

IENE - 27th Annual National Energy & Development Conference

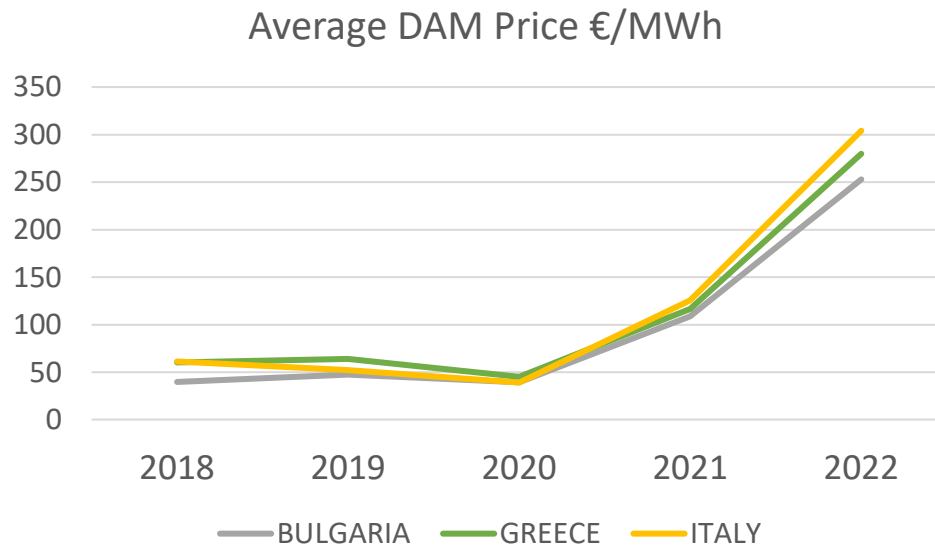
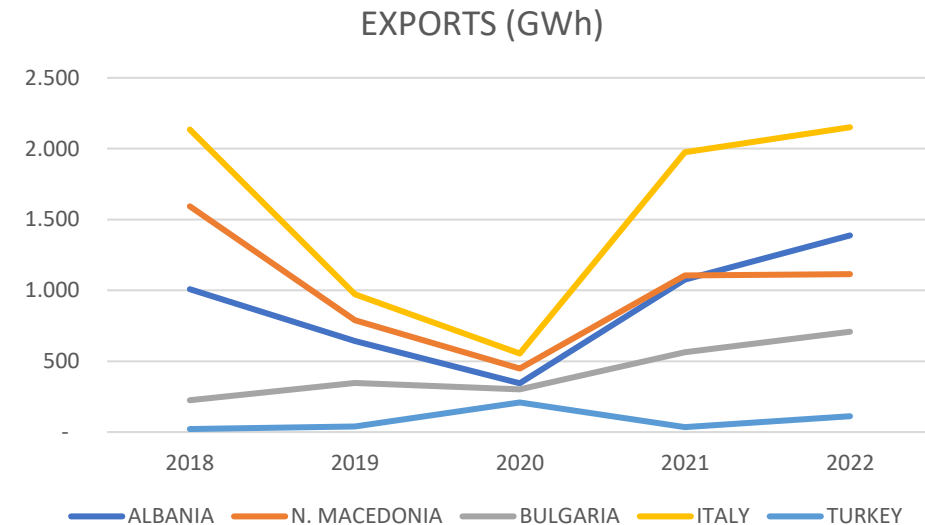
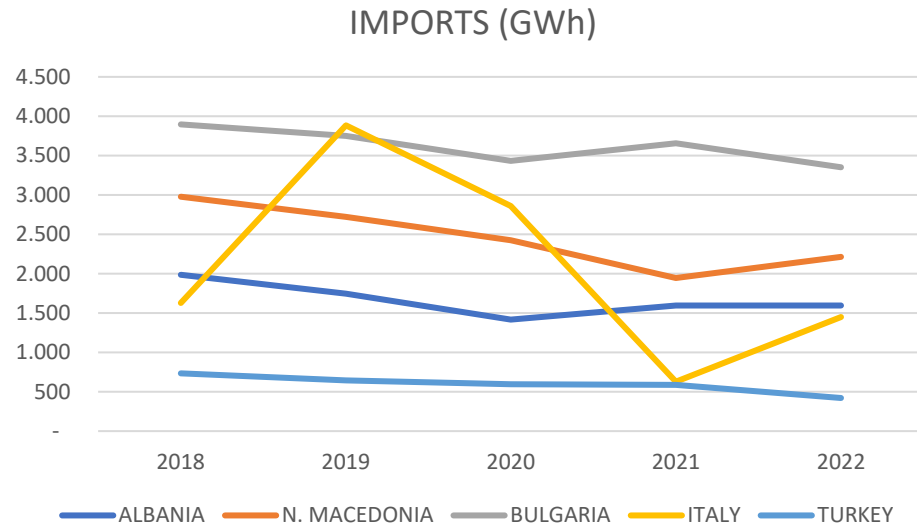
Overview of Electricity Markets in SE Europe

