

# Le nuove sfide per la decarbonizzazione

Gianni Silvestrini

Direttore scientifico Kyoto Club

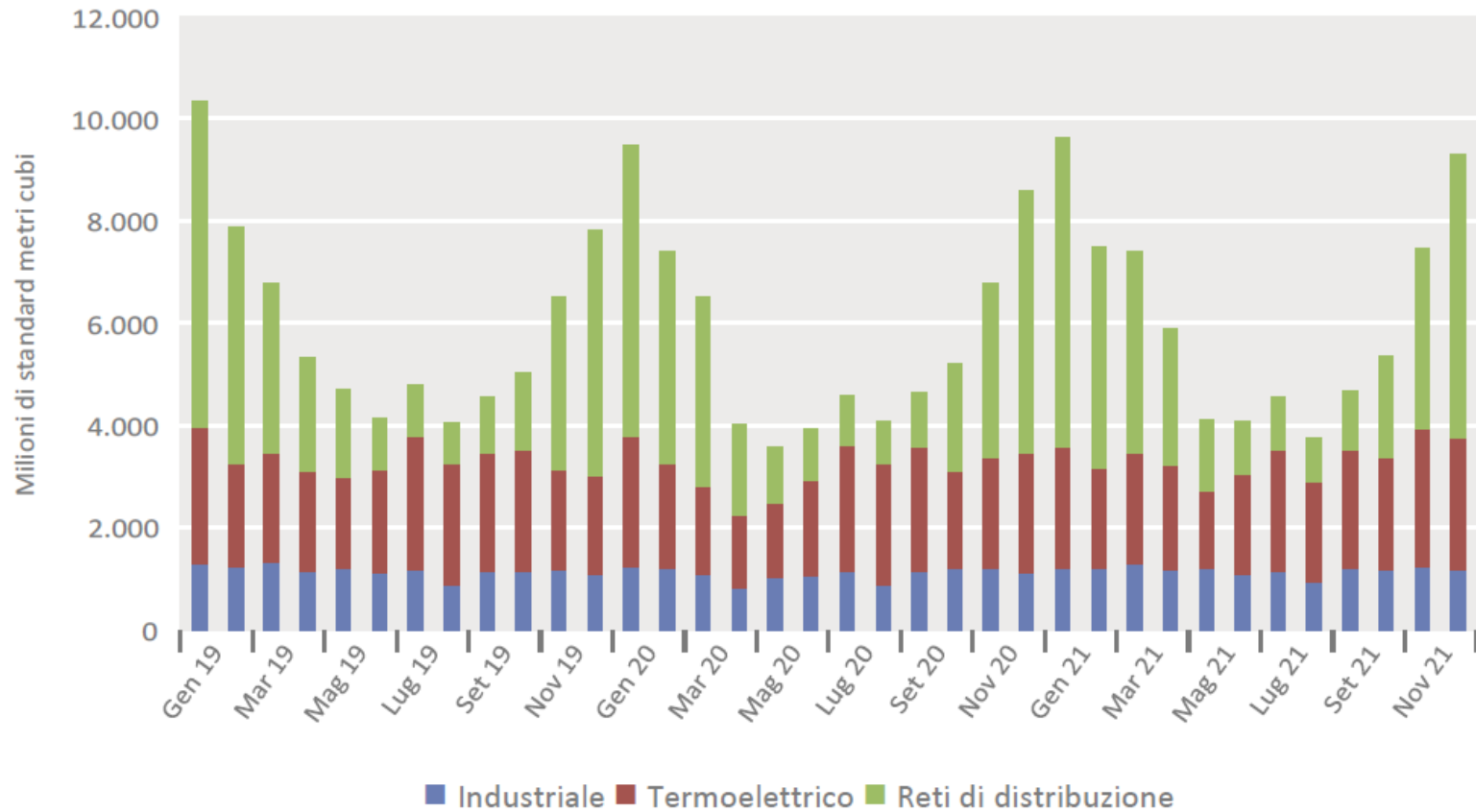
Siamo in una fase di alti prezzi dell'energia,  
che durerà per qualche anno.

Ma abbiamo soluzioni che possono ridurre la  
domanda di gas:

Le rinnovabili

L'efficienza energetica

Figura 1: Evoluzione dei consumi gas in Italia. Fonte: Snam.

