The OMI Group in the EU electricity spot and forward market 16/09/2019

OMI - MAIN FEATURES

2. ENERGY UNION AND TRANSITION IN THE EU: THE IBERIAN EXPERIENCE



2.2 l REGULATORY FRAMEWORK IN AN EUROPEAN CONTEXT

3. THE EU ELECTRICITY SPOT AND FORWARD MARKET

OMI - MAIN FEATURES

1.

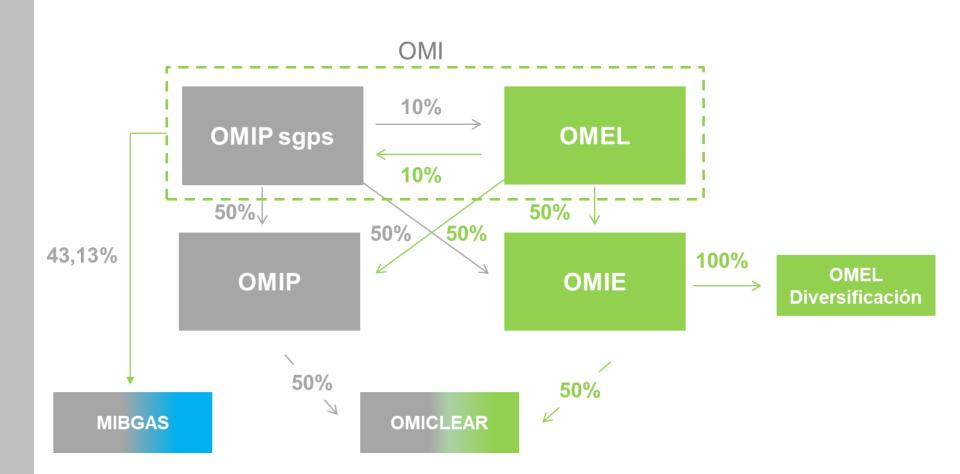




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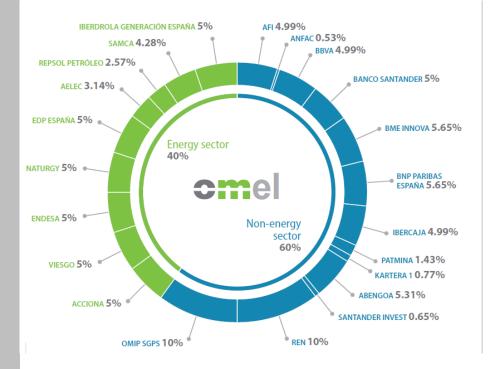
STRUCTURE OF OMI GROUP

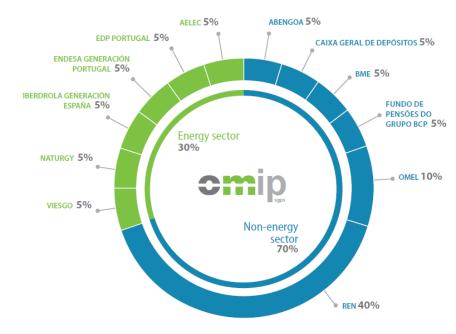


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OMI SHAREHOLDERS

- Stocks limited to 5% (Exception of TSOs that can hold up to 10% of capital)
- Shares hold by companies involved in the electricity sector cannot exceed 40% all together
- Open to new shareholders



