# The Greek power market evolution

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# Agenda

**Overview** 

**Market Developments** 

**Spot Market** 

**Forward Market** 

**Regulatory Framework** 

## Overview

#### December 2020

 Greece coupled with SDAC

### May 2021

 Bulgaria coupled with SDAC

Interconnection with Albania, North Macedonia, Turkey



Source: ENTSO-E

### DAM: Greece Vs other EU countries

#### Greece

- Mandatory participation
- Unit based bidding
- Coupling only with Italy and Bulgaria





#### Other EU countries

- Optional participation
- Portfolio bidding
- Strong coupling with multiple countries
- Multiple NEMOs (e.g Nordpool &EPEX)

## Interconnection of Crete

Non interconnected

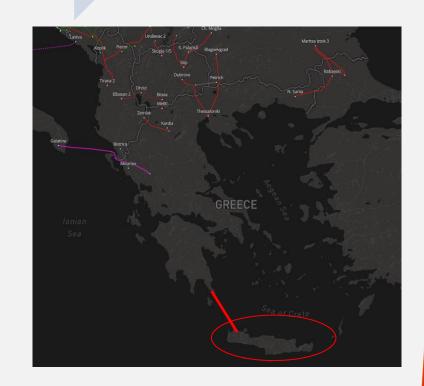
#### 1<sup>st</sup> Phase

• Hybrid model of operation

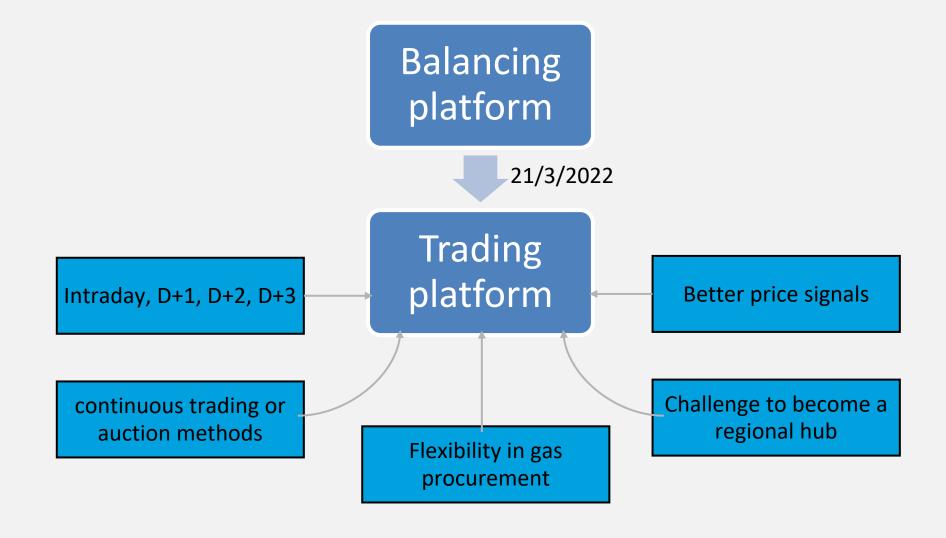
#### 2<sup>nd</sup> Phase

• Full implementation

- 1<sup>st</sup> phase implementation on 1/11/2021, covering 35% of load
- Security of supply
- Reduction of public service obligations for noninterconnected islands