Vasileios Gkountis, Director, Market Management



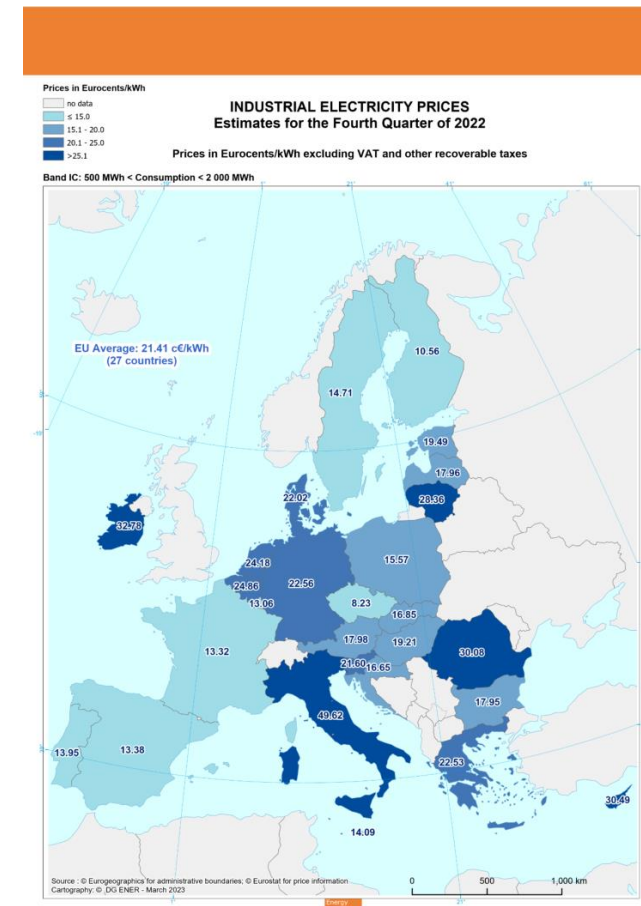