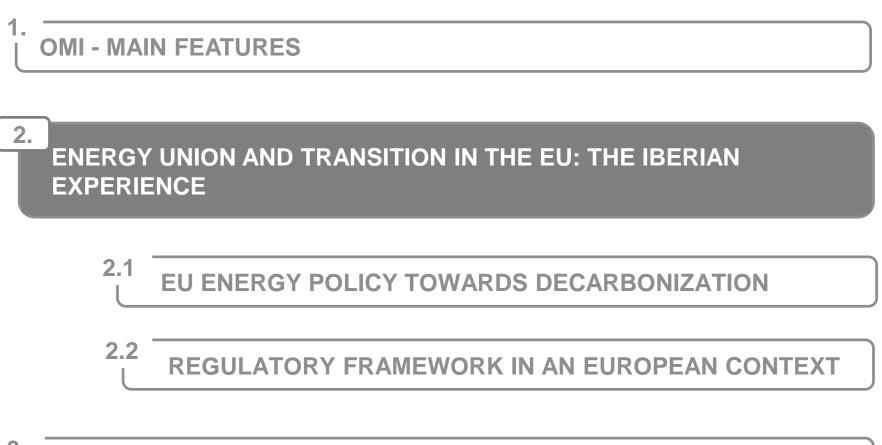


OMI GROUP – MAIN FIGURES

- OMIE is the Nominated Electricity Market Operator (NEMO) for the Iberian Peninsula and manages the day and intraday electricity markets in Spain and Portugal.
- OMIP sgmr manages the Electric Energy Derivatives Market since July 2006 and offers continuous trading services for different derivatives products, bilateral trades registration and data distribution services.
- OMIClear, Central Counterparty Clearing House, commenced its operations in July 2006, and was re-authorised to provide services as a Central Counterparty in October 2014 under the European Market Infrastructure Regulation (EMIR).

OMI GROUP – MAIN FIGURES 2018





3. THE EU ELECTRICITY SPOT AND FORWARD MARKET

OMI - MAIN FEATURES



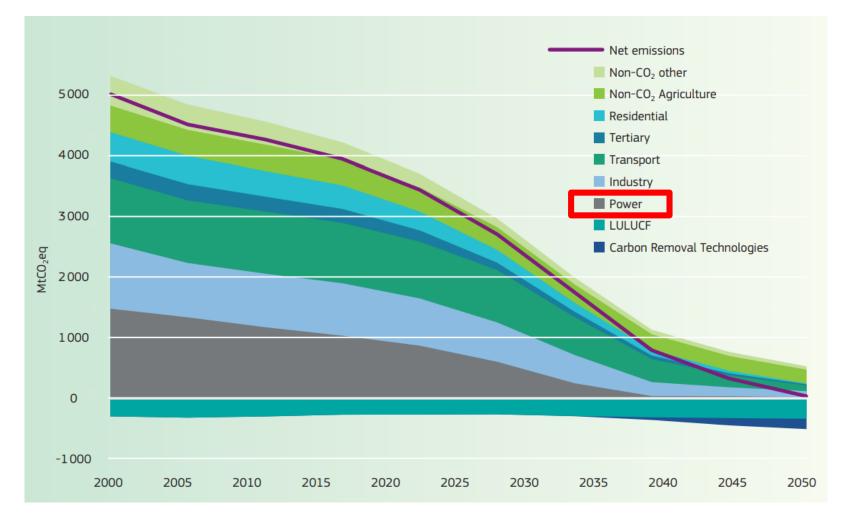


2.2 REGULATORY FRAMEWORK IN AN EUROPEAN CONTEXT

3. THE EU ELECTRICITY SPOT AND FORWARD MARKET

CLIMATE ACTION: AN CHANCE FOR EVERYONE

Trajectory of GHG emissions in 1.5 ° C scenario



Source: A Clean Planet for all - A European strategic long-term vision for a prosperous, modern, competitive and climate neutral economy

CLIMATE ACTION: AN CHANCE FOR EVERYONE

POLÍTICA EU

Framework and binding objectives established at international level for next years





