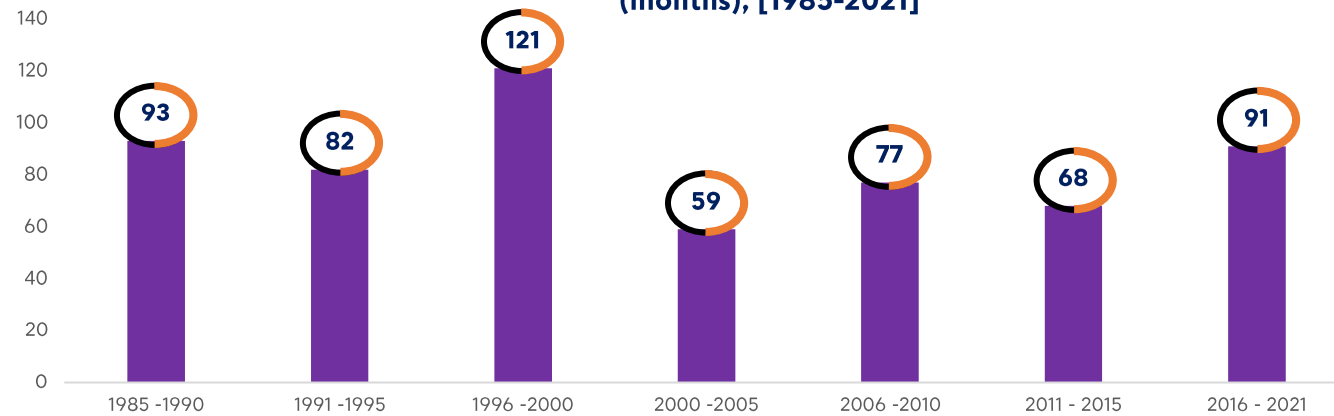


# In a nutshell: Nuclear Power in Europe

# In a nutshell: Nuclear Power in Europe

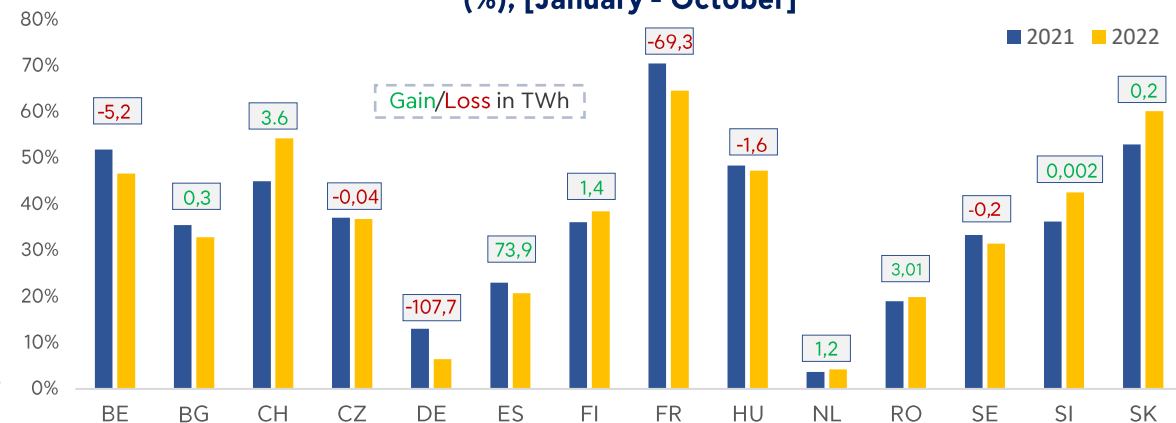
## Construction time of nuclear reactors (months), [1985-2021]



