



EUROPEAN NUCLEAR SOCIETY

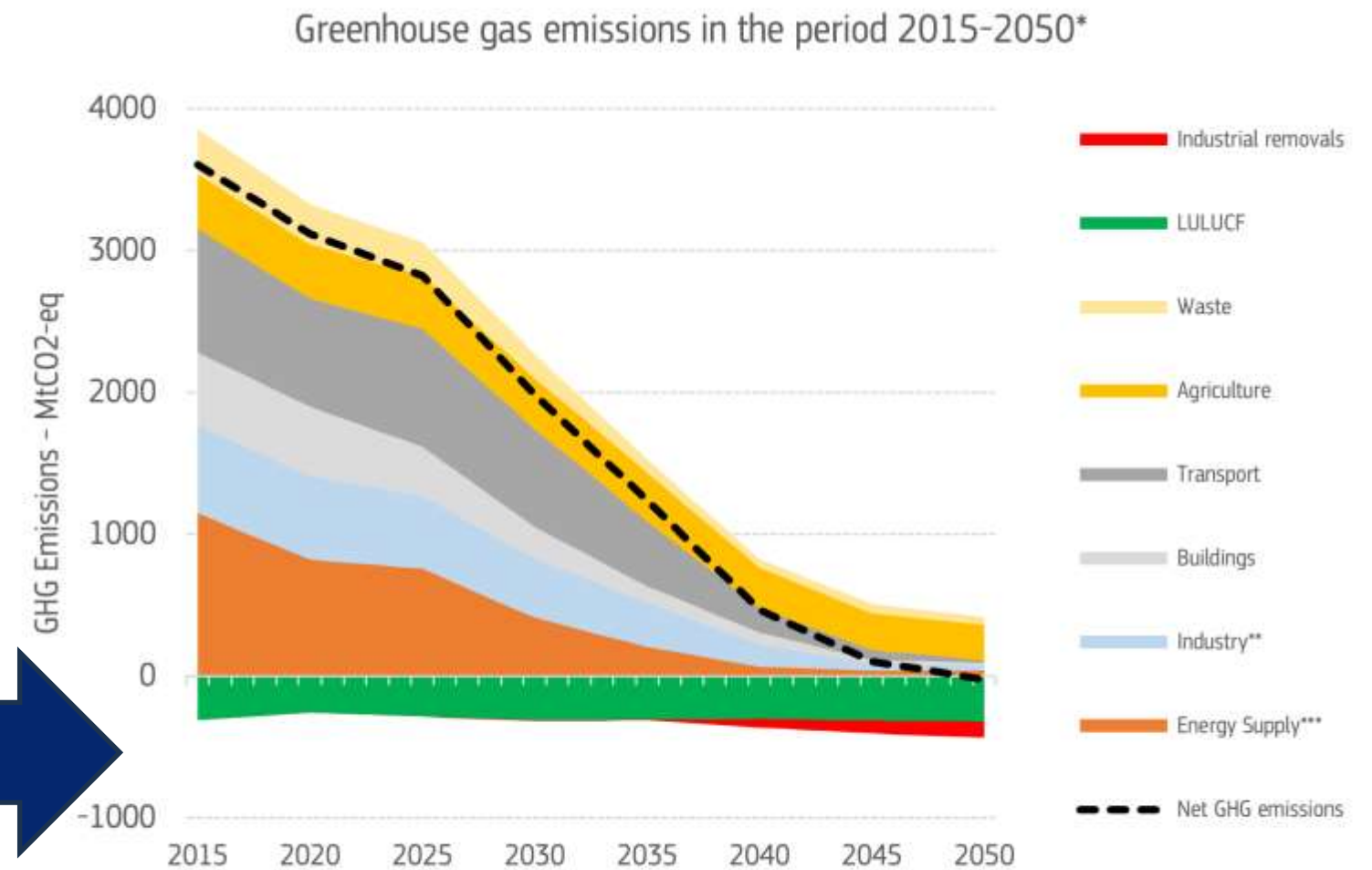
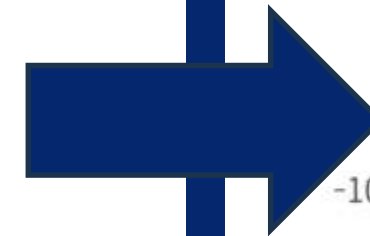
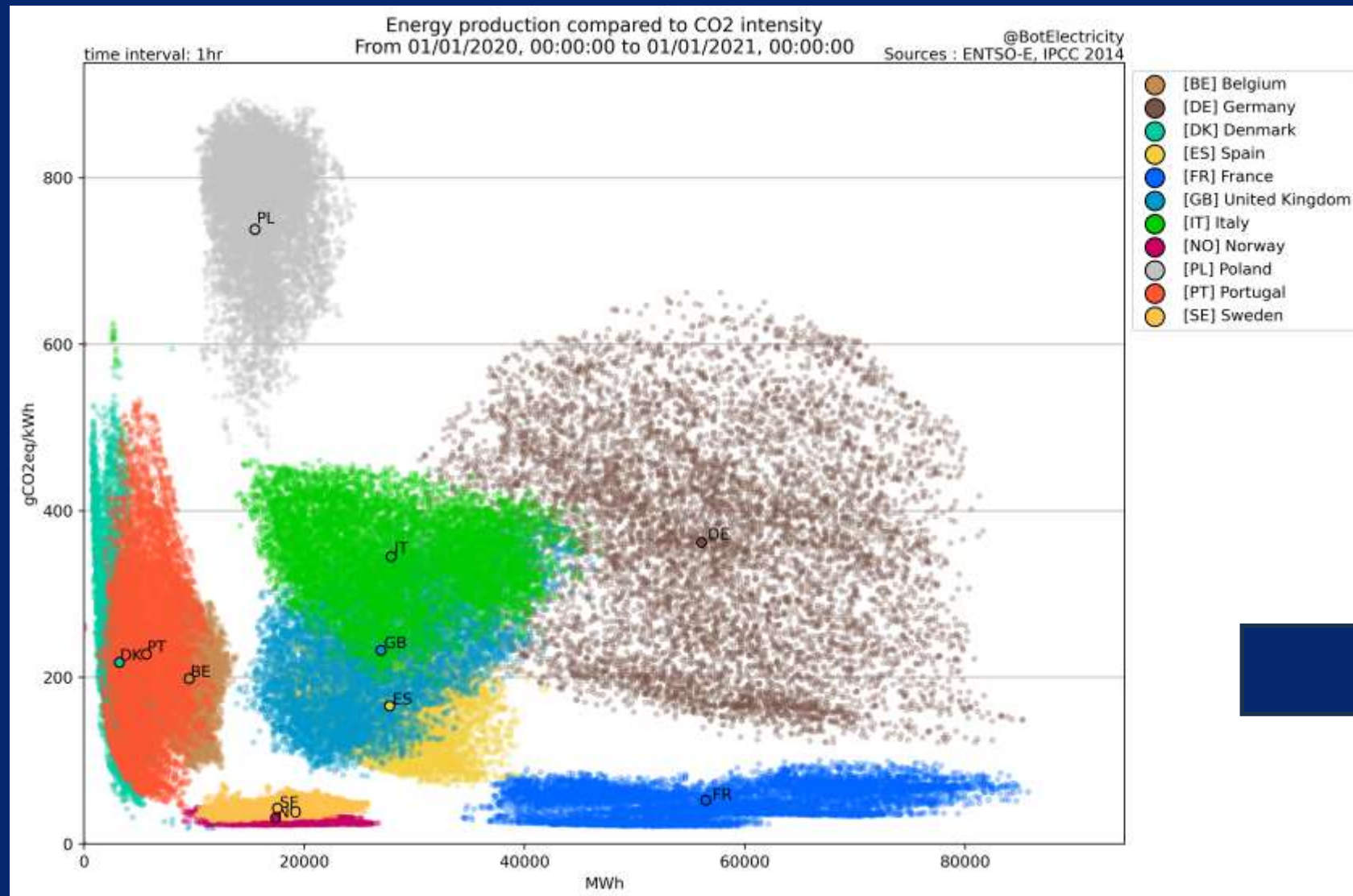
Nuclear – public acceptance in Europe

