



1. Energy market overview

2. PPA Contracts

3. Capacity Market – UVAM

# EGO ENERGY

- Among top-trader in Italian PPA market (>1,2 billion Euro/year)
- 1'500 power plants inside portfolio = 3 GW dispatched
- 5 TWh/year physical production managed
- 30 TWh/year Guarantees of Origin (GO)
- **Demand-response** (150 MW qualified **UVAM**)
- Capacity Market (80 MW awarded 2022-2024)
- **Energy Services** (ESCO) energy-intensive customers Energy Audit, Monitoring, Energy Management, Efficiency
- **Hi-tech proprietary platform** for Digital Energy
- ▶ Energy IoT, Artificial Intelligence, E-Mobility



#### MAIN DATA FOR ITALIAN MARKET

➤ Electrical Energy Consumption: 320 TWh/year

Peak Demand: 60 GW

Average Demand: 36 GW

➤ Renewable Generation: **100 TWh/year** (2022)

Renewable Generation PNIEC target: 180 TWh/year (2030)

Updated PNRR target: >210 TWh/year

Natural Gas Consumption: 75 bcm/year

Dependency on natural gas: 43% primary energy consumption

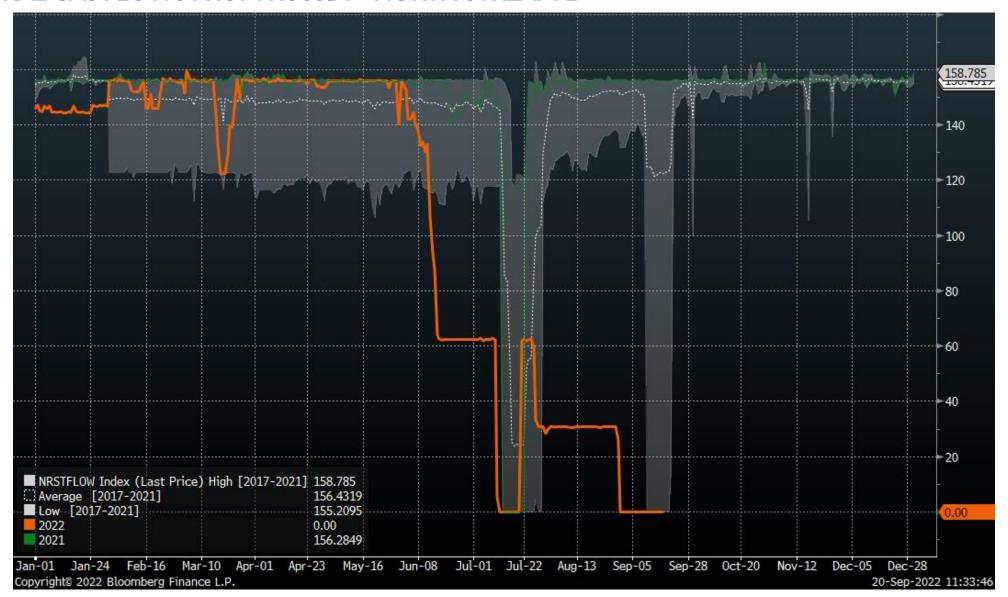
Russian Natural Gas: 30 bmc/year (40% of total)



