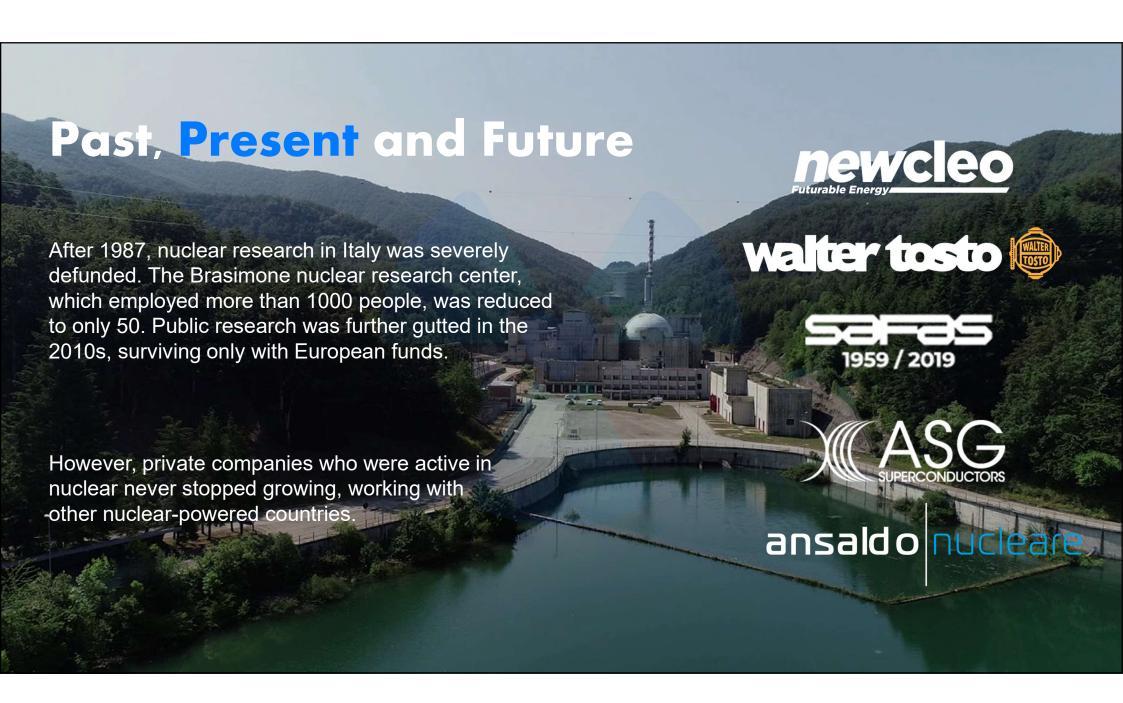
After a tentative revival in the 70s, the Italian nuclear program was discontinued between 1987–1990, following the Chernobyl disaster. No, it was not decided through a referendum.

Between 2008–2011 there was a tentative revival, but it was killed in the wake of the Fukushima meltdown — this time it was a referendum.

#### Italian referendum likely to dash Berlusconi's nuclear energy plans

Prime minister dealt second political blow in less than two weeks as opponents succeed in getting turnout above 50%





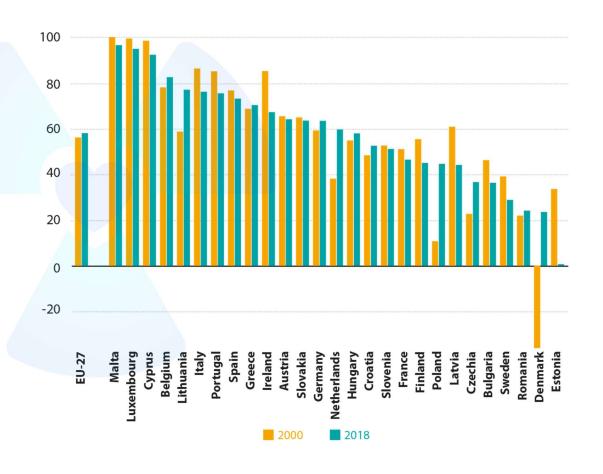
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## What Did We Gain from

**Nuclear Exit?** 

One of the highest energy dependence in Europe.