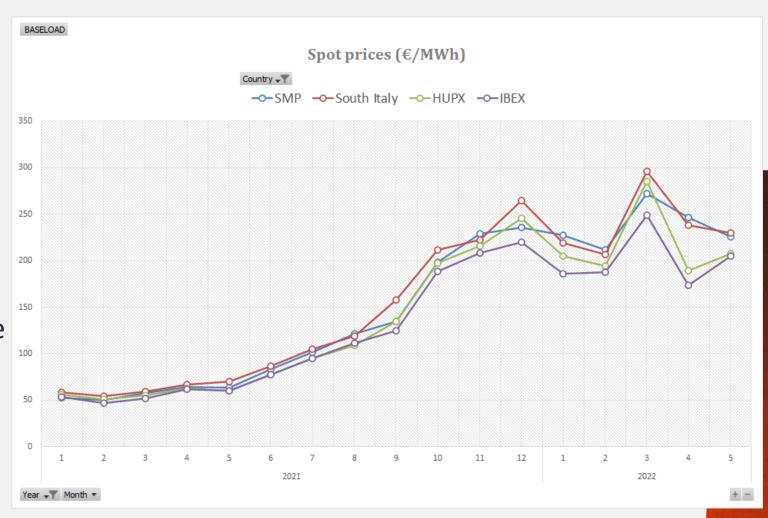


# Natural gas trading platform

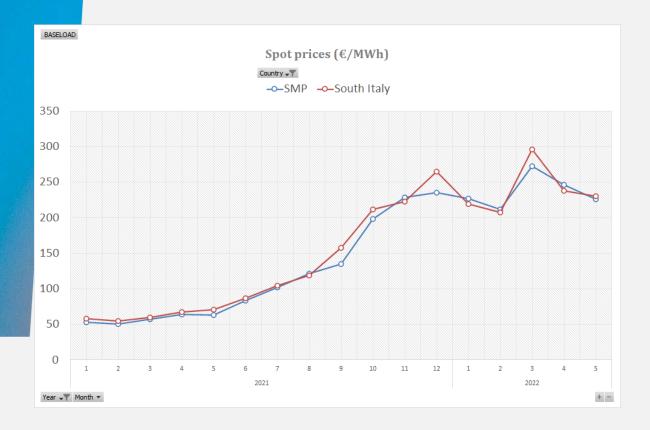


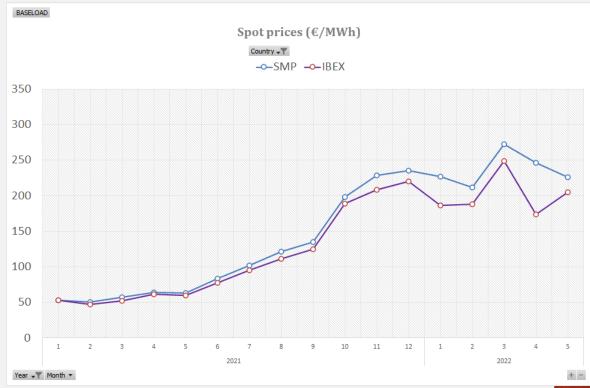
## Evolution of spot prices in SEE

- Prices increased by ~500% in 1 year
- Very high correlation between countries
- Spreads increased in absolute values
- Extreme volatility



# Coupling



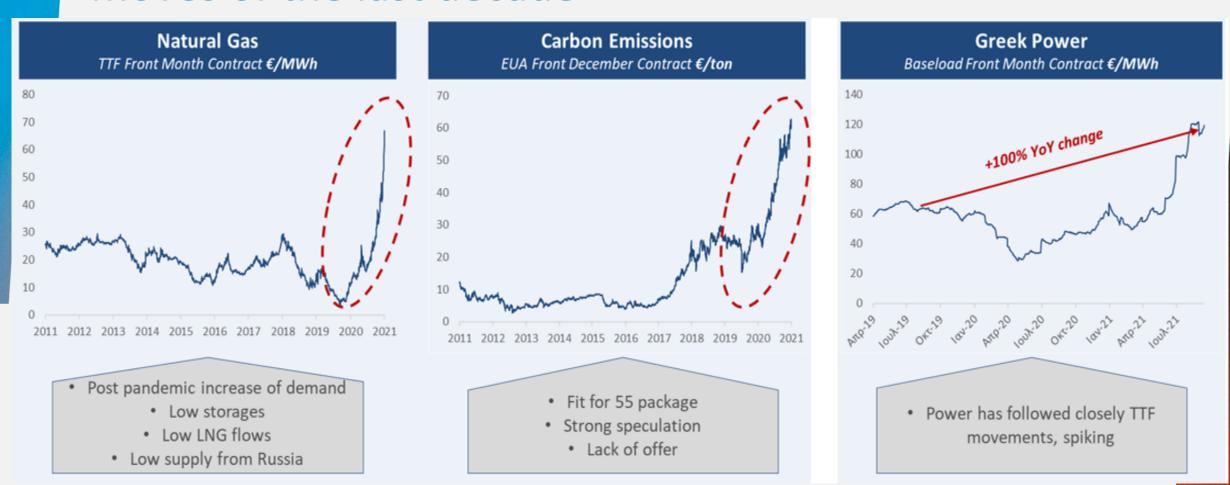


- Net flows from GR to IT
- Frequent interchanges
- Coupled 37,3%

- Net flows from BG to GR
- Coupled 53,4%
- Big spread

GR coupled 2/3 of dispatch hours

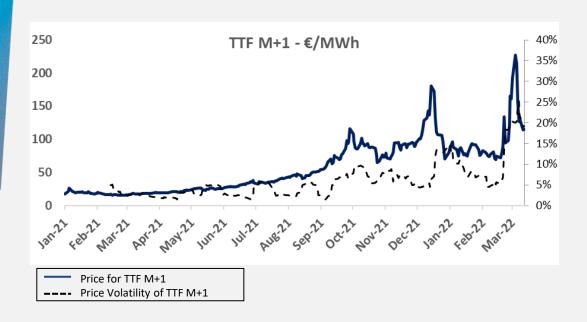
# Challenge for 2021: Markets experienced the biggest moves of the last decade