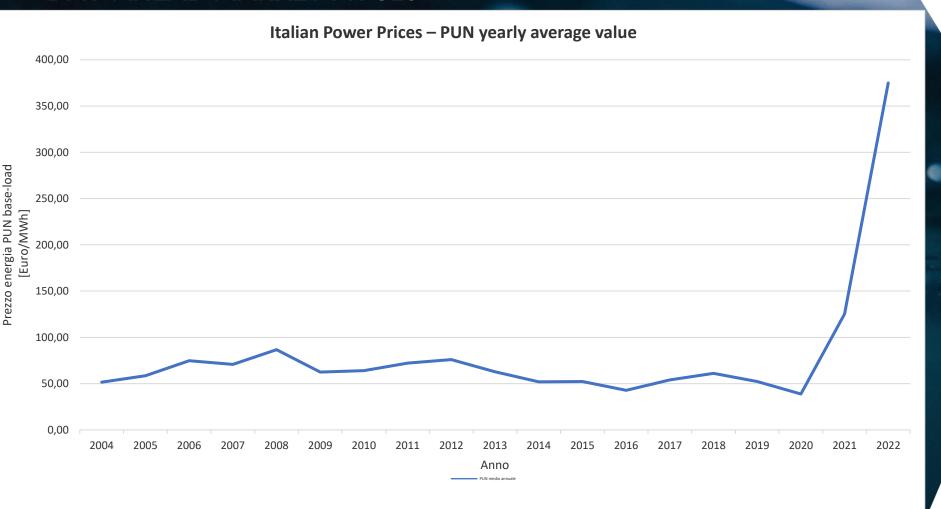
#### NATURAL GAS FLOWS FROM RUSSIA - GLOBAL