Jadwiga Najder, ANS-LAS Seminar, 16 July 2024

INNOVATION



Net Zero ambition of the EU



*Source: PRIMES, GAINS, GLOBIOM

**Excluding non-BECCS industrial removals

***Including Bioenergy with carbon capture and storage (BECCS)

- **Climate Target 2030: reducing GHG emissions -55% (ref. 1990)**
- **Climate Target 2040: EC recommends -90%**

Nuclear energy in Europe



https://www.nucleareurope.eu/facts-figures/nuclear_facilities/

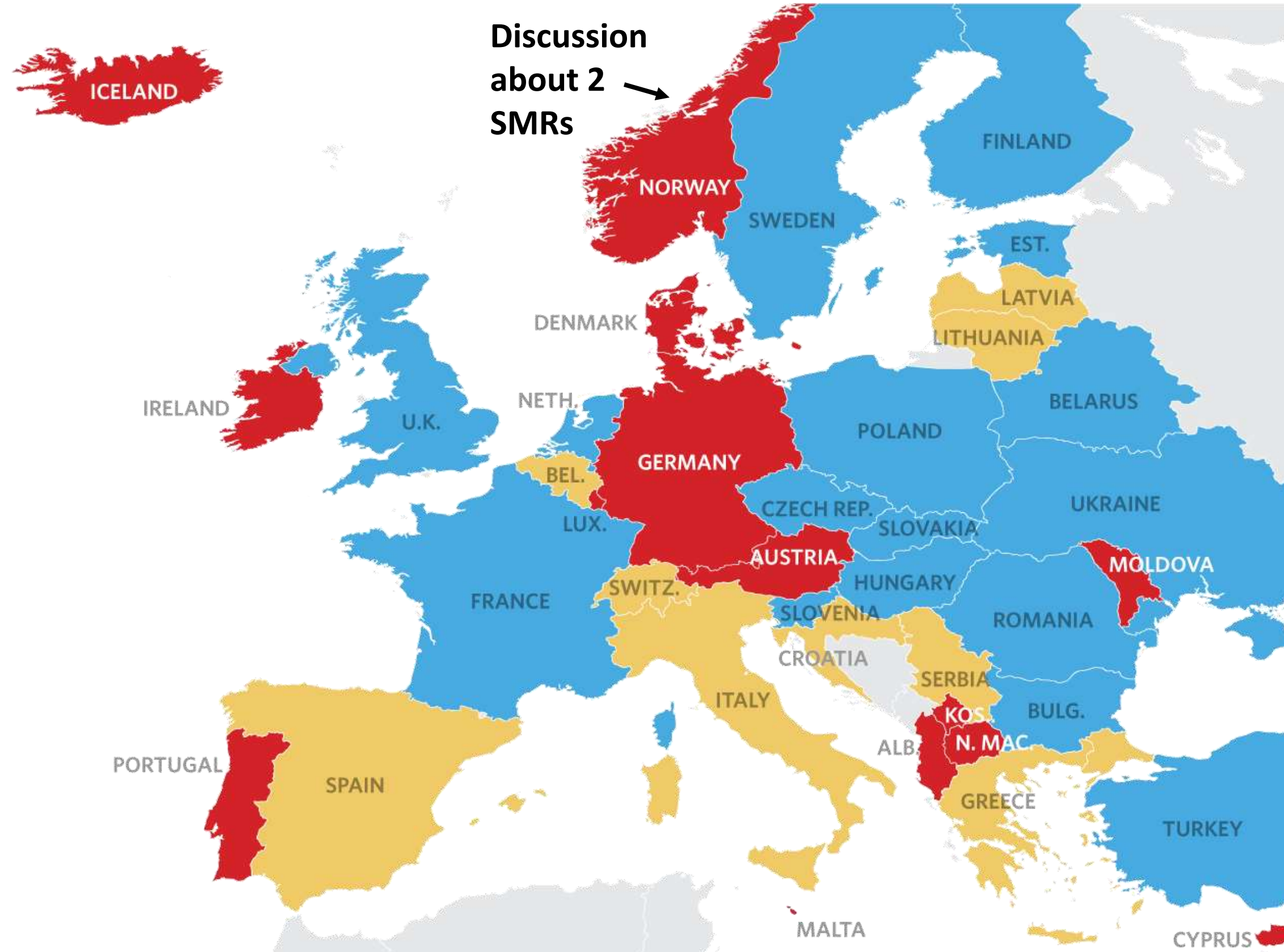
- **53 NPPs**
- **30 research centers**
- **8 NPPs in construction**
- **Around 25% of electricity in the EU and 50% of low-carbon electricity**
- **Included in EU taxonomy as transitional technology**
- **'Nuclear Alliance' – block of pro-nuclear countries**
- **SMR Industrial Alliance**