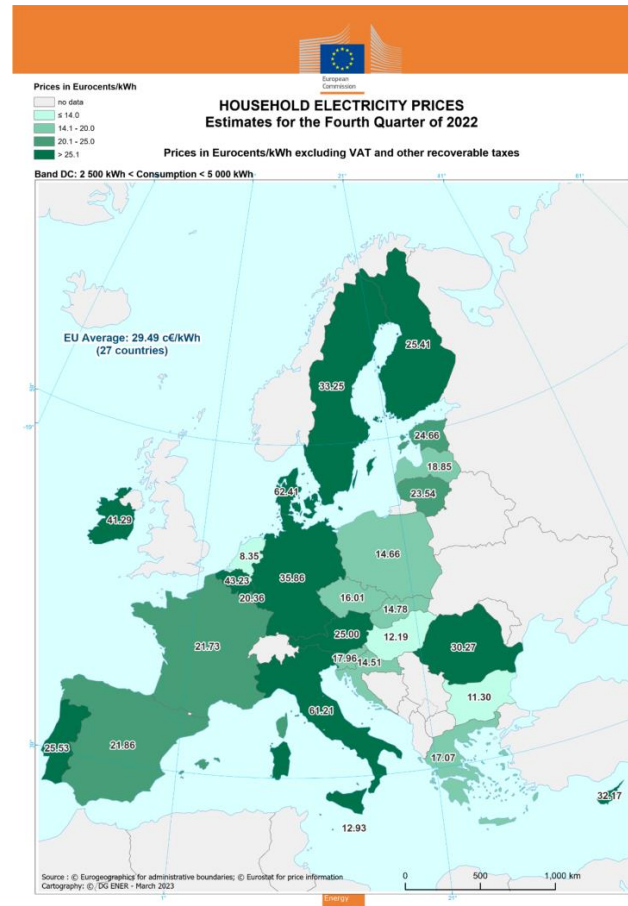
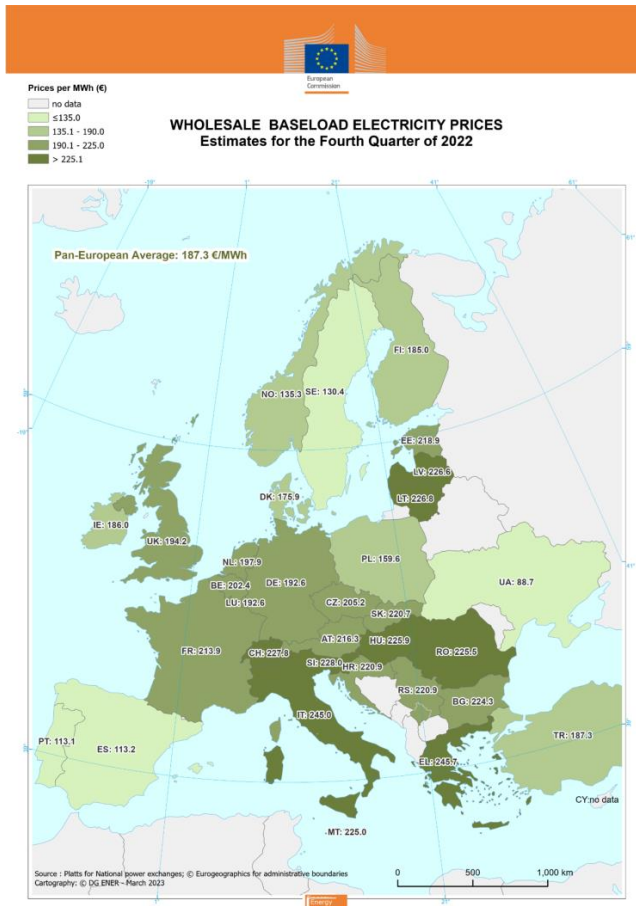
Interconnection Impots – Exports