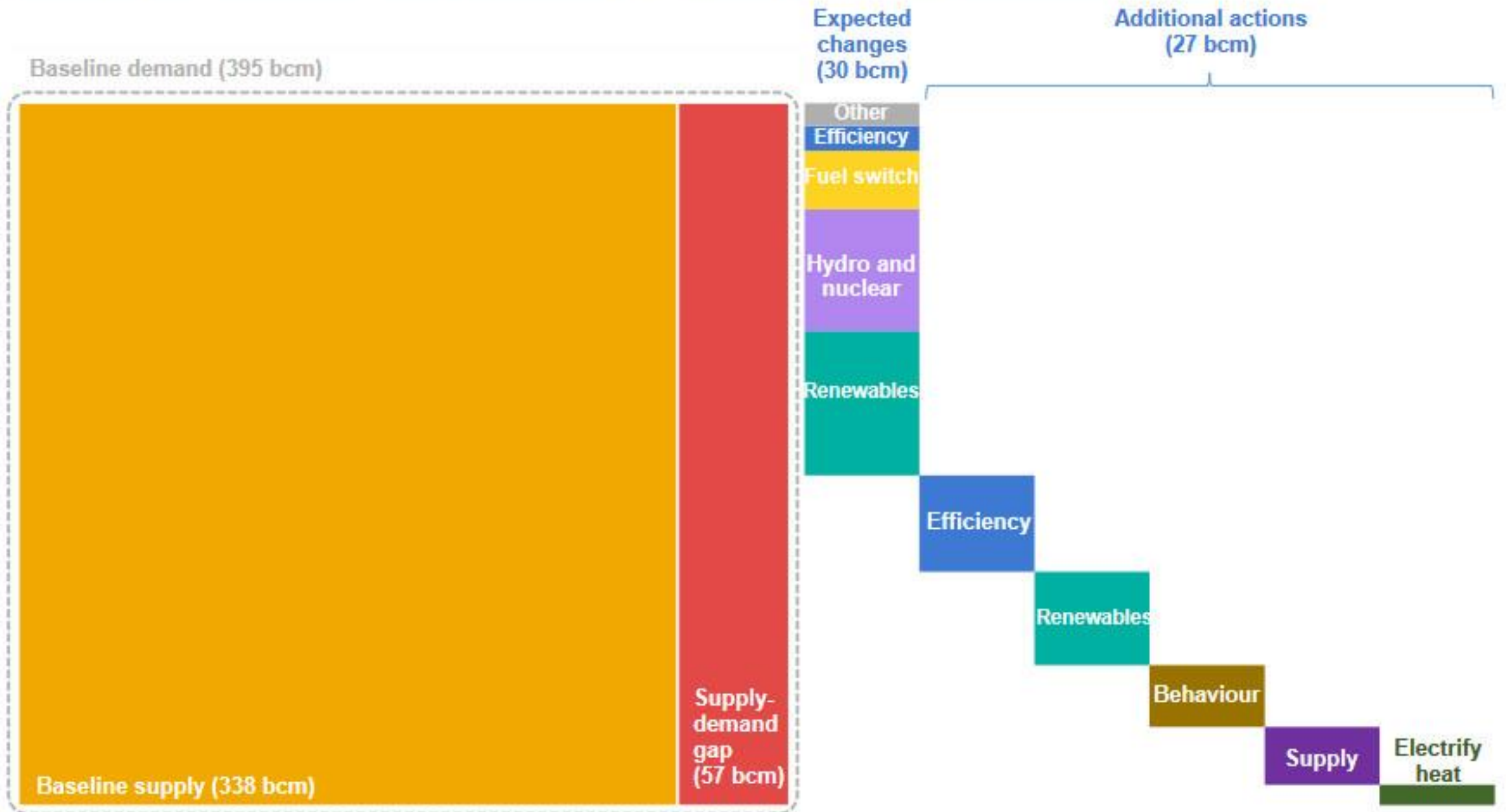


45% consumi gas nel settore civile  
35% consumi gas termoelettrico

Tabella 1: Consumi annuali ripartiti per settore. Fonte: Snam.

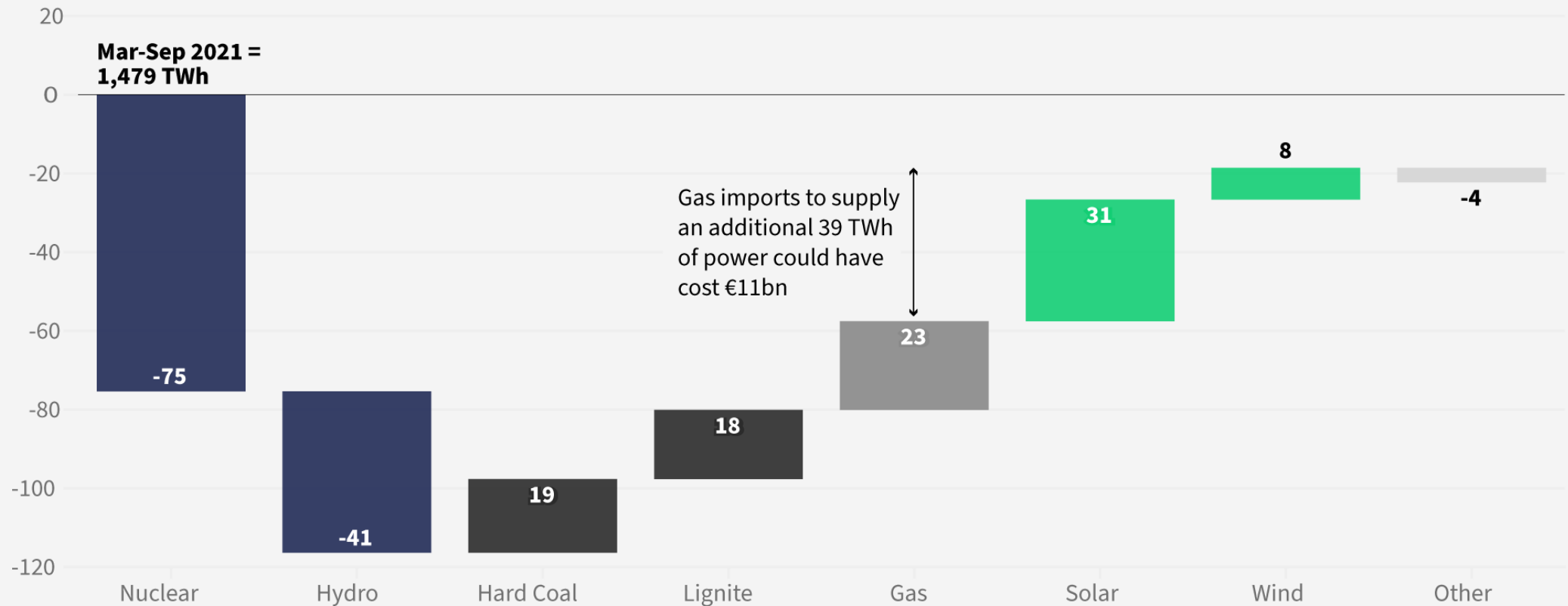
Miliardi di Smc	2019	2020	2021
Usi civili	31,6	30,8	33,3
Industriale	14,0	13,2	14,1
Termoelettrico	25,8	24,4	25,9
<b>TOTALE ITALIA</b>	<b>71,4</b>	<b>68,4</b>	<b>73,3</b>