#### **Energy dependency rate (%)**



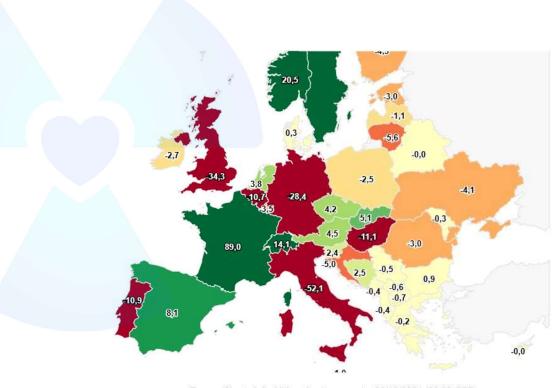
Source: Eurostat

## What Did We Gain from Nuclear Exit?

Biggest net importer of Electricity in Europe.

#### Commercio transfrontaliero di energia elettrica in 2024

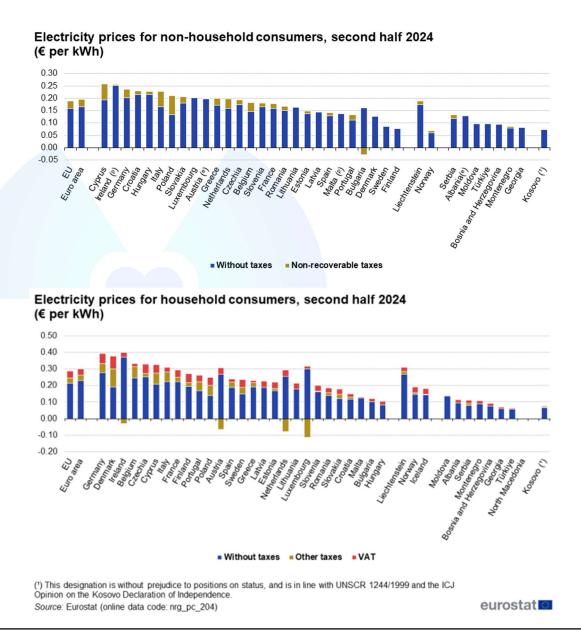
In TWh, I valori positivi (verdi) le esportazioni, quelli negativi (rossi) indicano le importazioni



Energy-Charts.info; Ultimo Aggiornamento: 30/12/2024, 08:06 CET

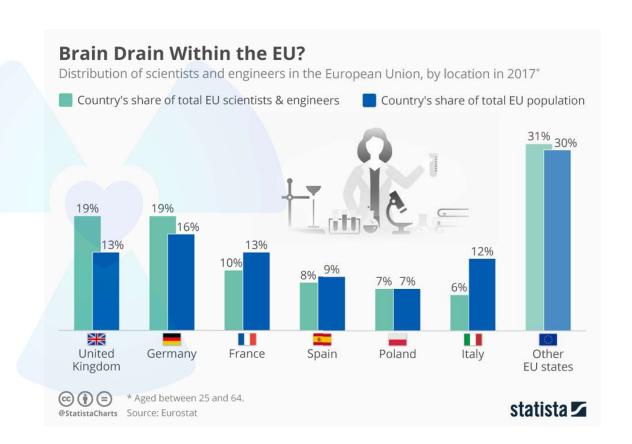
## What Did We Gain from Nuclear Exit?

Very high electricity prices, both for household and nonhousehold consumers



## What Did We Gain from Nuclear Exit?

A worrying brain drain.

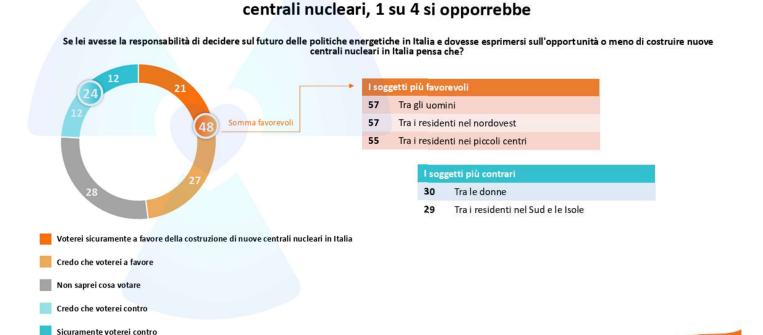


#### Past, Present and Future

Tutti i diritti riservati

In the last few years, nuclear started gaining back some popularity, especially amongst younger people (who are afraid of Global Warming) and entrepreneurs (because of the gas crisis).