Annual Changes and Trends



- Greece traditionally an importing country
- Annual trend of imports:
 - slight but steady decrease for the northern interconnections
 - Greece-Italy interconnection: decreasing with high variability.
- Annual trend of exports:
 - Exports clearly on the rise after 2020.
 - Key driver of this change is the increased penetration of RES in Greece.

Electricity Prices in Europe – Q4/2022



Average Wholesale Price: Europe: 187.3 €/MWh. Greece: 245.7 €/MWh (+31%)

Average Household Consumer Price (2.5-5 MWh): Europe: 29.49 c€/kWh. Greece: 17.07 c€/kWh (-42%)

Average Industrial Consumer Price (500-2000 MWh): Europe: 21.41 c€/kWh. Greece: 22.53 c€/kWh (+5%)

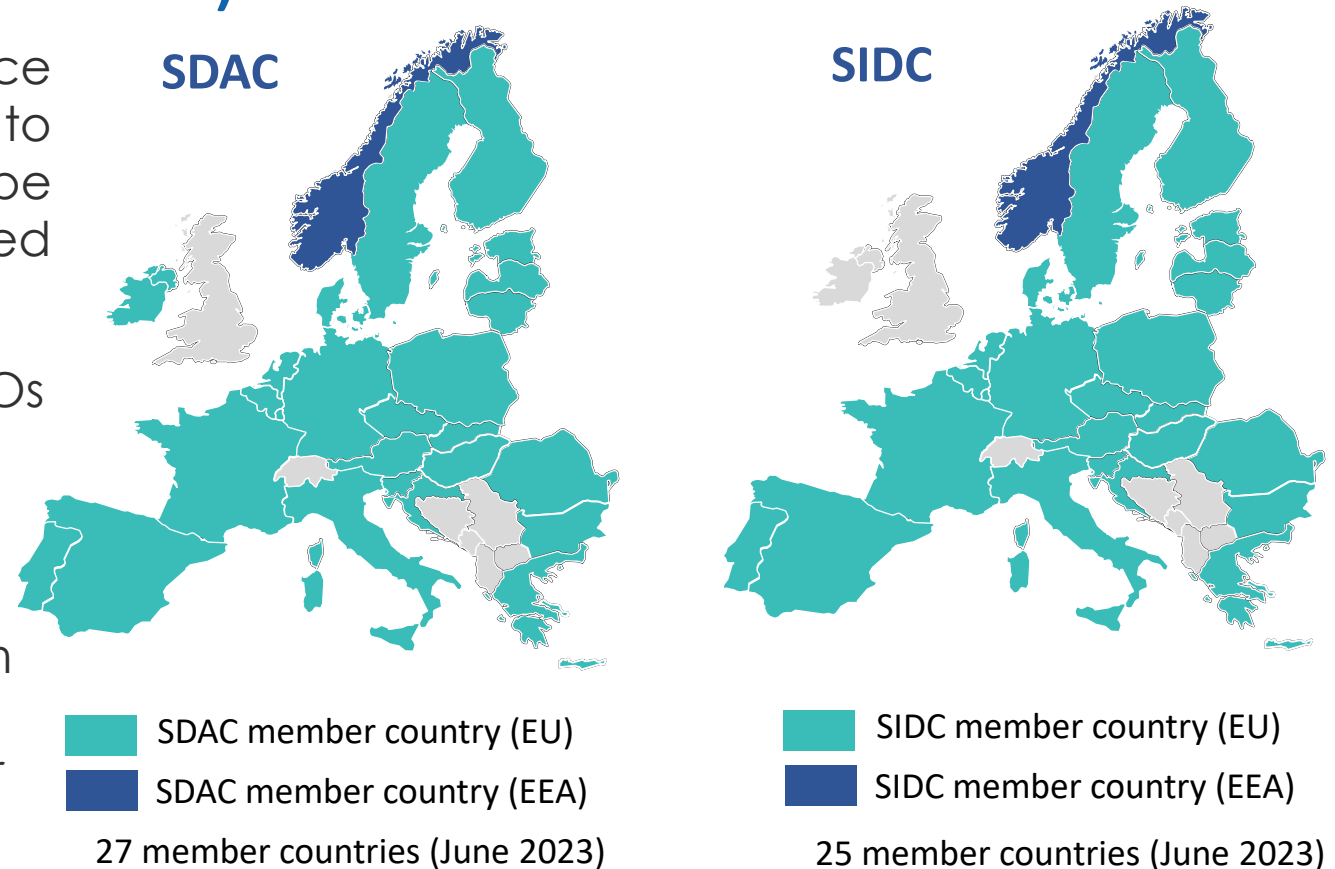
Single Day Ahead Coupling (SDAC) & Single Intraday Coupling (SIDC)

The SDAC makes use of a common price coupling algorithm, called PCR EUPHEMIA, to calculate electricity prices across Europe and to implicitly allocate auction-based cross-border capacity.