# Expected changes and additional actions to close the supply-demand gap in the European Union in 2023



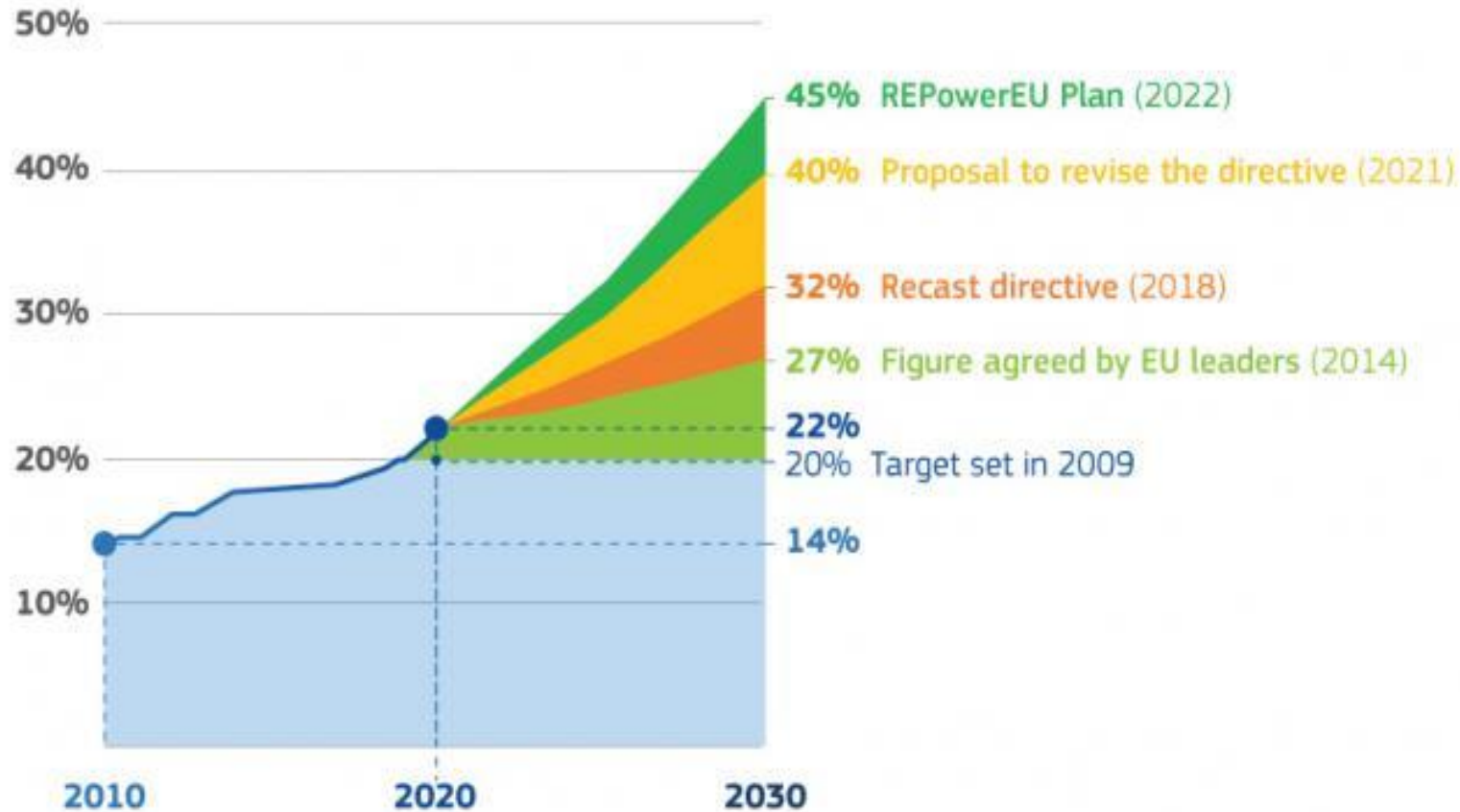
# Growth in EU electricity generation from wind and solar has avoided €11bn in gas imports since Russia's invasion of Ukraine