Today, 1 every 2 Italians is either in favor or leaning towards nuclear power, the others being split almost evenly between undecidedness and strong opposition.



swg - Week

Se avesse la responsabilità della decisione, 1 italiano su 2 sceglierebbe di costruire nuove

Valori %.

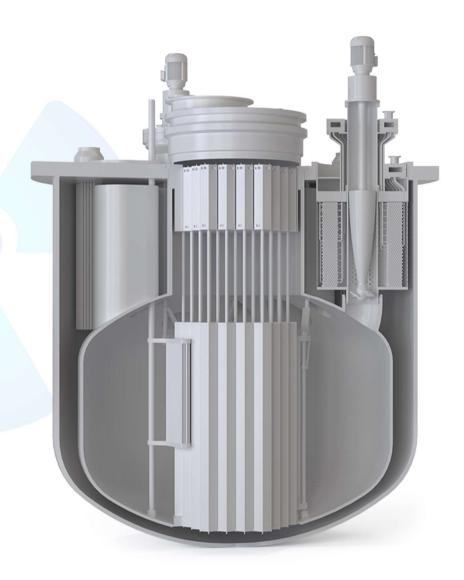
# Italian nuclear technology is still pioneering.

In 2021, Italian entrepreneur and physicist Stefano Buono gives birth to newcleo, to develop a proprietary nuclear technology.

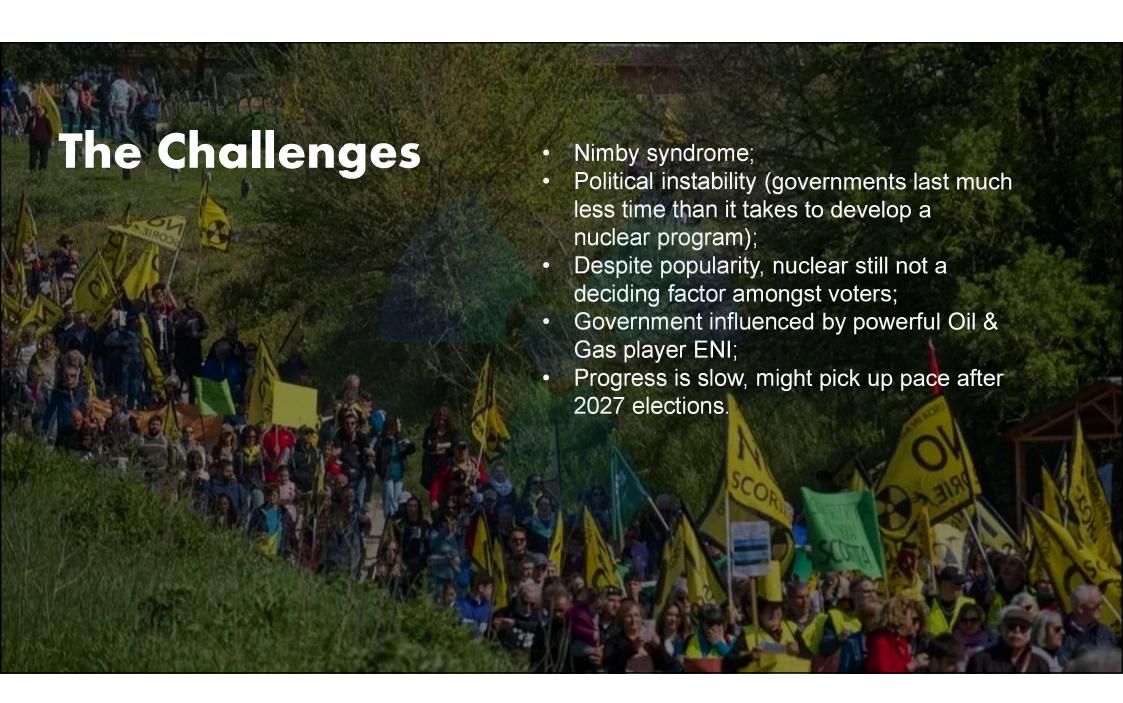
newcleo reactor: Lead cooled, fast neutrons, waste converter. Runs on MOX and can recycle spent nuclear fuel.