#### NATURAL GAS FLOWS FROM RUSSIA - NORTH STREAM 1



### **DAY-AHEAD MARKET PRICES**



Average Price Day-Ahead Market «PUN» base-load

2004-2020: 60,00

€/MWh

2021: 125,00 €/MWh

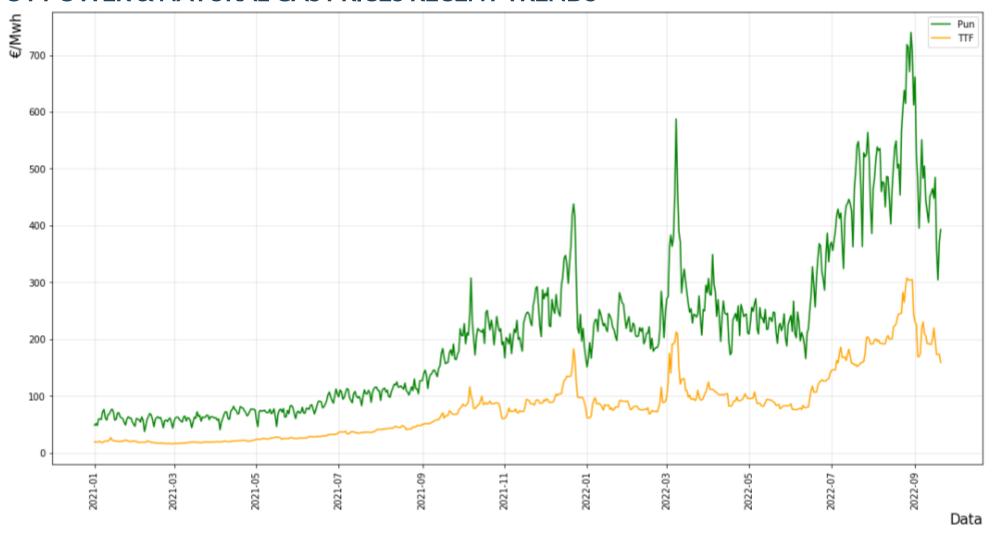


Average Price Day-Ahead Market «PUN» base-load

2022: 320,00 €/MWh

Present Spot-Price: 450,00 €/MWh

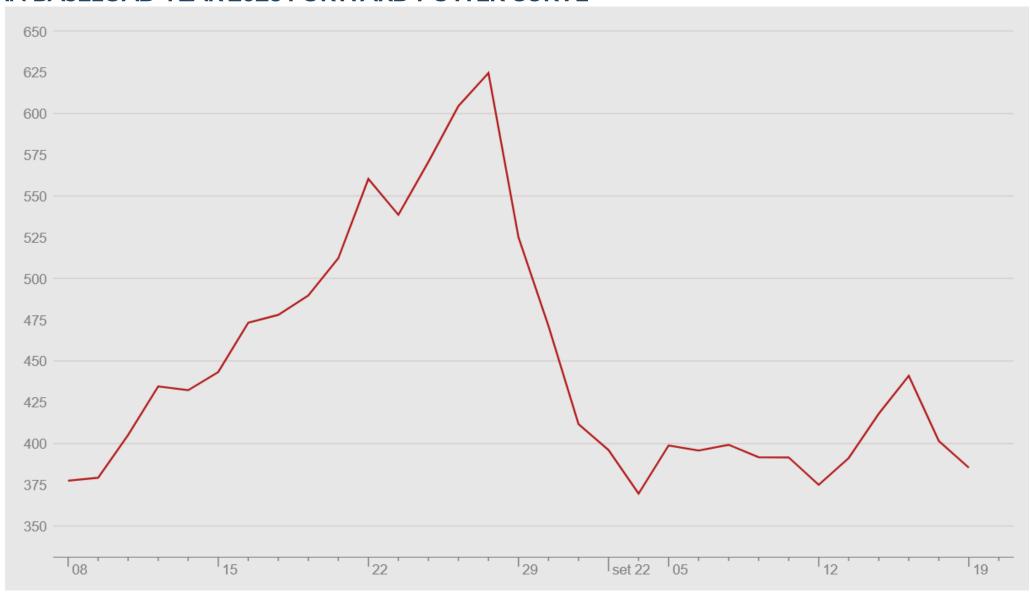
### **SPOT POWER & NATURAL GAS PRICES RECENT TRENDS**