Change in EU electricity generation for Mar-Sep, 2022 vs 2021 (terawatt hours)



Source: Ember  
Other includes bioenergy, other renewables and other fossil fuels

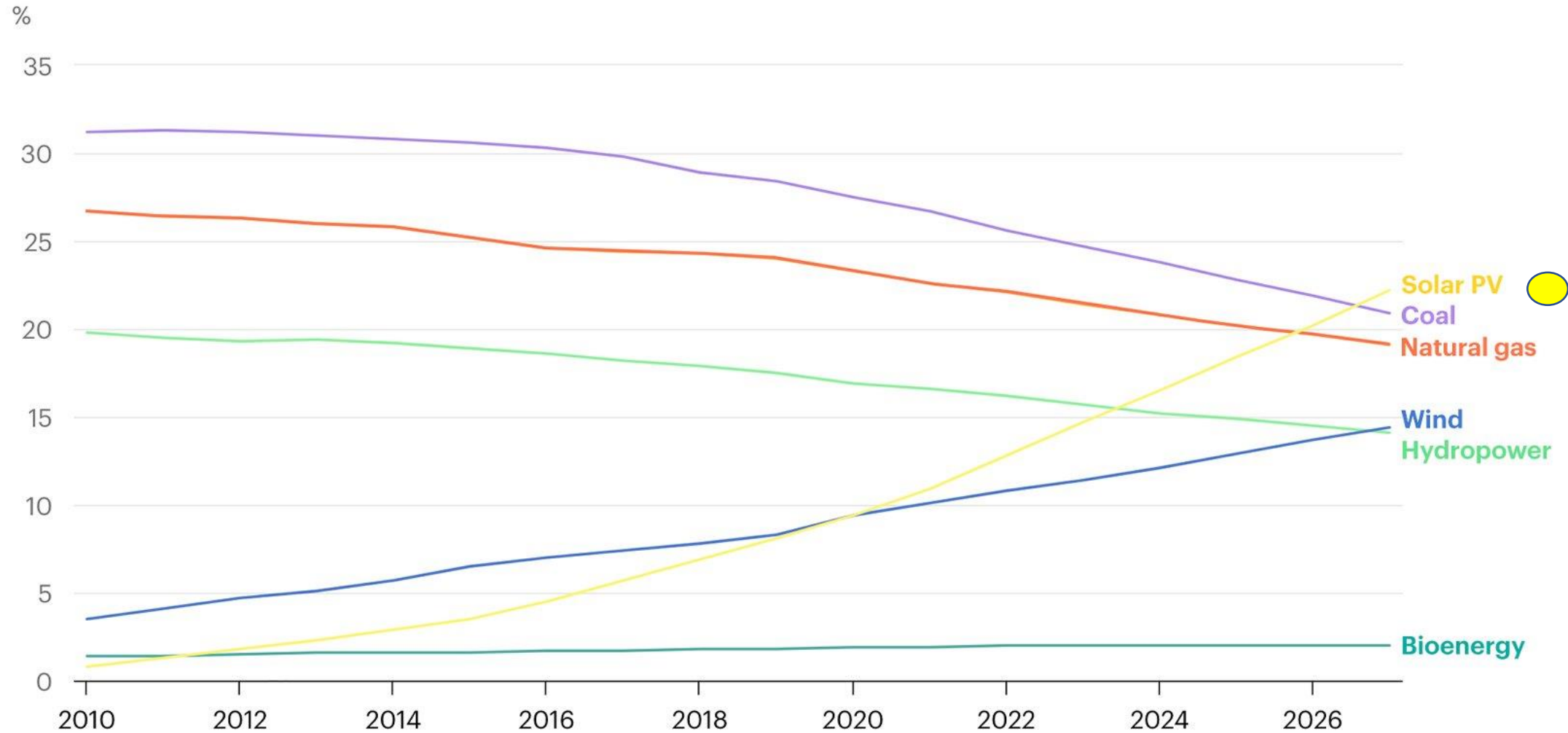
## Evolution of renewable energy targets