Source: International Atomic Energy Agency

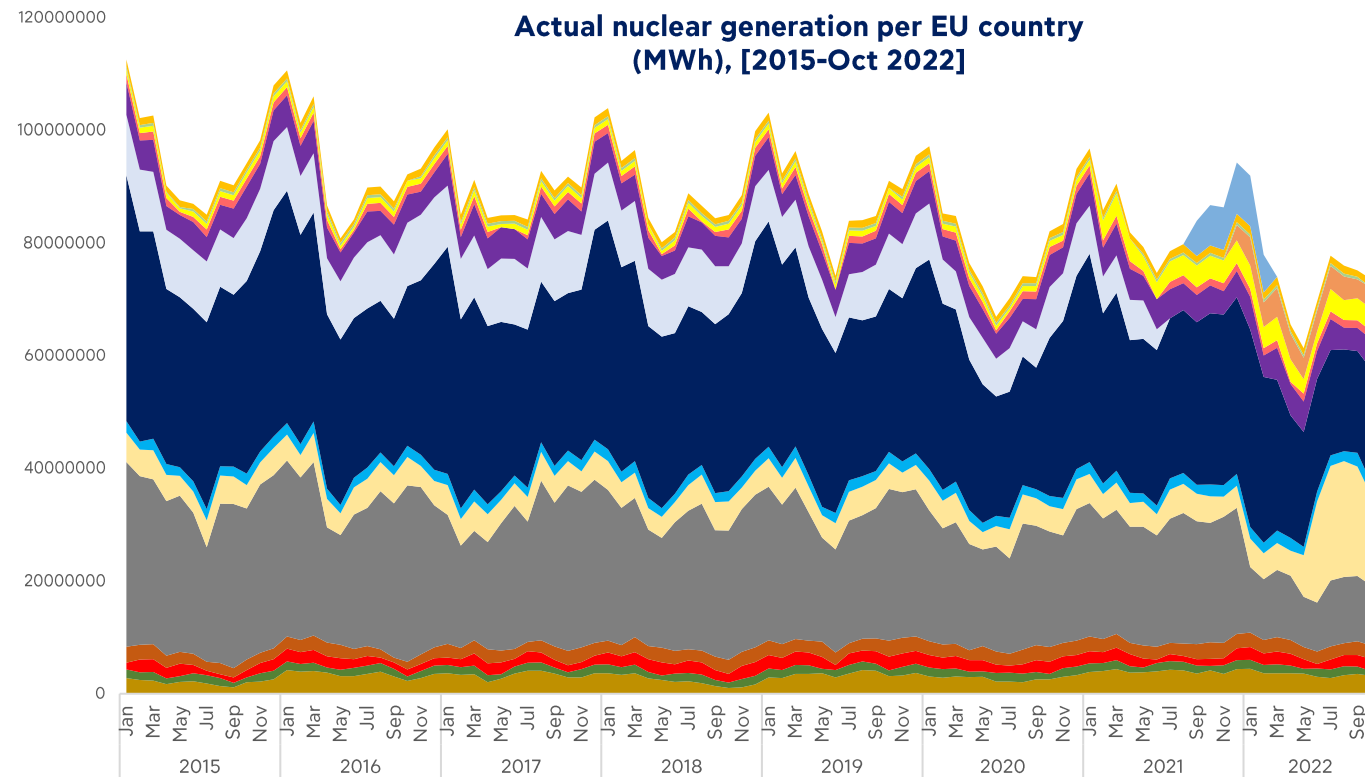
■ Construction time

## Nuclear share of electricity generation per country (%), [January - October]

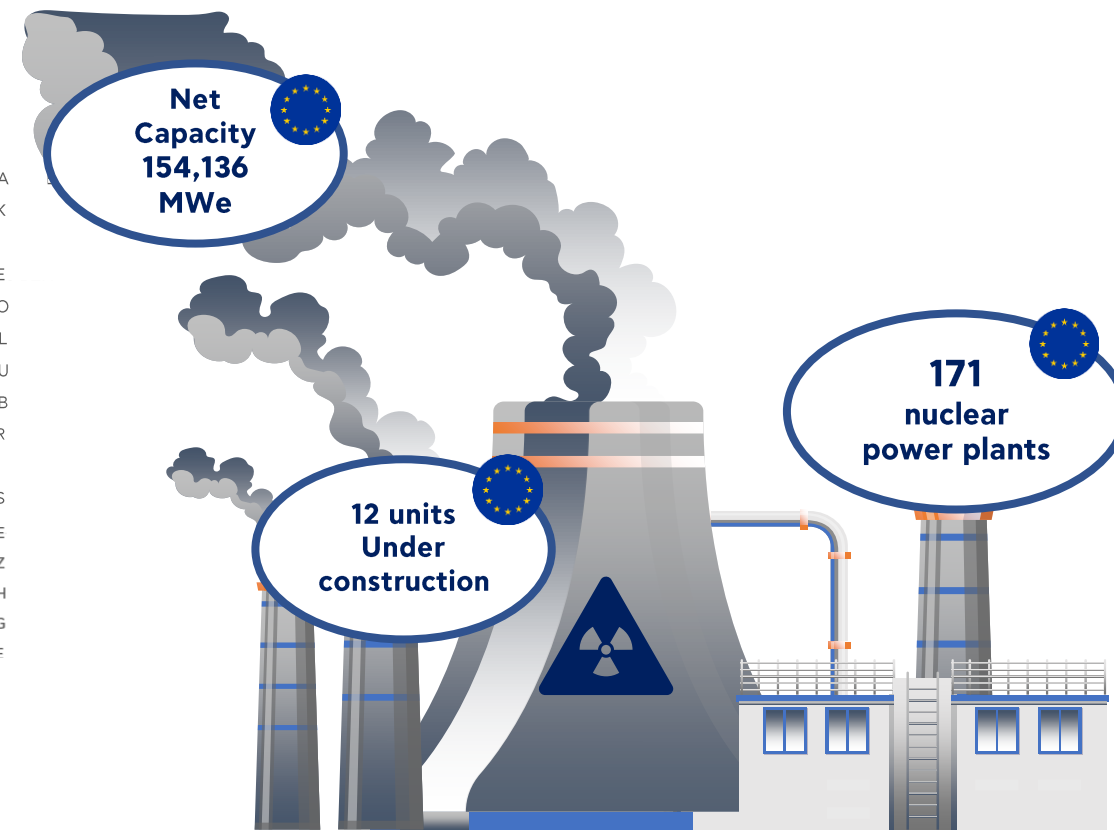


Source: Entso-e

## Actual nuclear generation per EU country (MWh), [2015-Oct 2022]



Source: Entso-e



# In a nutshell: Nuclear Power in Europe



The construction time of a nuclear reactor reaches approximately 7 years, meaning that the countries interested in increasing or even adding nuclear energy in their electricity mix need to develop long-term strategies.

In 2022, France, Slovakia and Switzerland hold the biggest share of nuclear energy out of the total share of electricity generation, with 65%, 60% and 54% respectively.



It is notable that half of France's nuclear power plants are shut down for maintenance or defects, causing important losses in the energy production, at a time of soaring demand for electricity amid the energy crisis in Europe.

A notable decrease in power generation is noticed for 2022 when compared to the previous years from 2015 and onwards. Substantial decrease is noticed for Germany, France while Spain is one of the few countries with notable increase in nuclear electricity generation in 2022.

In Europe there are 171 nuclear power plant units in operation, with an installed electric net capacity of 154,136 Mwe. According to the countries' strategic plans 12 units of 12,709 Mwe are already under construction in six countries.



## Join us here



**info@haee.gr**  
**www.haee.gr**



**Hellenic Association  
For Energy  
Economics (HAEE)**



**Hellenic Association  
for Energy Economics - HAEE**

## Meet the Team

### Chief-in-editor

Prof. Dr. Kostas Andriosopoulos

*Audencia Business School; President, Energy Transition  
Committee, HAEE*

### HAEE Research Team

Konstantinos Sfetsioris

Georgia Giannakidou

Nikos Georgiadis