32% RES 32,5% EE

2030

CLEAN ENERGY FOR ALL EUROPEANS PACKAGE

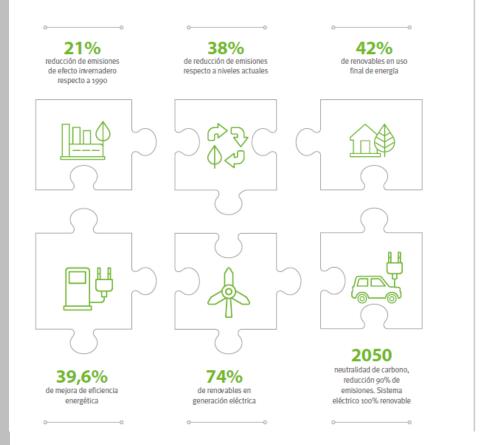
| | European Commission Proposal | EU Inter-institutional Negotiations | European Parliament Adoption | Council Adoption | Official Journal Publication |
|---------------------------------------|---------------------------------|--|---------------------------------|---------------------|---|
| Energy Performance in Buildings | 30/11/2016 | Political Agreement | 17/04/2018 | 14/05/2018 | 19/06/2018 - Directive (EU) 2018/844 |
| Renewable Energy | 30/11/2016 | Political Agreement | 13/11/2018 | 04/12/2008 | 21/12/2018 - Directive (EU) 2018/2001 |
| Energy Efficiency | 30/11/2016 | Political Agreement | 13/11/2018 | 04/12/2018 | 21/12/2018 - Directive (EU) 2018/2002 |
| Governance of the Energy Union | 30/11/2016 | Political Agreement | 13/11/2018 | 04/12/2018 | 21/12/2018 - Regulation (EU) 2018/1999 |
| Electricity Regulation | 30/11/2016 | Political Agreement | 26/03/2019 | 22/05/2019 | 14/06/2019 - Regulation (EU) 2019/943 |
| Electricity Directive | 30/11/2016 | Political Agreement | 26/03/2019 | 22/05/2019 | 14/06/2019 - Directive (EU) 2019/944 |
| Risk Preparedness | 30/11/2016 | Political Agreement | 26/03/2019 | 22/05/2019 | 14/06/2019 - Regulation (EU) 2019/941 |
| ACER | 30/11/2016 | Political Agreement | 26/03/2019 | 22/05/2019 | 14/06/2019 - Regulation (EU) 2019/942 |

PNIEC 2021-2030 IN THE PAST WE DID NOT HAVE A POINT OF ARRIVAL

PLANES NACIONALES INTEGRADOS DE ENERGÍA Y CLIMA

ESPAÑA

Objetivos Plan Nacional Integrado de Energía y Clima (PNIEC ESPAÑA)



... NOW WE HAVE ONE

PORTUGAL

Objetivos Plan Nacional Integrado de Energía y Clima (PNIEC PORTUGAL)

27% reducción de emisiones de efecto invernadero respecto a 1990 38% de reducción de emisiones respecto a niveles actuales

47% de renovables en uso final de energía



32,5%

de meiora de eficiencia

energética



80%

de renovables en

generación eléctrica





2050 neutralidad de carbono, reducción del 85% al 90%

reducción del 85% al 90% de emisiones. Sistema eléctrico 100% renovable.