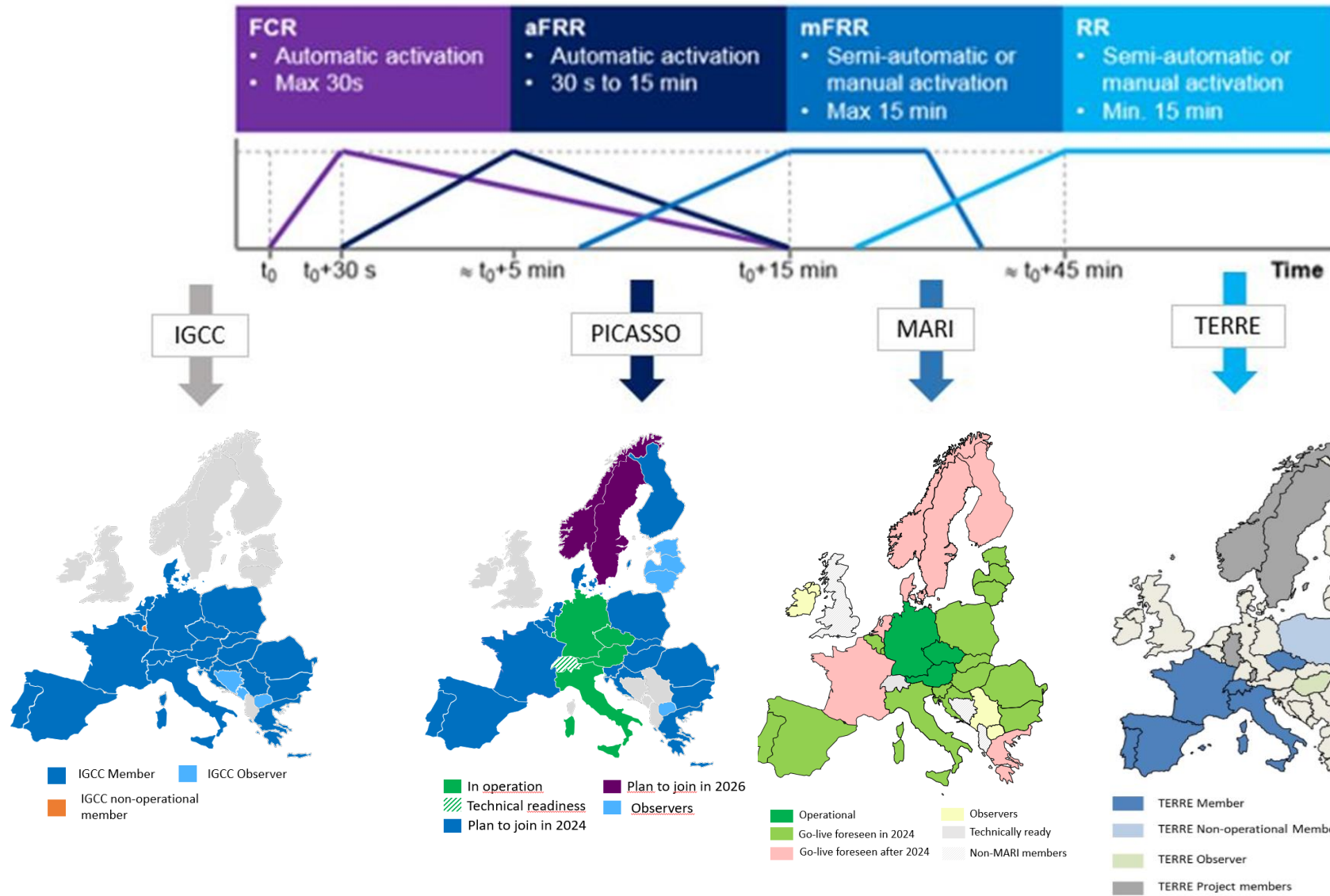
The project includes **27** countries with 32 TSOs and **17** NEMOs that so far cover **61** bidding zones in two operational projects.

Single intraday coupling (SIDC) uses one common information technology (IT) system to continuously perform adjustments in market participants' positions until one hour before delivery time, considering available CZC across Europe.