Support for Nuclear Power in Europe

Actively considering building new nuclear reactors

Slowly phasing out nuclear power or potentially considering building new nuclear reactors (including non-conventional)

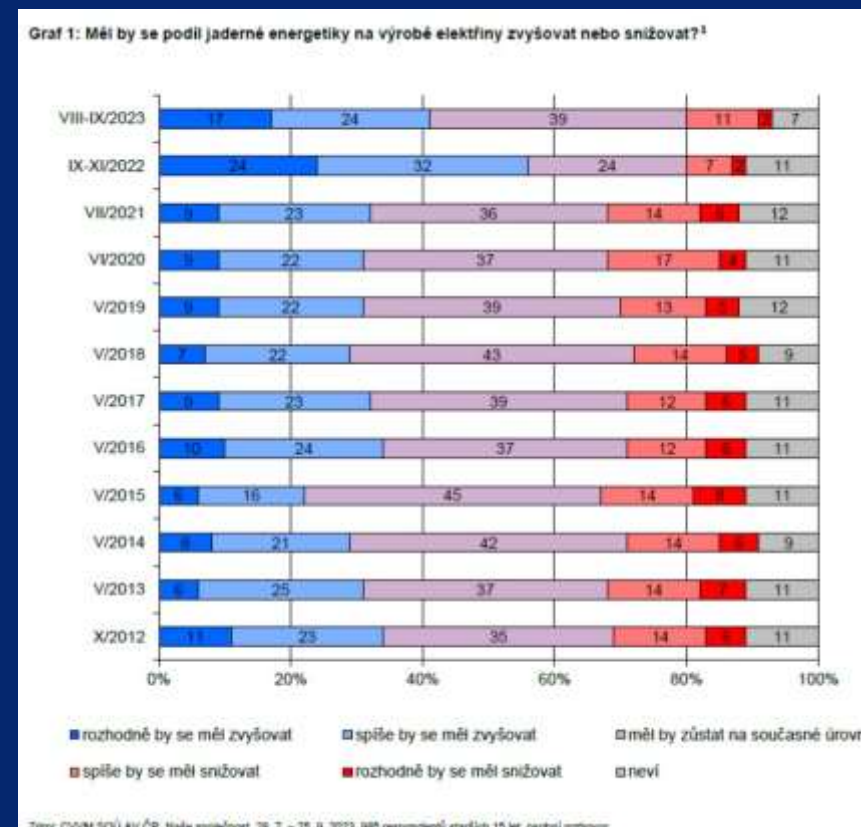
Opposes nuclear power or unlikely to consider building new nuclear reactors



Public support: countries extending nuclear fleet

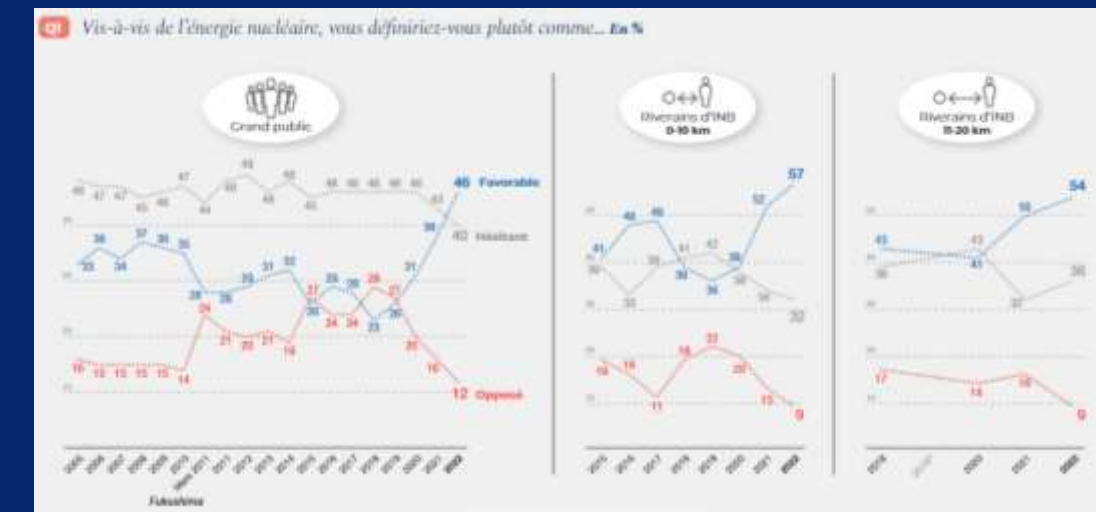
- **France : 46% (2022)**
 - NPP local communities: 57%
- **UK: 65% (2023)**
- **Czech Republic: 80% (2023)**
 - Supporting new NPPs: 41%
- **Slovenia : 68% (2023)**
 - Prim. Sch. Ed: 50%
 - Master degree: 74%
- **Hungary: 70% (2023)**
- **Sweden: 84% (2024)**
 - Supporting wen NPP: 25%