OMI - MAIN FEATURES

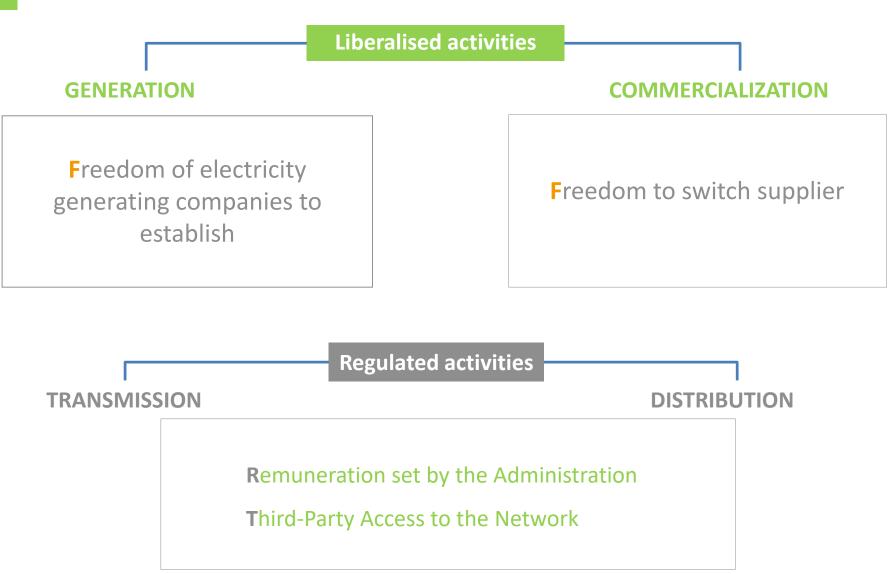




2.2 REGULATORY FRAMEWORK IN AN EUROPEAN CONTEXT

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EU ELECTRICITY SECTOR



KEY ELEMENTS

C European Network of TSOs for gas and for electricity

• NEMOs as a new EU entity to perform the MCO function

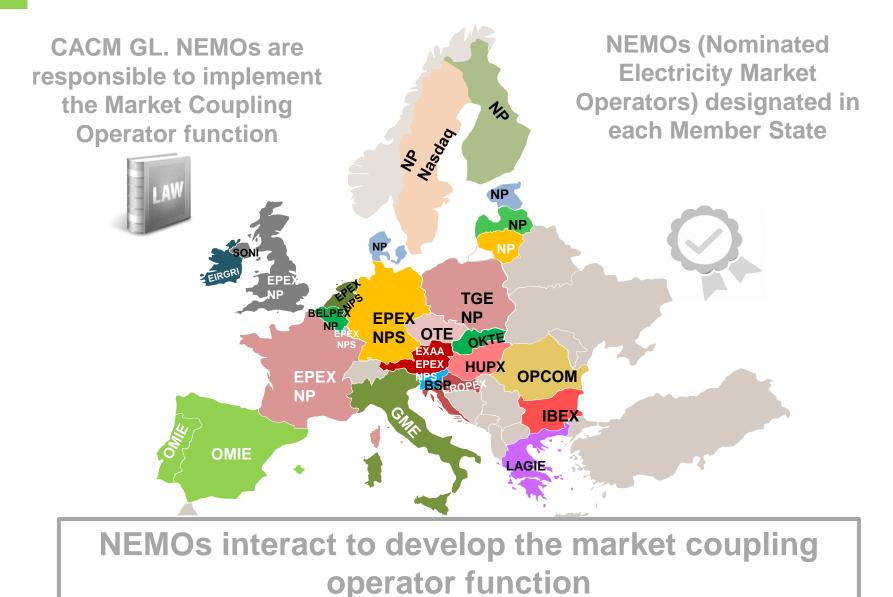
Network Codes & Guidelines

Reinforcement of the Agency for the Cooperation of Energy Regulators - ACER

C Reinforced role for NRAs and independence provisions

Transparency and consumer protection measures

NEMO DESIGNATION

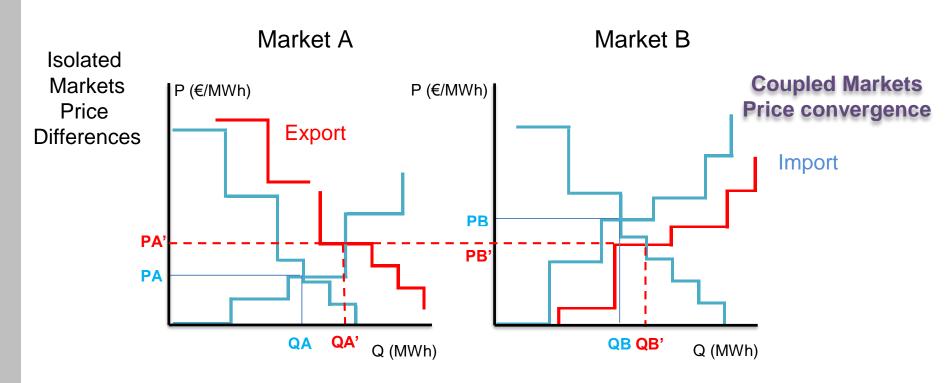


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EUROPEAN MODEL FOR DAY-AHEAD MARKETS