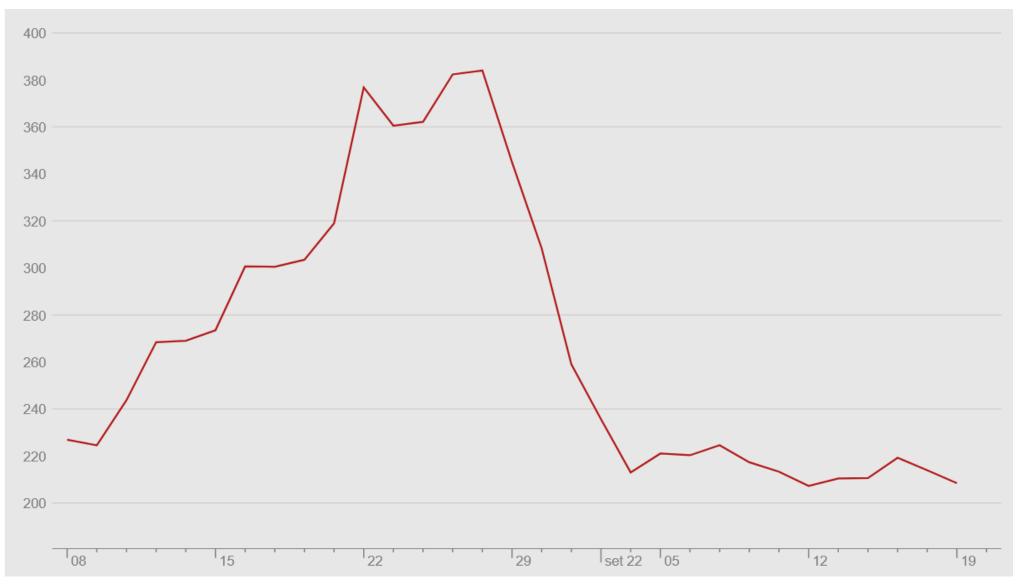
#### FORWARD GAS PRICES 2023-2025



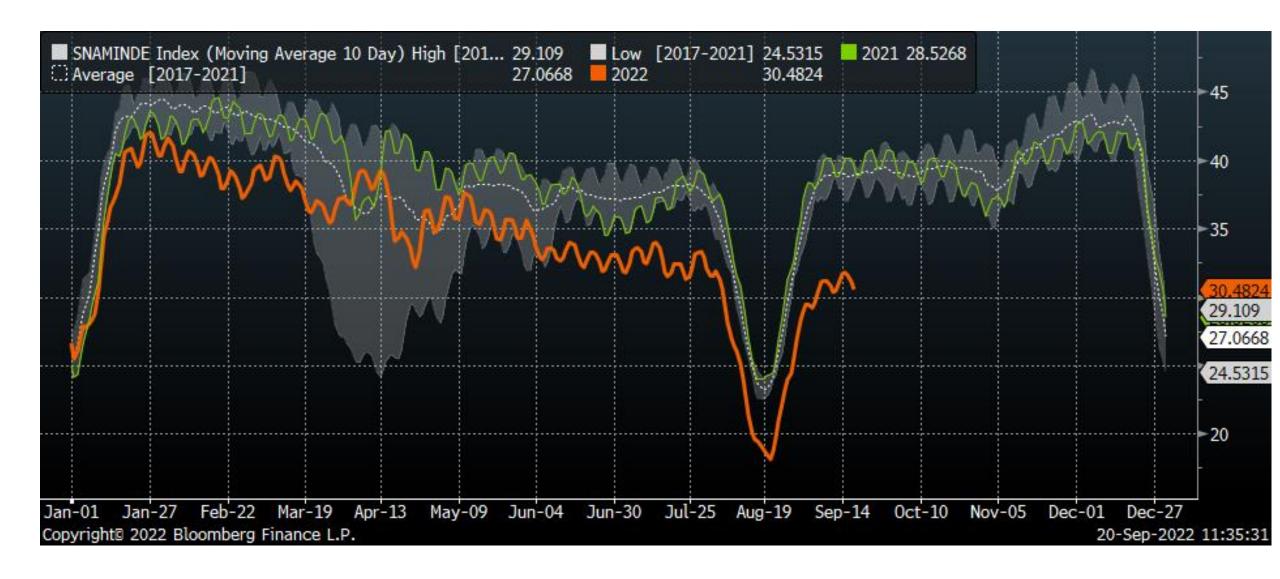
### ITALIAN BASELOAD YEAR 2023 FORWARD POWER CURVE



### ITALIAN BASELOAD YEAR 2024 FORWARD POWER CURVE



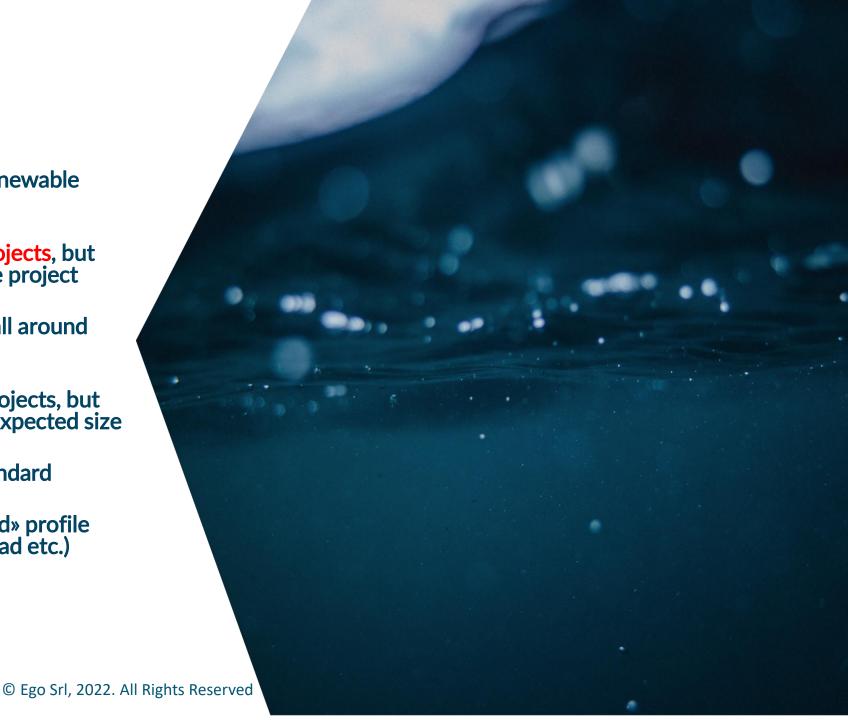
#### INDUSTRIAL GAS DEMAND «DESTRUCTION» - ITALY



## PPA CONTRACTS

### PPA MARKET (1/2)

- Long-term contracts related to renewable energy production
- Significant for «market-parity» projects, but more and more for any renewable project
- Many deals signed (various GW) all around Europe
- ➤ Italy misses real ready-to-build projects, but it's a main market for prices and expected size
- «As produced» formula Italian standard
- Possibile also to manage «standard» profile (adjusted solar PV profile, base-load etc.)