Czech Republic:



<https://cvvm.soc.cas.cz/cz/tiskove-zpravy/ostatni/ekologie/5763-verejnost-o-jaderne-energetice-srpen-zari-2023>

France:



<https://www.asn.fr/publications/2023/ASN-Barometre-2022-2023/6/#zoom=true>

Public support: potential newcomer countries

- Poland: 90% (2023)**

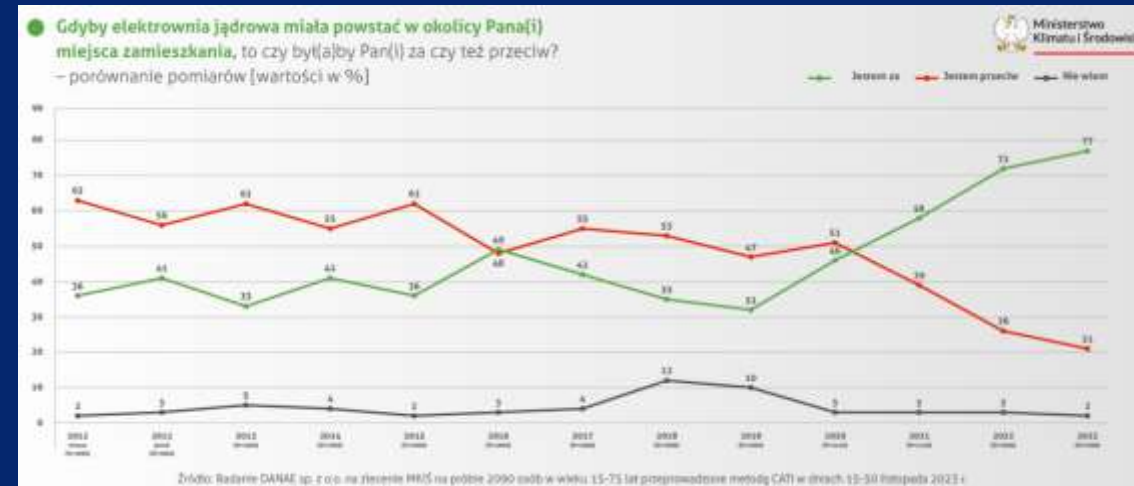
- Large cities: 97,5%
- Small cities: 14%
- Largest support: 18-39 y.o.