With the go-live of the 4th wave of SIDC of Greece and Slovenia in November 2022, **25** countries are operational with at least one border



European Platforms At a Glance



IPTO participates in the European IGCC platform since June 2021

IPTO is an active member of the European platforms MARI and PICASSO

Historical evolution of IGCC

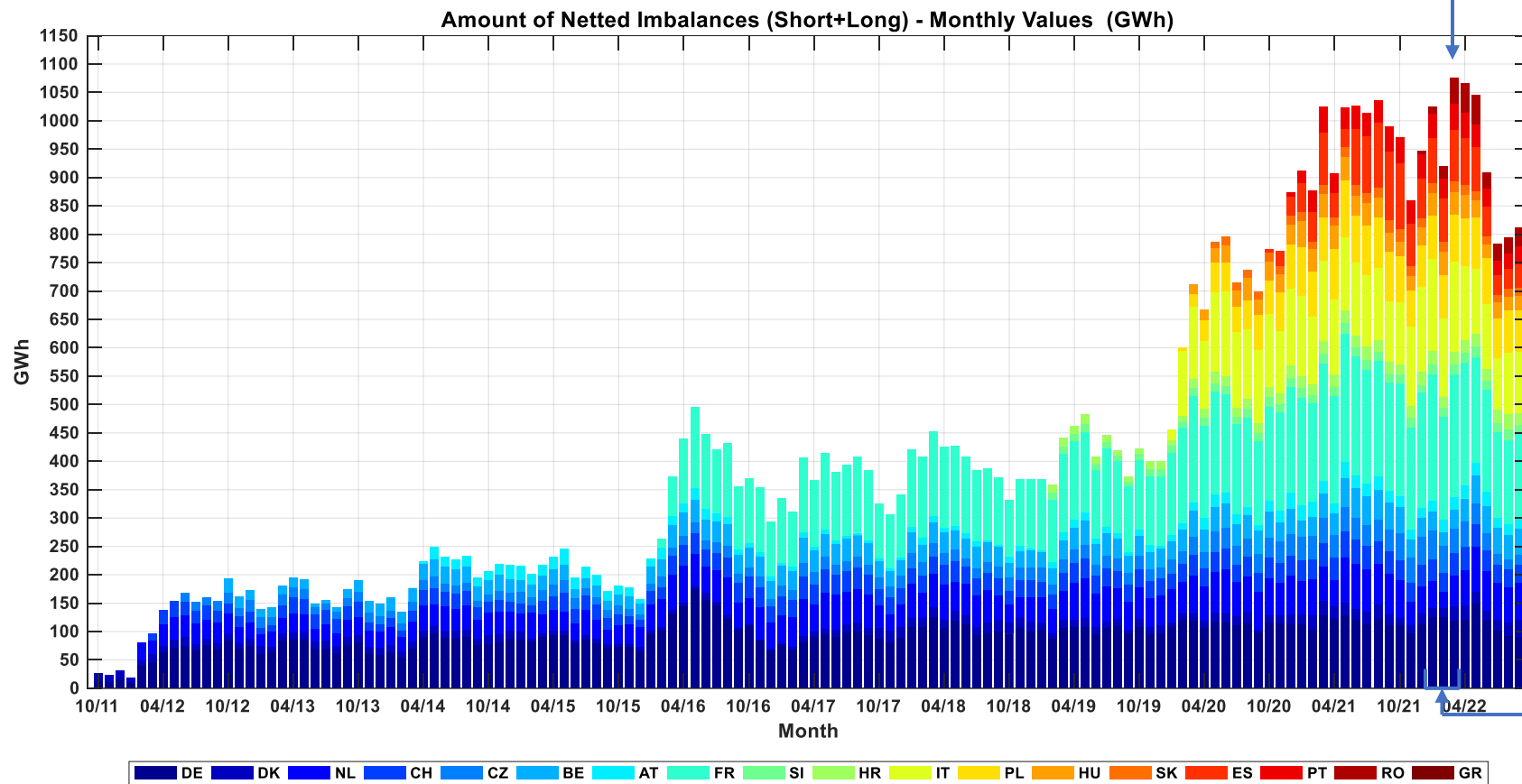
Introduction

- The International Grid Control Cooperation (IGCC) is the implementation project chosen by ENTSO-E in February 2016 to become the European Platform for the imbalance netting process (IN-Platform) as defined by the guideline on electricity balancing ([EB GL Art. 22](#)).
- IGCC was launched in October 2010 as a regional project and has grown to cover **24** countries (**27** TSOs) across continental Europe, including all those that need to implement the IN-Platform according to the EB Regulation.