Raising to 45%  
the EU target  
would save 200  
bn € in gas

# Share of cumulative power capacity by technology, 2010-2027

Renewables 2022



## European Green Deal: "The status quo is not an option"



**75%**

75% of the European building stock is energy inefficient



**97%**

97% of the buildings in the EU require modernization



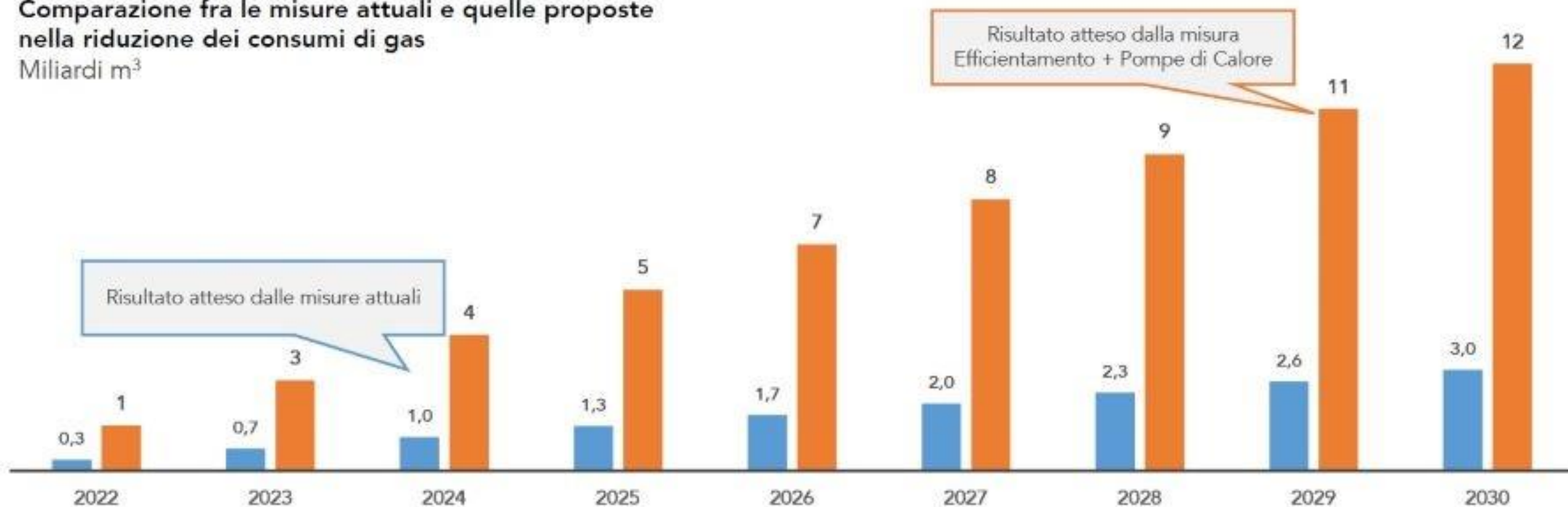
**< 1%**

Less than 1% of the building stock in the EU is renovated each year – the target is a renovation rate of 2%–3% annually