- Italy: 51% (2024)**

- Estonia: 69% (2024)**

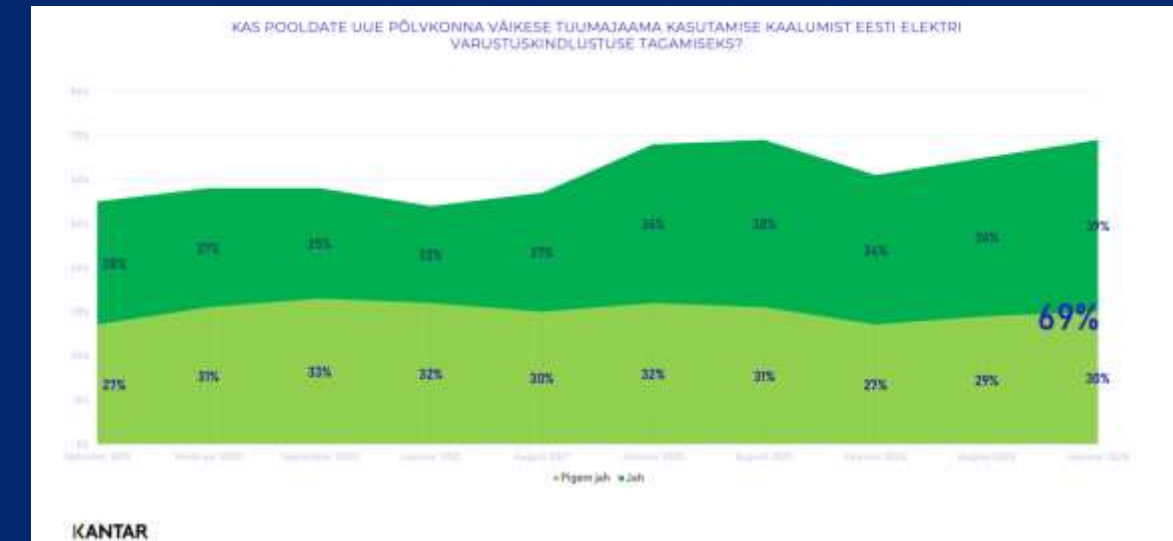
- Serbia: 13% (2024)**

Poland: anti-NIBMY



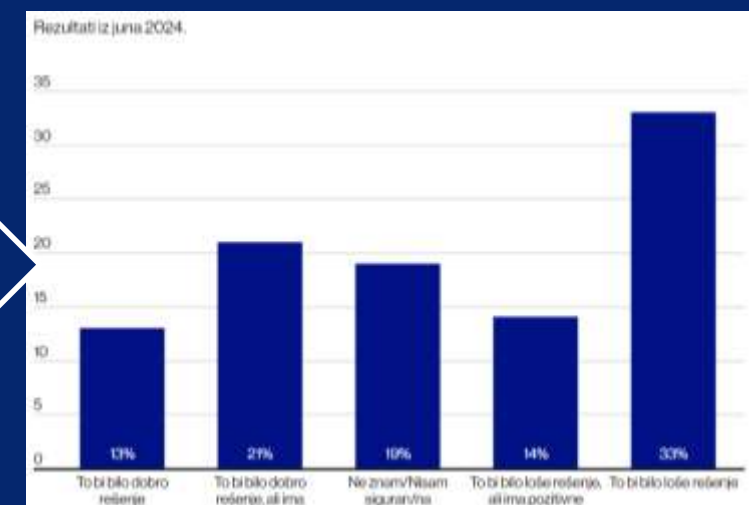
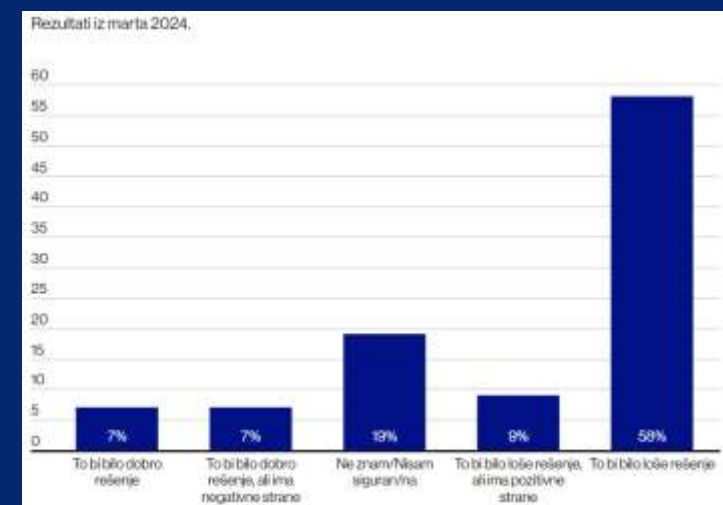
[https://www.gov.pl/web/polski-atom/niemal-90-proc-polakow-za-budowa-elektrowni-jadrowych-w-polsce#:~:text=wskazuje%2C%20%20C5%BCe%2089%2C9%20proc,Polsce%20\(61%2C7%20proc](https://www.gov.pl/web/polski-atom/niemal-90-proc-polakow-za-budowa-elektrowni-jadrowych-w-polsce#:~:text=wskazuje%2C%20%20C5%BCe%2089%2C9%20proc,Polsce%20(61%2C7%20proc)

Estonia:



<https://fermi.ee/toetus-tuumaenergiale-eestis-on-ajaloo-tugevaim/>

Serbia:



<https://rs.bloombergdria.com/ost-alo/opste/61309/nuklearna-energija-dobija-sve-vise-zagovornika-u-srbiji/news>

Public support: countries phasing out

- **Germany: 59% (2023)**
- **Spain: 43% (2023)**
- **Belgium (2024):**

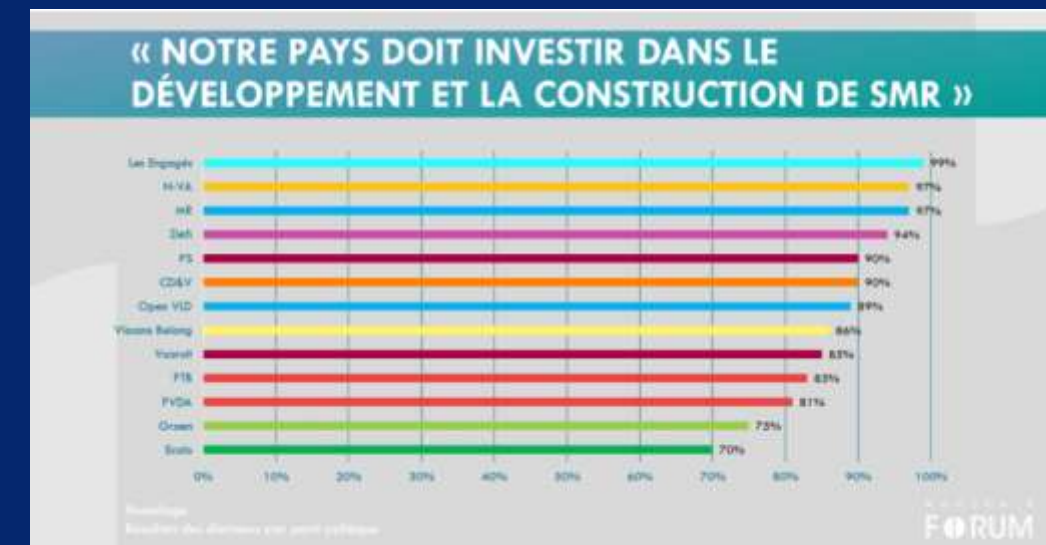
- **Extended LTO: 70%**
- **New NPPs: 52,1%**
- **New SMRs: 87%**

Germany:



<https://www.tech-for-future.de/atomkraft-umfrage/>

Belgium (SMR support per party voters):



<https://www.forumnucleaire.be/sondage-nucl%C3%A9aire-politique-2024>

What do we conclude?