## PPA CONTRACTS

### PPA MARKET (2/2)

- Physical or Virtual (only financial settlement)
- > Trader, Utility or Corporate PPA
- > Strong price increasing (natural gas, CO2 etc.)
- Cannibalization risk to be evaluated
- Indicative value for PPA 10 years
  - May 2021: 45,00 Euro/MWh
  - December 2021: 60,00 Euro/MWh
  - July 2022: 80,00 Euro/MWh
- Very much depending on expected COD



# CAPACITY MARKET

#### **YEAR 2022 RESULTS**

> Existing Plants Premium: 33'000 Euro/MW/year

➤ New Plants Premium: **75'000 Euro/MW/year** 

> Renewable Power awarded capacity: 1 GW

	Esistente		Nuova	
Area	CDP accettata [MW/anno]	Premio di valorizzazione [€/MW/anno]	CDP accettata [MW/anno]	Premio di valorizzazione [€/MW/anno]
Nord	21.465	33.000	1.276	75.000
Centro Nord	1.272	33.000	49	75.000
Centro Sud	4.233	33.000	305	75.000
Sud	2.581	33.000	84	75.000
Calabria	3.185	33.000	0	75.000
Sicilia	1.878	33.000	53	75.000
Sardegna	144	33.000	0	75.000
TOTALE CDP	34.758		1.767	

Tabella 1: Quantità complessivamente accettata e premi di valorizzazione suddivisi per Area nazionale



## CAPACITY MARKET

#### YEAR 2023 RESULTS

- > Existing Plants Premium: 33'000 Euro/MW/year
- ➤ New Plants Premium: **75'000 Euro/MW/year**
- > Renewable Power awarded capacity: 1,3 GW
- Storage awarded capacity: 0,2 GW



Gli esiti dell'asta sul 2023 fig.1

## CAPACITY MARKET

#### YEAR 2024 RESULTS

- > Existing Plants Premium: 33'000 Euro/MW/year
- ➤ New Plants Premium: 70'000 Euro/MW/year
- > Renewable Power awarded capacity: 2,5 GW
- > Storage awarded capacity: 1,1 GW (0,5 GW in Sardinia)

Tabella 1: Quantità complessivamente accettata e premi di valorizzazione suddivisi per area nazionale - CDP esistente

	ESISTENTE			
Area	CDP Accettata [MW/Anno]	Premio di Valorizzazione [€/MW/Anno]		
CALABRIA	2.843	33.000		
CENTRO NORD	1.210	33.000		
CENTRO SUD	4.796	33.000		
NORD	20.423	33.000		
SARDEGNA NORD	176	33.000		
SARDEGNA SUD	1	33.000		
SICILIA	1.771	33.000		
SUD	2.933	33.000		
Totale	34.153			

Tabella 2: Quantità complessivamente accettata e premi di valorizzazione suddivisi per area nazionale - CDP Nuova

	NUOVA AUTORIZZATA		NUOVA NON AUTORIZZATA	
Area	CDP Accettata [MW/Anno]	Premio di Valorizzazione [€/MW/Anno]	CDP Accettata [MW/Anno]	Premio di Valorizzazione [€/MW/Anno]
CALABRIA	0		0	
CENTRO NORD	44	70.000	0	
CENTRO SUD	373	70.000	45	33.467
NORD	1.027	70.000	1.721	48.110
SARDEGNA NORD	0		247	51.012
SARDEGNA SUD	28	70.000	253	51.012
SICILIA	0		8	33.467
SUD	32	70.000	0	
Totale	1.504		2.274	