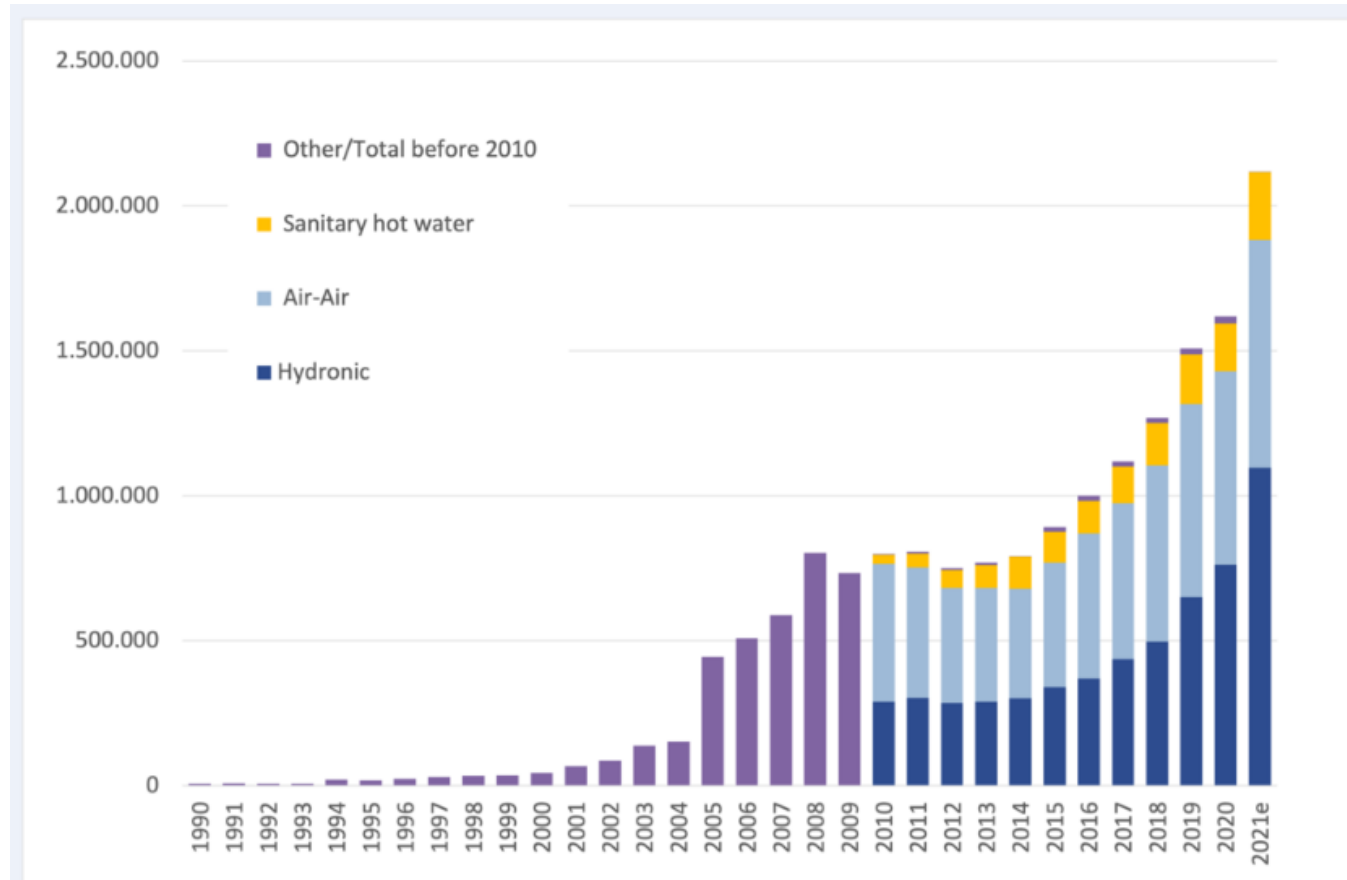


# Accelerazione delle misure di efficientamento e pompe di calore (al 2030 quadruplicazione dei tagli di metano)

Comparazione fra le misure attuali e quelle proposte  
nella riduzione dei consumi di gas  
Miliardi m<sup>3</sup>

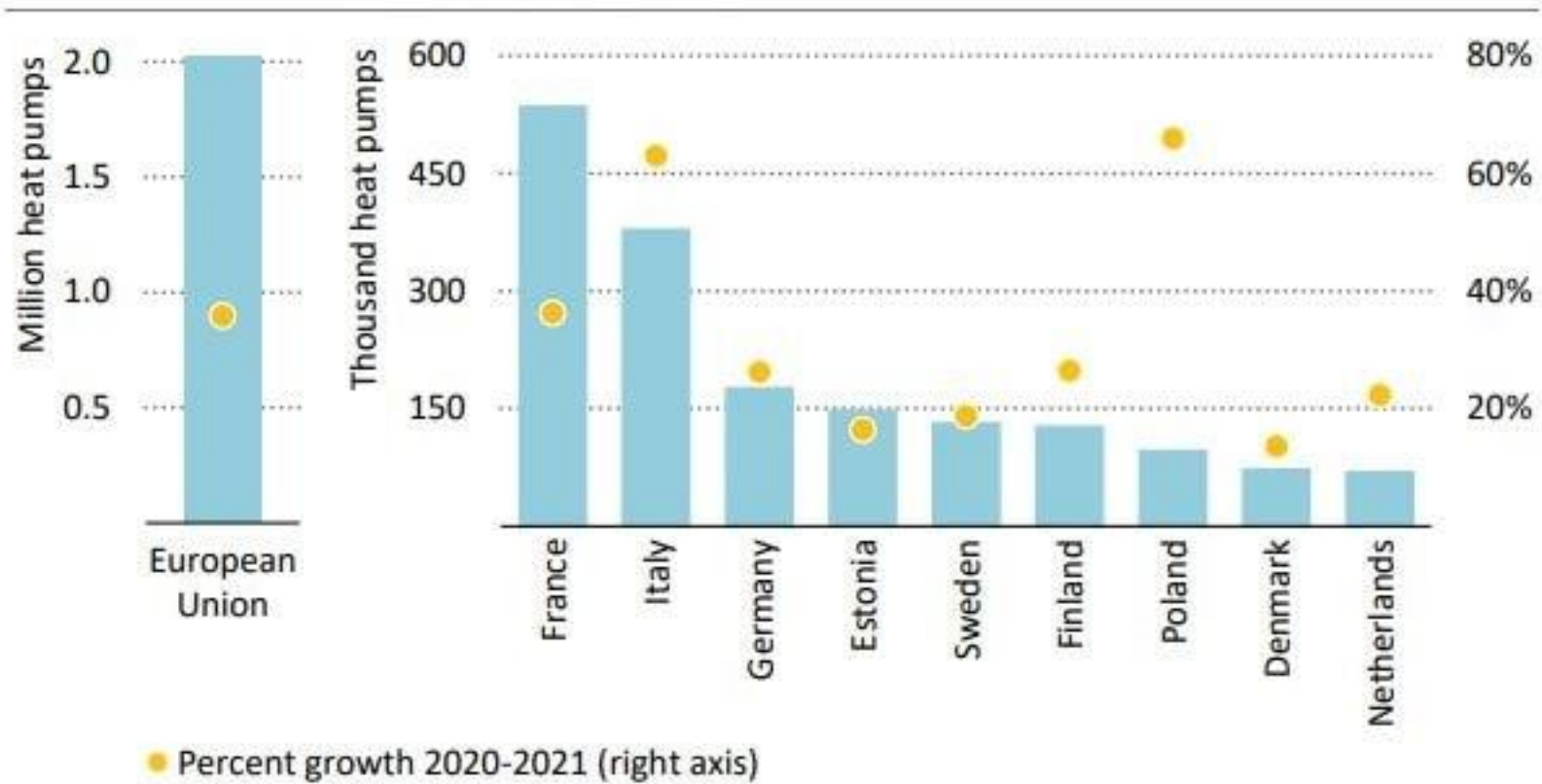


# Crescita delle vendite di pompe di calore in Europa



*Heat pump sales in Europe in 2021, by technology*

**Figure 1.13** ▶ Heat pump sales and growth in the European Union and selected member countries, 2021



IEA. CC BY 4.0.