- **Public acceptance following political situation, announcements, crises**
- **Women consistently more sceptical than men**
- **Higher level of education or large cities = higher support**
- **Youth has more amplified views of the general country consensus**



Network of nuclear experts and advocates

- 22 Member Societies
- +12.000 Members

- | | | |
|---|---|---|
|  Austrian Nuclear Society |  Belgian Nuclear Society |  Bulgarian Nuclear Society |
|  Croatian Nuclear Society |  Czech Nuclear Society |  Finnish Nuclear Society |
|  French Nuclear Energy Society |  German Nuclear Society |  Hungarian Nuclear Society |
|  Israel Nuclear Society |  Italian Nuclear Association |  Lithuanian Nuclear Energy Society |
|  Netherlands Nuclear Society |  Slovak Nuclear Society |  The Nuclear Institute |
|  Serbian Nuclear Society |  Nuclear Society of Slovenia |  Polish Nuclear Society |
|  Swedish Nuclear Society |  Swiss Nuclear Society |  Spanish Nuclear Society |
| |  Ukrainian Nuclear Society | |



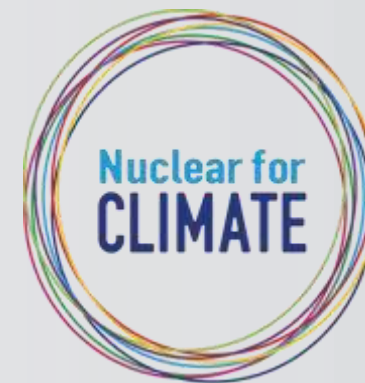
Supported by companies

- 27 Corporate Members supporting the organisation



And International organisations

ENS has strong partnerships with many international nuclear agencies and NGOs



Public acceptance activities: embedded in education system

- Self initiative of Societies
- Financial support of the State : e.g. Ministry of Climate, Poland



ATOM BEZ STRACHU

γ — α — β — ○ **Promieniotwórczość**
 mam wiedzę
 nie mam strachu

Courses and scientific fairs

- Nuclear science courses at universities
- Nuclear workshops in local culture centers

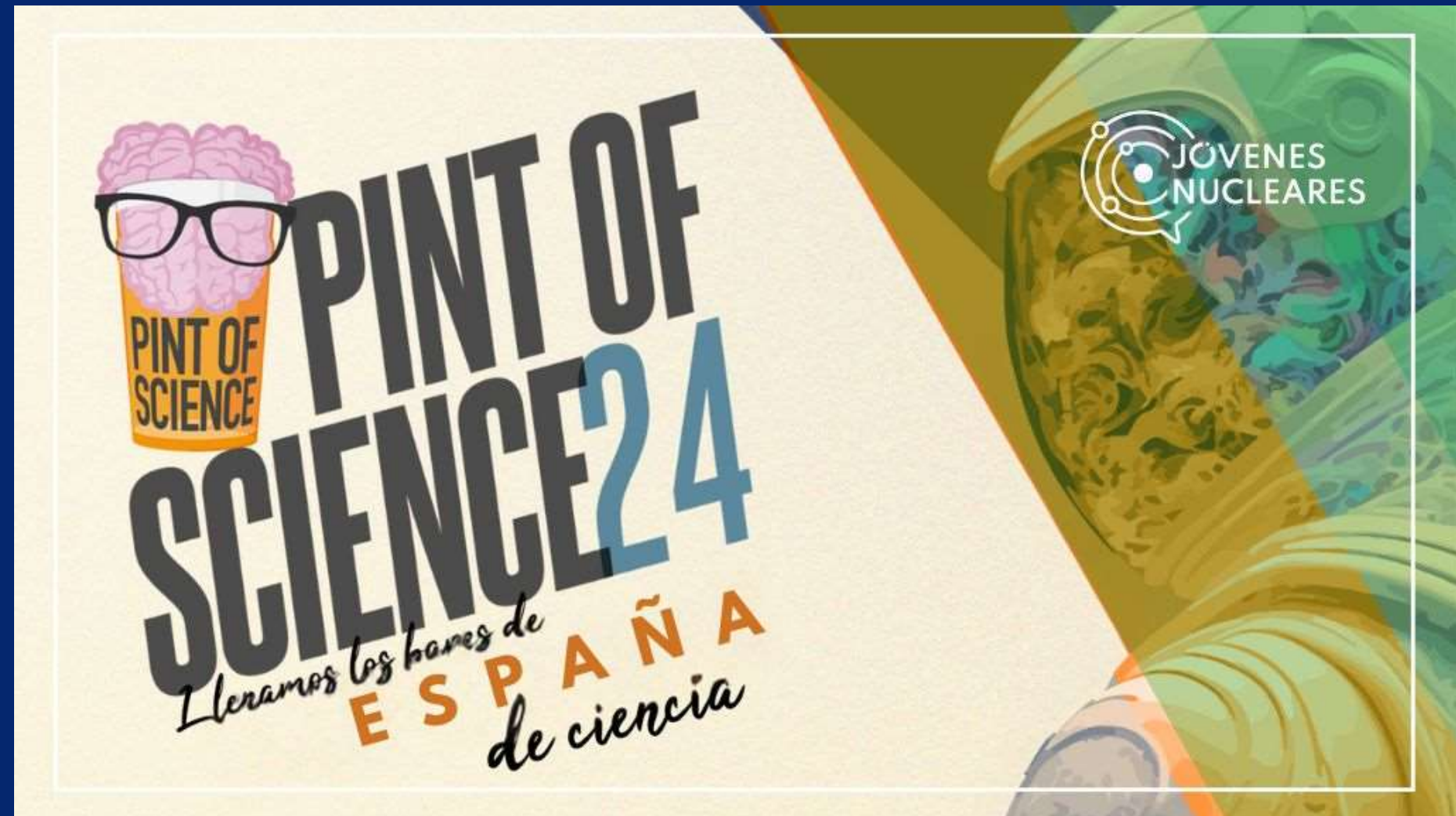
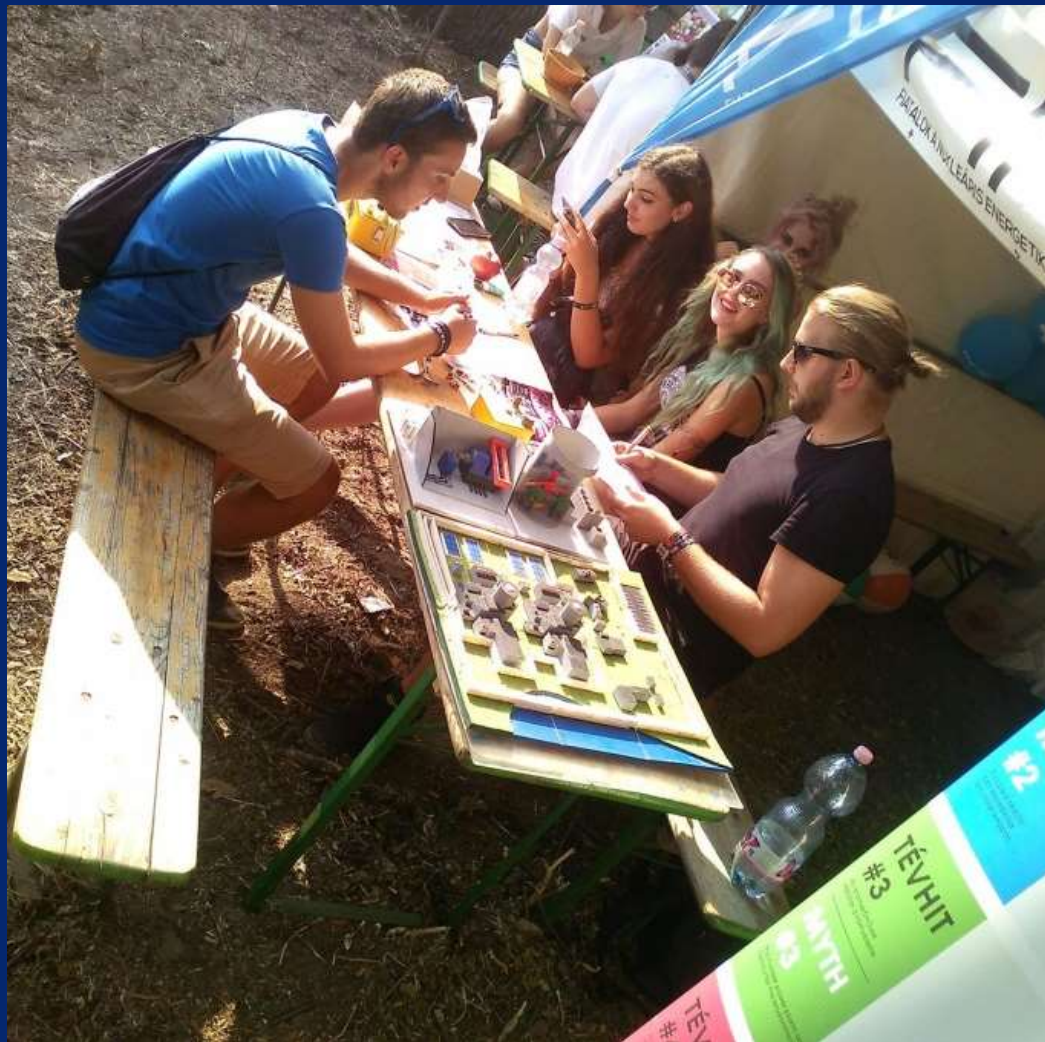