For Power Exchanges: Most competitive price will arise & Overall

welfare increases

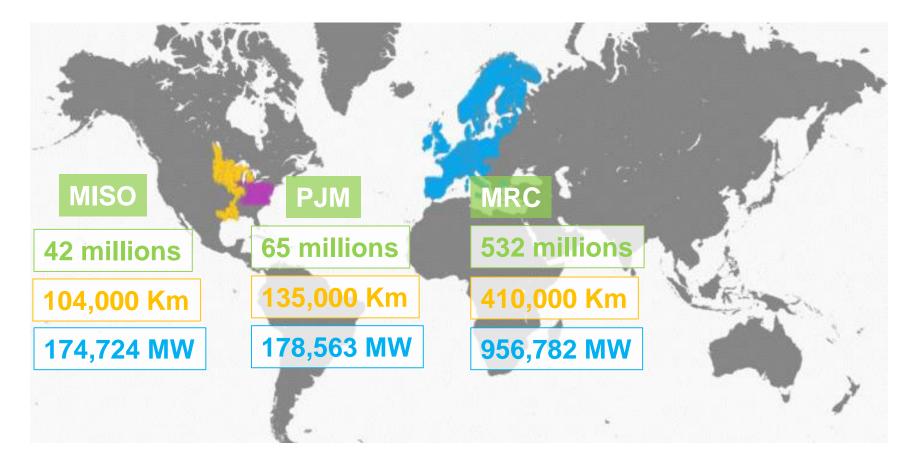


For TSOs: Efficient capacity allocation

EXISTING TSOs & NEMOs COOPERATION

MRC Comparison MRC, PJM, MISO

CUSTOMERS SERVED KMS LINES OPERATED GENERATION CAPACITY



OMI - MAIN FEATURES

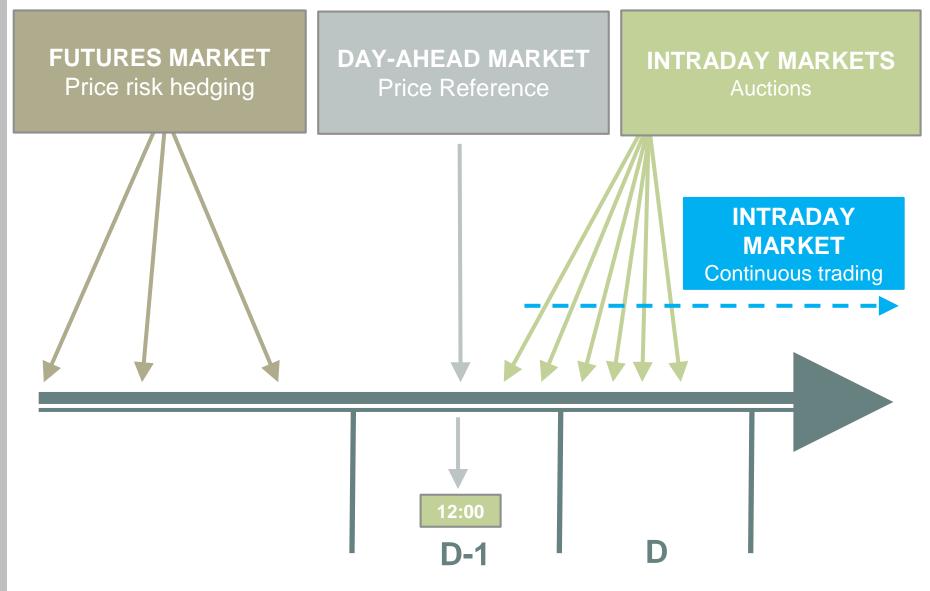
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MARKETS INTEGRATION HELPS DELIVER ENERGY TRANSITION