Historical evolution of IGCC

Amount of Netted Imbalances

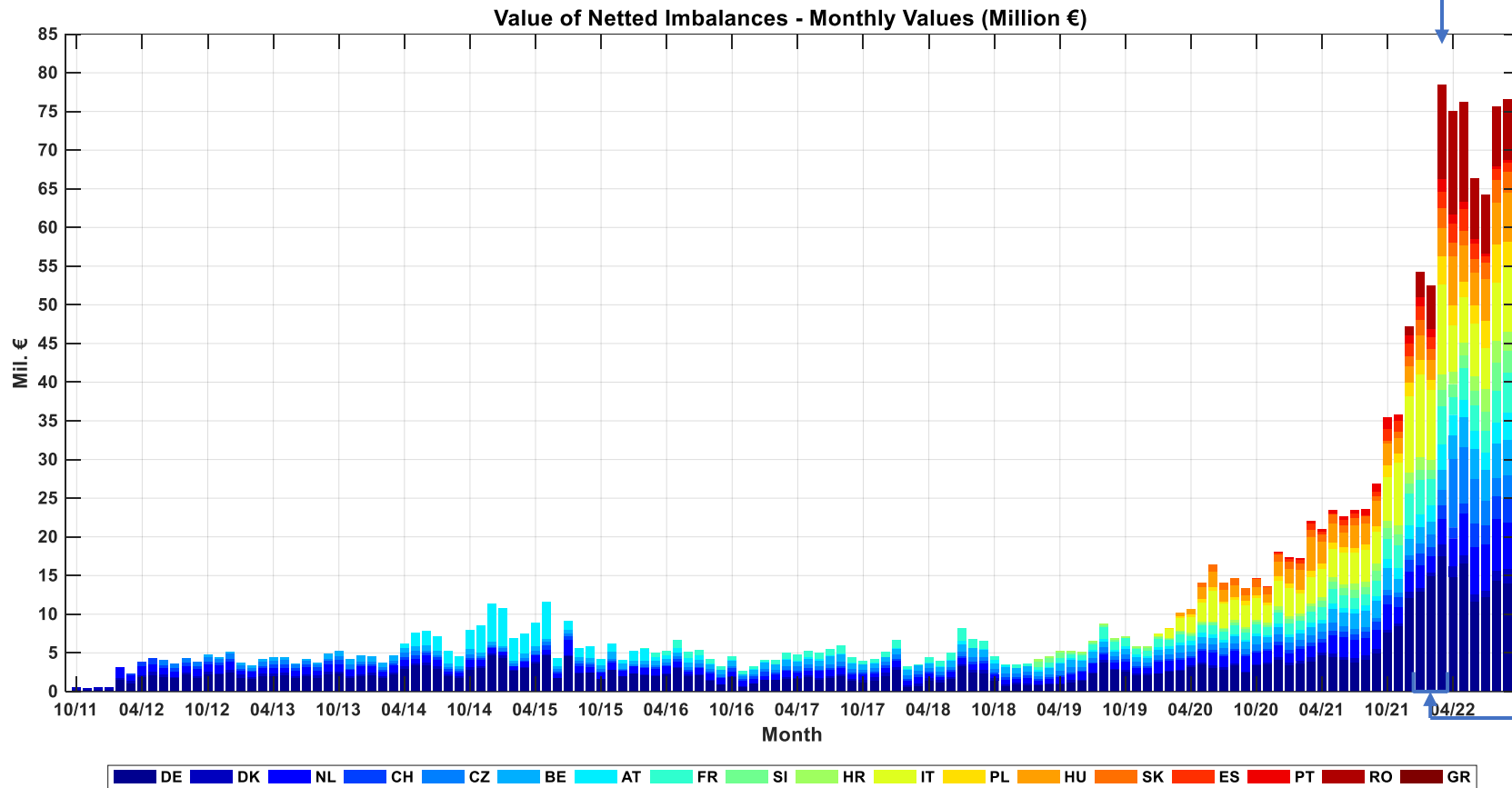


New record of monthly value amount of netted imbalances: more than 1 TWh in March 2022