Educational materials

- Nuclear section in Museum of Nikola Tesla in Zagreb
- Training and materials for nuclear ambassadors



Informal awareness raising events



Popular culture, media



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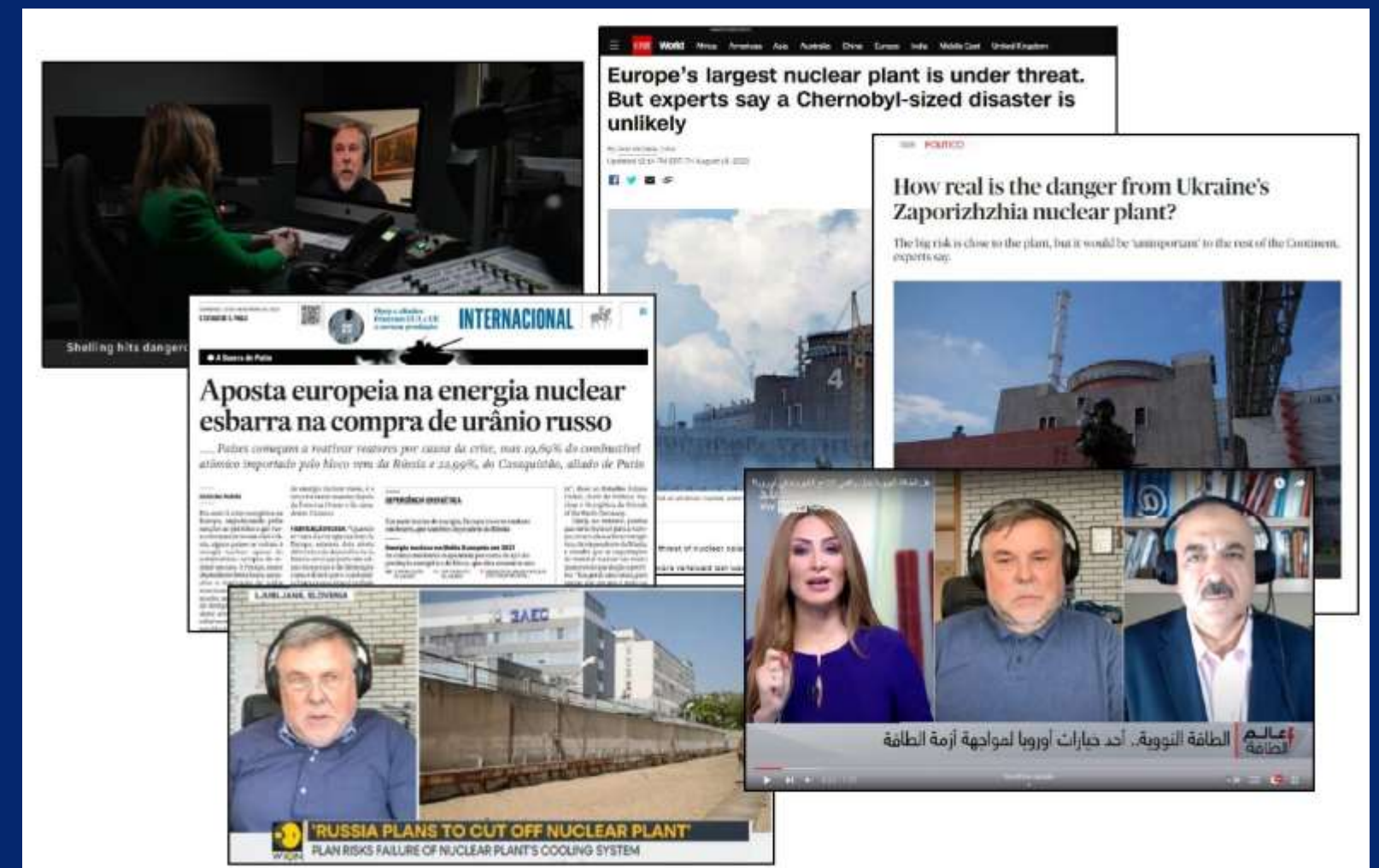
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Shelling hits danger