MARKETS INTEGRATION HELPS DELIVER ENERGY

THE LARGEST MARKET INTEGRATION IN THE WORLD





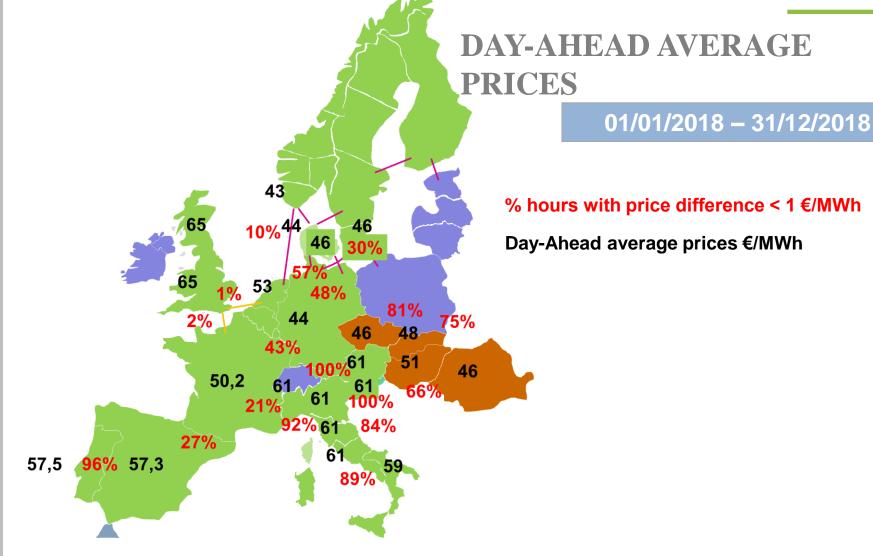
UE Day Ahead 22 Countries 12 NEMOs 32 TSOs 1 Algorithm

85% Demand

Coupled Markets DA Associated Markets not coupled yet to DA Independent user of PCR algorithm Next countries to Couple