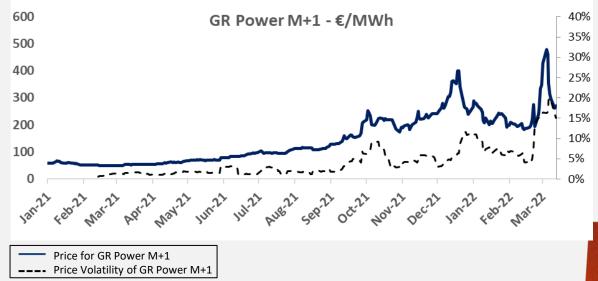


...until the next one

# Additional challenge for 2022: price volatility

- The challenge of 2021 was to manage price increases
- The challenge of 2022 is to cope with extreme price volatility

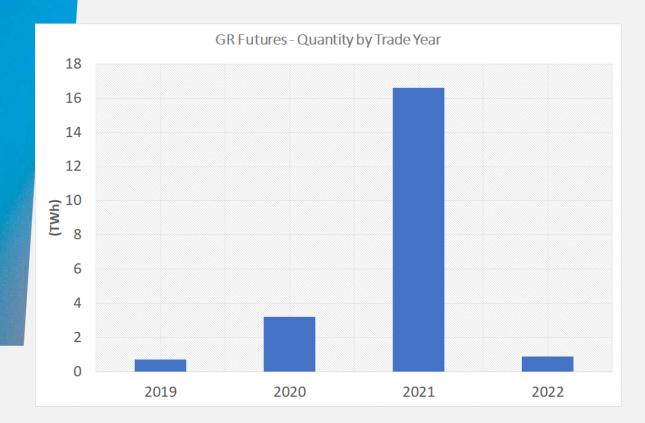


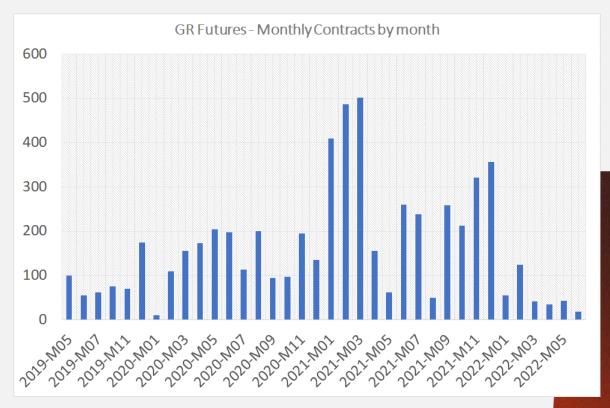


TTF futures changed by 141% in two weeks

GR power futures changed by 197% in two weeks

# Forward Market - Activity





#### **Results and future trend**

Forward market volumes in a steep uptrend over the last few years Trend reversed due to circumstances (?)

- Higher volatility
- Higher collateral requirements
- Companies' Traders' risk limits

# Forward Market - Market Making

#### What has been done so far?

PPC acts with the capacity of Market Maker in the forward market operated by HENEX since March 2020:

- M+1, M+2, Quarter +1, Cal+1 → base load
- M+1, Quarter+1, Cal+1→ peak load

#### **Benefits**

Offering hedging solutions to suppliers and generators in an environment with limited options

Giving price signals to the market

Market Maker continues to provide liquidity to the market, even under adverse conditions of high volatility

#### Results and future trend

Henex forward market remains illiquid.

Is there limited need for hedging (?)

# Next challenge?

Italy has proposed that EU member states cap the price of gas imports from Russia

the Commission proposes to provide Member States with €20 billion raised from auctioning allowances from the EU ETS held in the Market Stability Reserve (MSR)

(GR) Ministry to suspend wholesale adjustment clauses in bills

Spain approves cap on gas price to curb power bills

(GR) Remuneration cap for electricity producers

...coping with Regulatory Risk

Thank you for your attention.

**Any questions** 