*Heat pump sales across the European Union grew by around 35% to 2 million in 2021, fuelled by strong policy support in countries including France, Italy and Poland*

Si va verso un  
progressivo abbandono  
dell'impiego del gas  
nell'edilizia

## EUROPEAN POLICIES ON GAS BOILERS

### 1. U.K.

Ban on gas and oil boilers in new homes from 2025.

### 2. BELGIUM

Ban on fossil heating systems in newbuilds from 2025 in Flanders.

### 3. NETHERLANDS

Ban on new natural gas connections since 2018.

### 4. FRANCE

De-facto ban on gas boilers in new homes from 2022 due to introduction of emissions limits.

### 5. GERMANY

De-facto ban on new fossil-powered heating system via a requirement of 65% renewables input from 2024.

### 6. AUSTRIA

Sale of new gas boilers, and repair of old ones, banned from 2023.

### 7. DENMARK

Ban on new gas boilers since 2013. Plan to move 50% of households using gas heating to district heating by 2028.

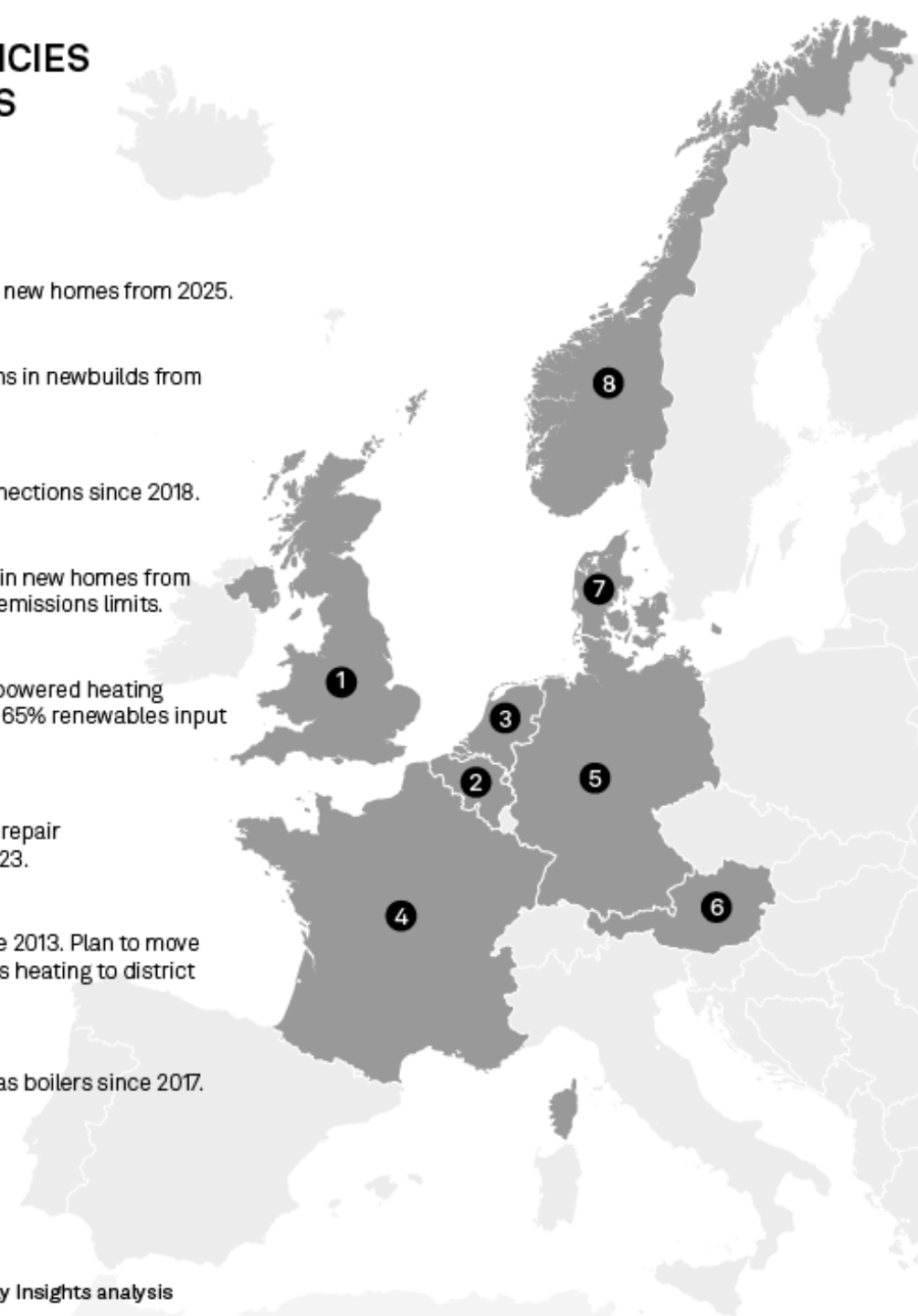
### 8. NORWAY

Ban on installation of new gas boilers since 2017.