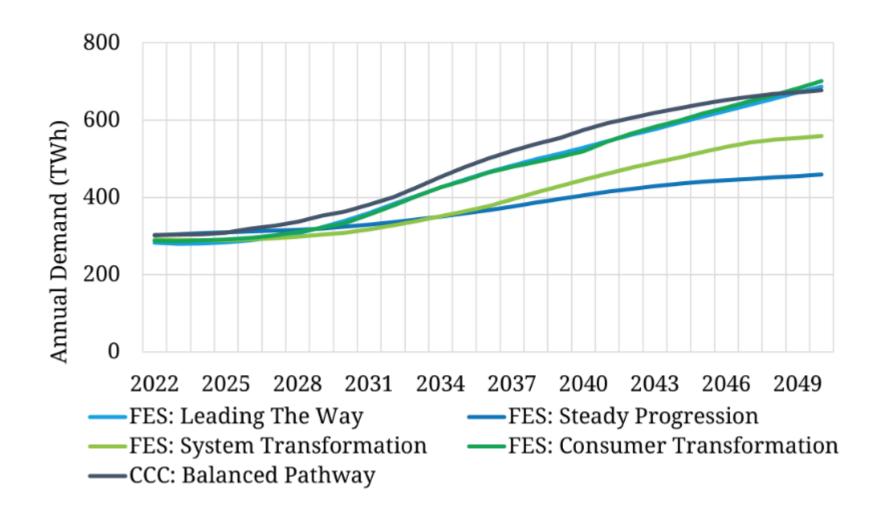
### UVAM

#### **YEAR 2022**

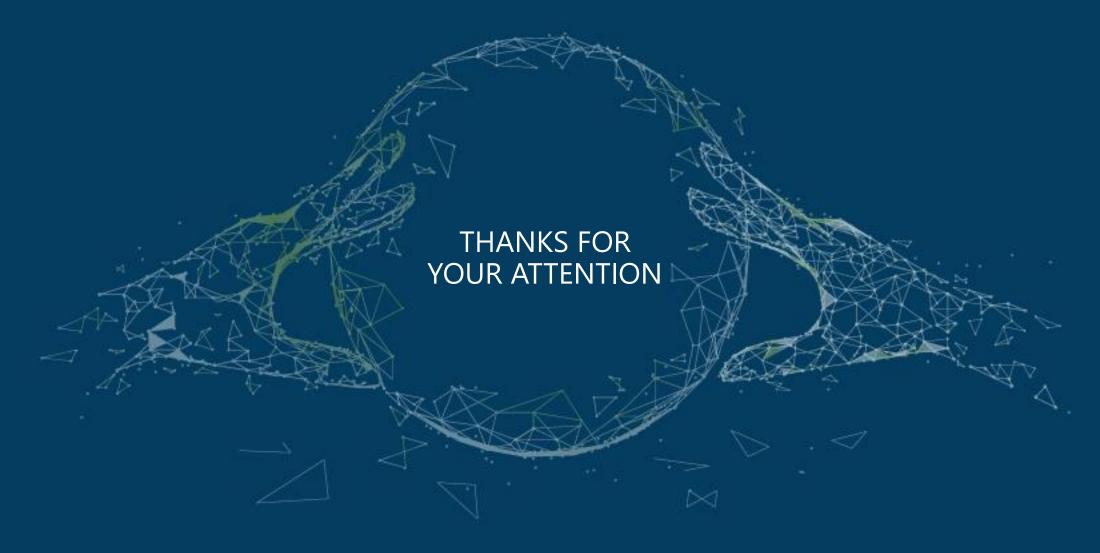
- > Possibility of participating to **Ancillary Services Market** for medium-size plants (< 10 MVA)
- > Flexibility towards the grid for production, consumption and storage units
- Virtual aggregation by means of a Balancing Service Provider (BSP)
- > Available Volume: 1'000 MW
- > Fixed Premium: 22'500 30'000 Euro/MW/year
- > Possible services: **3 hours** during afternoon (15.00-18.00) and **4 hours** during evening time (18.00-22.00)
- > Strike-price: 200 400 Euro/MWh

### ENERGY MARKET TRENDS

### POWER DEMAND PROJECTIONS - UK DATA (SOURCE: TIMERA)



- > Transport
  - 2030: +27 TWh/year2040: +96 TWh/year
- > Heat
  - 2030: +33 TWh/year2040: +53 TWh/year
- > Electrolyzers
  - 2030: +14 TWh/year2040: +59 TWh/year



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