Source: MRC, 2018

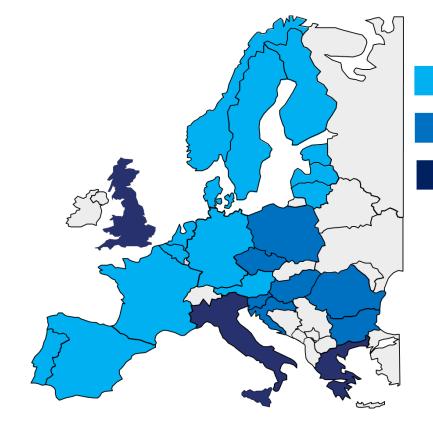
MARKETS INTEGRATION HELPS DELIVER ENERGY TRANSITION

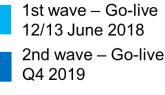


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MARKETS INTEGRATION HELPS DELIVER ENERGY

THE LARGEST MARKET INTEGRATION IN THE WORLD





3rd wave – Go-live TBC

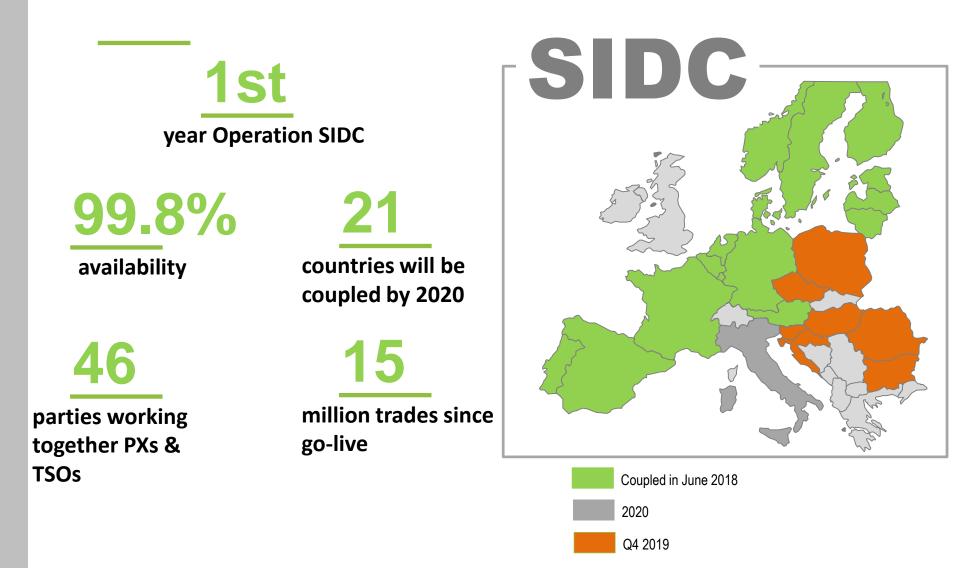


UE Intraday 14 Countries 4 NEMOs 16 TSOs

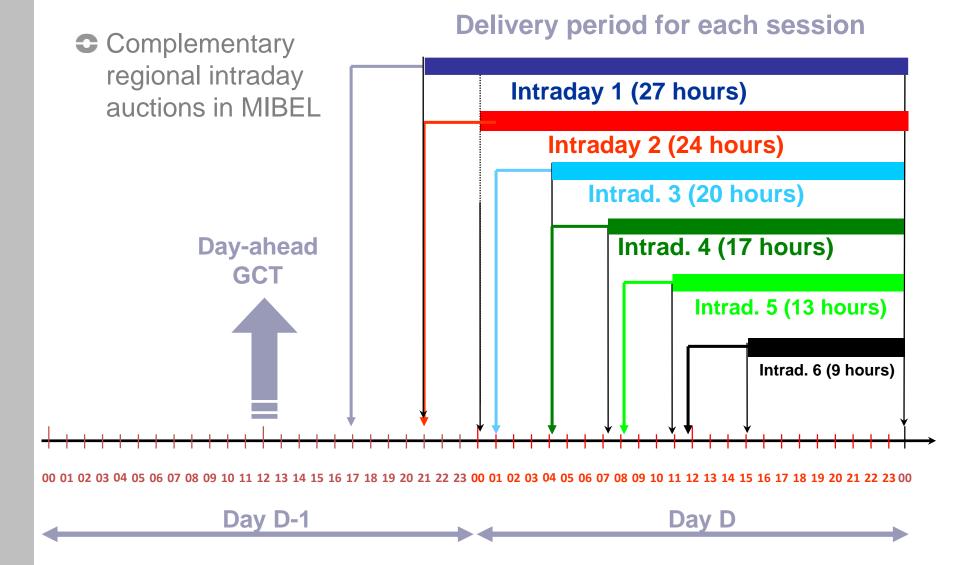
1 Algorithm

Source: XBID, 2018

CONTINUOUS INTRADAY MARKET MAIN FIGURES IN 2018



FUNCTIONING OF INTRADAY MARKET IN THE EU (XBID) AND INTRADAY AUCTIONS IN MIBEL

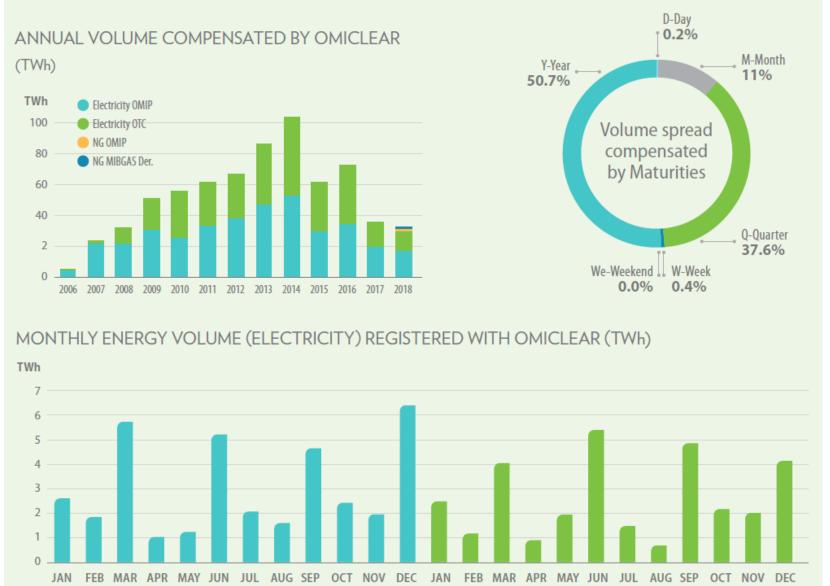


RISK HEDGING: FORWARD MARKETS NEGOTIATION PLATFORM AND CLEARING HOUSE

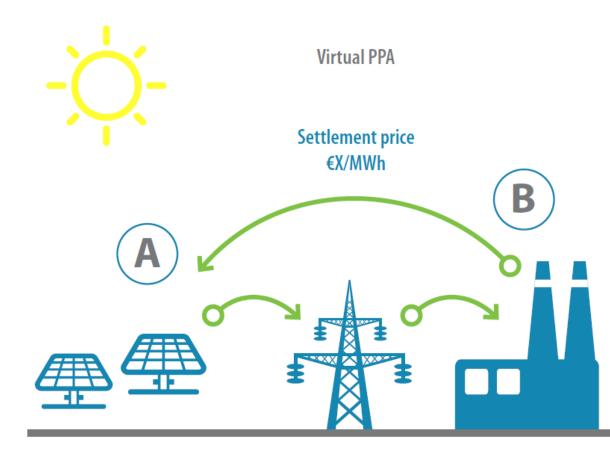


- Negotiation (continuous /auction)
 OTC register (with or without broker)
- C Position register
- Risk assessment
- Guarantees management
- Settlement and billing
- Notifications