#### Timeline:

- Precursor on schedule to be built next year
- 30 MW prototype by 2030 (in France)
- Commercial reactor (200 MW) in the 2030s
- Currently the most advanced 4th gen reactor developer in the EU.



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A popular draft bill proposal **gathered 70k signatures** in 3 days in November '24.

Some key points were included in a government proposal that was approved in the council of ministers in February '25.

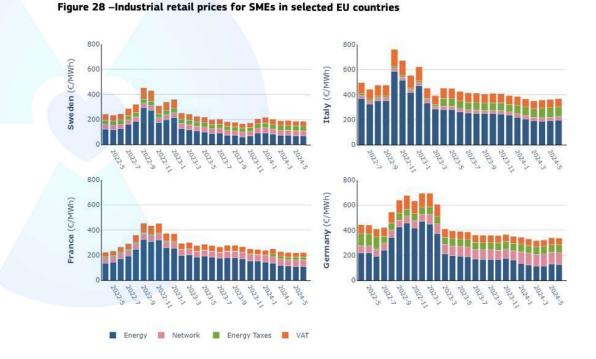
The draft is to be discussed by parliamentary commissions and then by the two chambers, but discussion was postponed so far.

If approved, the bill will reintroduce regulations and criteria to build and operate nuclear reactors in Italy. It does not automatically reintroduce nuclear power in the energy mix, but it opens the door for it.

Italy installed over 17 GW of new renewables in the past 3 years, totalling 37 GW of Solar and wind capacity. Despite this, electricity bills didn't decrease significantly (and the slight decrease is entirely attributable to the decline in the price of gas).

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Germany is now above 150 GW of installed renewable capacity, but German industries still suffer because of high energy prices reducing competitiveness. German economy receded both in 2023 and 2024.

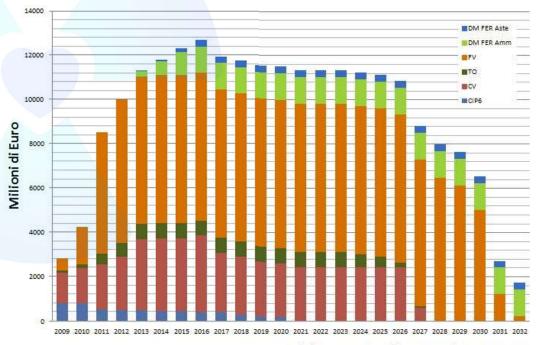


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Despite the claims renewables are cheap, in Italy we still subsidize solar energy at 90-110 €/MWh fixed price and offshore wind at 185 €/MWh - that is more than the most expensive nuclear plants in the world.

#### Costo incentivazione fonti rinnovabili



Elaborazioni Assoelettrica su dati AEEG e GSE

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Italy spends more than 12 bln/year in renewable subsidies. Germany, more than 20 (that's the cost of the ITER fusion research program). For comparison, EDF net profit in both 2023 and 2024 surpassed 11 bln, while keeping french bills low. While Italy is slowly waking from its slumber, Germany CAN achieve results much faster, by reactivating mothballed reactors.

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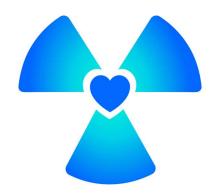
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Either Germany or Italy swinging in the direction of nuclear would massively shift the balance within the EU. EU policies are extremely important to drive down interest rates and speed up bureaucracy of new nuclear.

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Europe is now at a crossroad:
either embrace nuclear and sustainable development
or keep chasing degrowth nurturing far-right
extremism.

We need a unified European nuclear plan.

Thank you for your attention.

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