Data as of June 27, 2022.

Map credit: Zain Ullah

Source: S&P Global Commodity Insights analysis







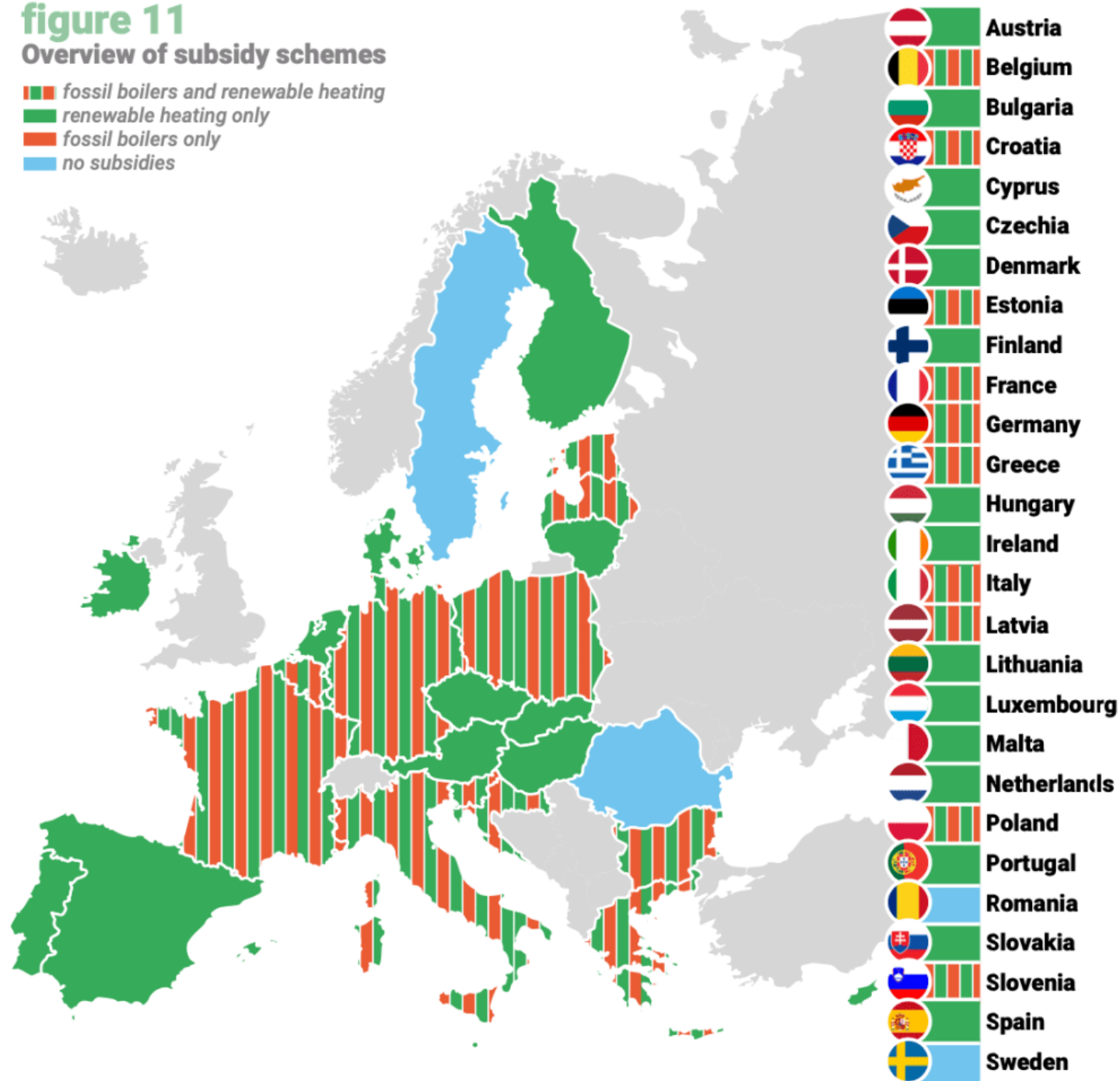
Incentivi ai sistemi di riscaldamento

In verde i paesi che favoriscono solo le rinnovabili

**figure 11**

**Overview of subsidy schemes**

-  fossil boilers and renewable heating
-  renewable heating only
-  fossil boilers only
-  no subsidies



# European Commission's Renovation Wave Strategy

Passare progressivamente da un tasso annuo di riqualificazione energetica dell'edilizia dall'1% ad almeno il 2%



# ENERGIESPRONG

Net Zero Energy



# Sfide in Italia

Attenzione all'aspetto sismico e al raffrescamento

Circolarità dei componenti e delle soluzioni

Accelerazione del numero delle riqualificazioni spinte

Nuovi modelli economico-finanziari

Espandere la industrializzazione della riqualificazione edilizia

Ruolo dei Comuni virtuosi

Creare un nuovo comparto industriale

Introdurre nel PNRR risorse per qualificare nuovo settore industriale

Grazie a Edera è partita anche nel nostro paese un'azione di sensibilizzazione dell'approccio innovativo **Energiesprong**