OMIP / OMICLEAR AT A GLANCE



HOW TO REGISTER A VIRTUAL PPA WITH OMIP/OMICLEAR

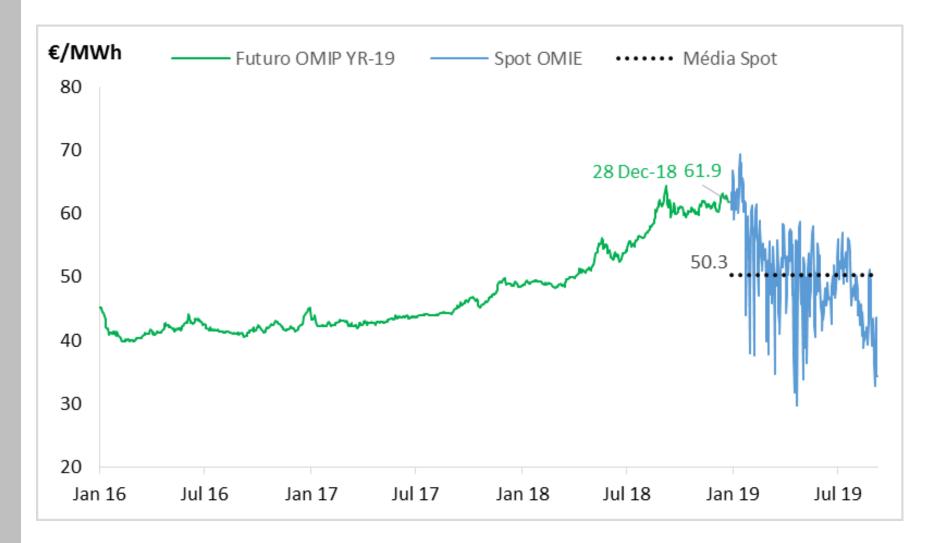


Reduction in the risk price

- Agent A and Agent B (participants in OMIP) can register a futures strip up until year +7, at a certain price (Settlement Price)
- Contracts are automatically cleared in OMIClear

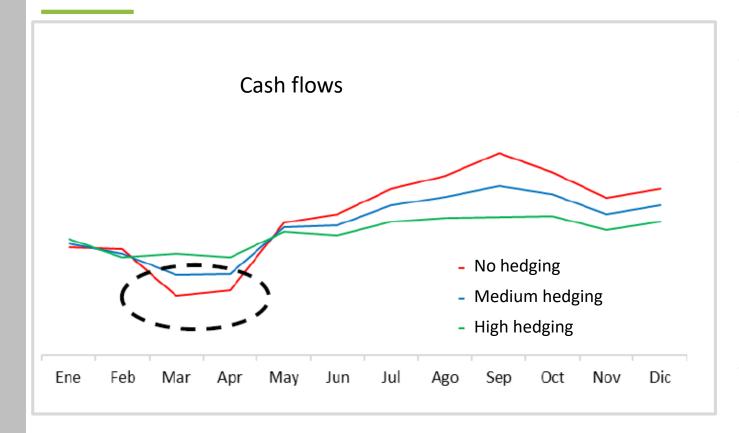
Reduction in the counterparty risk

- Sellers guarantee a stable cash flow
- Buyers guarantee the purchase price



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SPOT PRICE AND FUTURES PRICE EXAMPLE



Participation in forward markets (hedging) facilitates the modification of cash flows reducing volatility in the relevant periods.

Hedging with futures reduces the occurrence of extreme prices/cash flows.

THANK YOU –