The quarterly energy savings in Q1 2022 have reached 3021 GWh

Historical evolution of IGCC

Value of Netted Imbalances









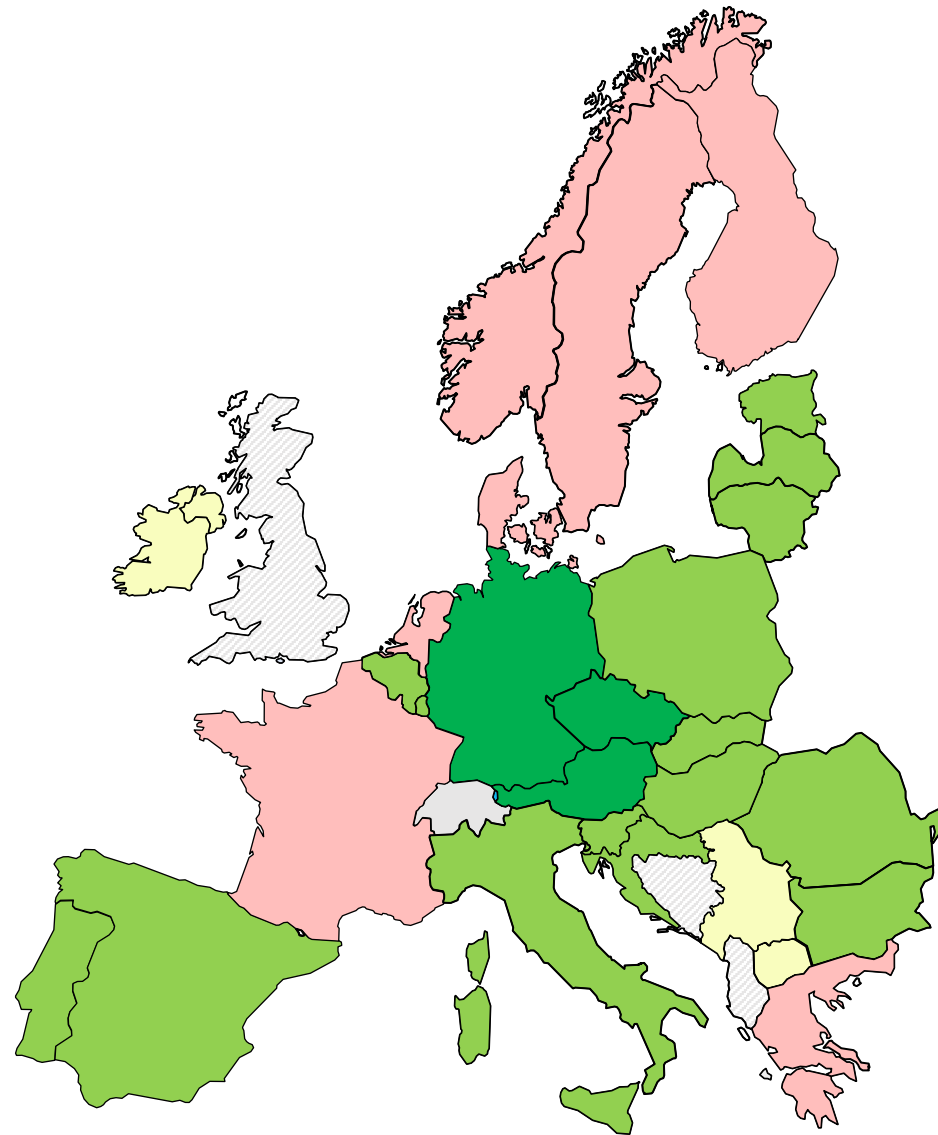
New record of monthly value amount of netted imbalances: nearly 80 million € in March 2022

Aggregated savings: surpassed 1.5 billion € savings.

The value of quarterly savings in Q1 2022 has reached 217.61 million €

MARI accession roadmap

-  Operational
-  Go-live foreseen in 2024
-  Go-live foreseen after 2024
-  Observers
-  Technically ready
-  Non-MARI members



Thank you



INDEPENDENT POWER
TRANSMISSION
OPERATOR