Europe's largest nuclear plant is under threat. But experts say a Chernobyl-sized disaster is unlikely

How real is the danger from Ukraine's Zaporizhzhia nuclear plant?
The big risk is close to the plant, but it would be 'unimportant' to the rest of the Continent, experts say.

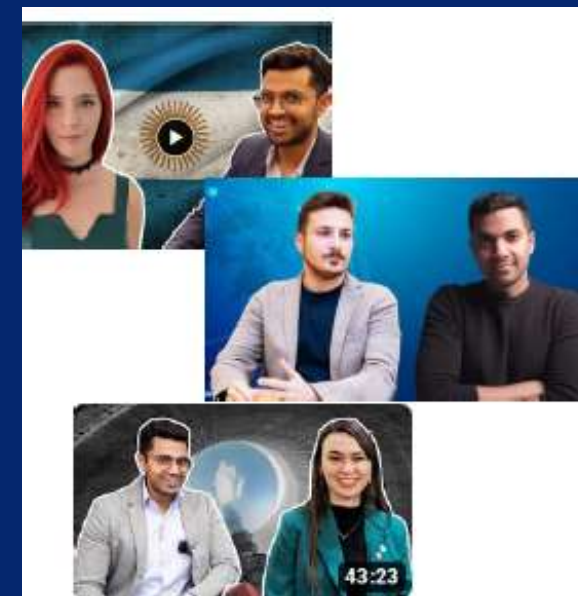
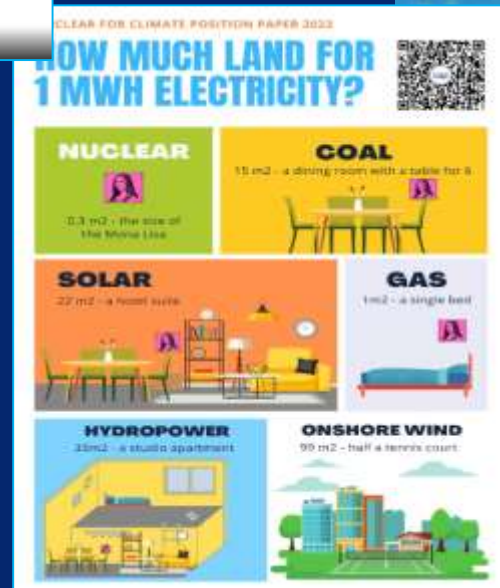
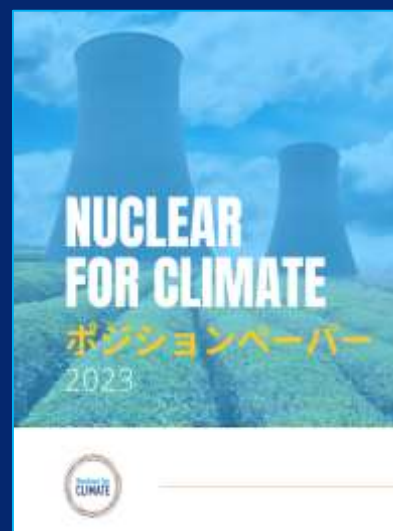
INTERNACIONAL

Aposta europeia na energia nuclear esbarra na compra de urânio russo
... Países começam a reavaliar reações por causa da crise, mas 99,6% do combustível atômico importado pelo bloco vem da Rússia e 23,6% do Caspian, aliado de Putin

RUSSIA PLANS TO CUT OFF NUCLEAR PLANT
PLAN RISKS FAILURE OF NUCLEAR PLANT'S COOLING SYSTEM

العالم
إضافة
الطاقة النووية. أحد خيارات أوروبا لمواجهة أزمة الطاقة

Nuclear for Climate



- Webinars
- Infographics
- Contests
- Tiktok videos
- Podcasts

THANK YOU

*We look forward to working
with you*

OFFICE



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