

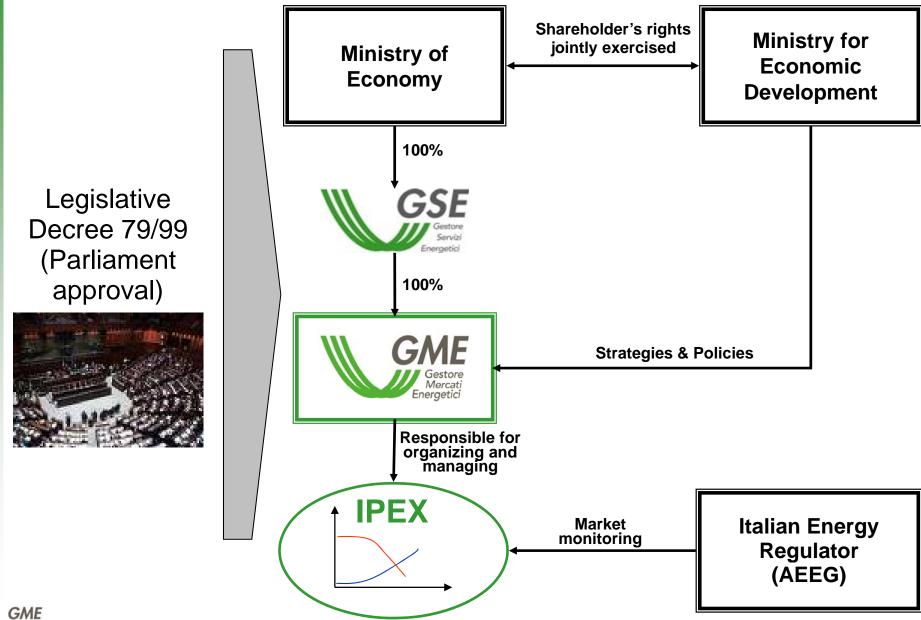
Review of governance arrangements for market coupling

Case study: the Italian - Slovenian Market Coupling

Fabrizio Carboni Market Direction

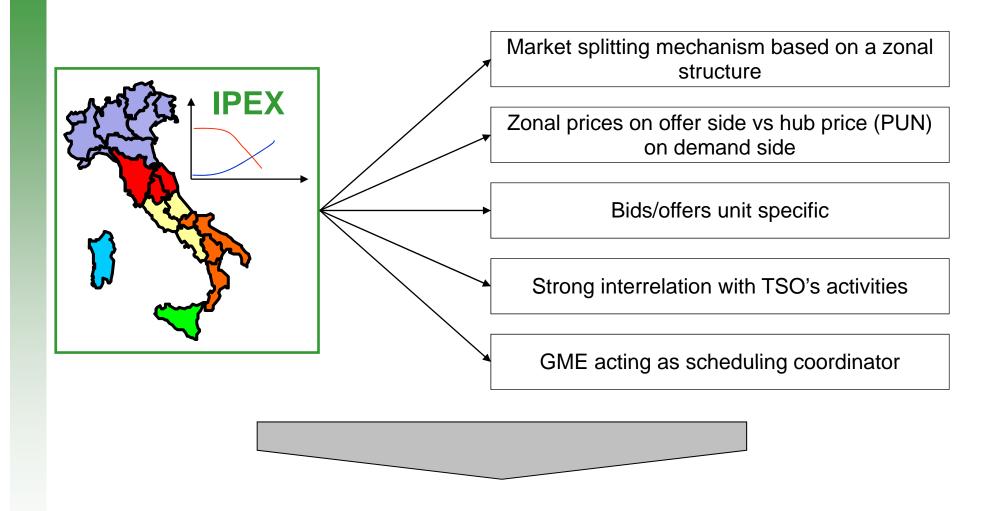
Emart Amsterdam, 24 November 2010

Governance of GME & the Italian Power Exchange (IPEX)





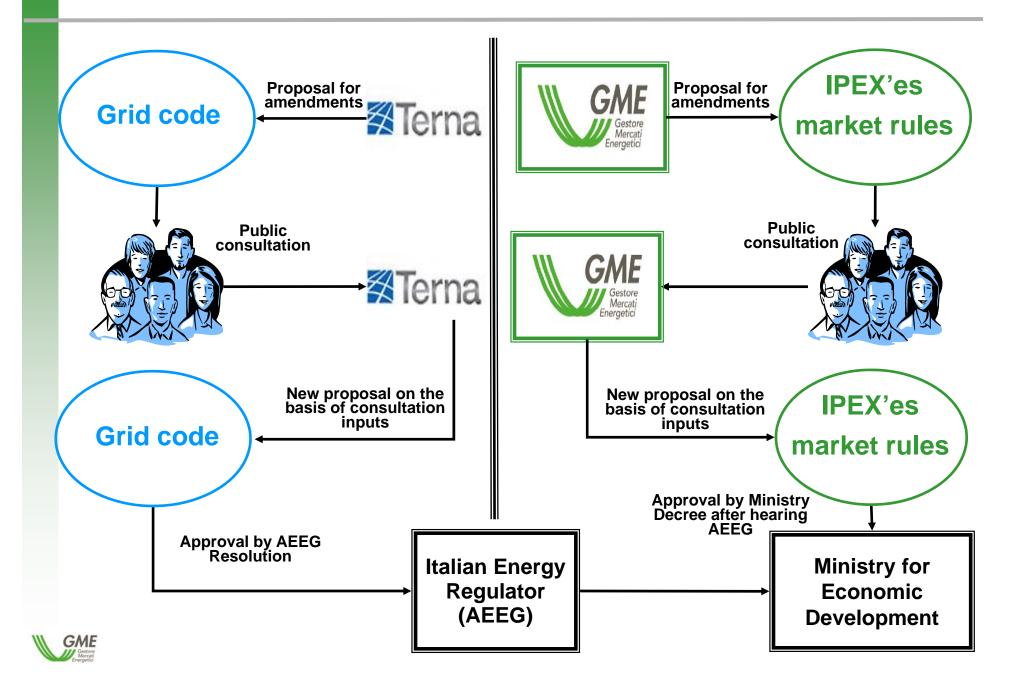
Role of IPEX: more than a market



GME (IPEX) plays a central role in the scheduling activity



Regulation of IPEX'es market rules & grid code



ITA-SI Market Coupling: the origin

Milestones

- ➤ MoU signed by GME, Borzen and BSP SouthPool in Q2 2008
- ➤ GME, Borzen and BSP devised a proposal for MC implementation, formally submitted to the TSOs, Regulators and Relevant Ministers in Q4 2008
- > The Italian and Slovenian Regulators established a joint WG in Q2 2009 involving
 - GME and BSP as PXs
 - Borzen as MO (in Slovenia)
 - Terna and Fles as TSOs
 - The Relevant Italian and Slovenian Ministers
- Scope of the WG:
 - to define a feasible solution for the implementation of the day-ahead MC on the IT-SI border (compatible with the other solutions adopted in CSE Region)
 - to identify a roadmap for MC implementation
- Project supported by Governments of Slovenia and Italy
 - Joint Declarations by the Ministries of Foreign Affairs of Italy and Slovenia on September 8th 2008 and November 9th 2009
 - MoU signed by the Italian Ministry of Economic Development and the Slovenian Ministry of Economy on August 27th 2010



ITA-SI Market Coupling: the implementation

Main steps

- Master Agreement
 - defines the principles and objectives of the project
 - approved by Regulators in October 2010
 - to be signed by TSOs, PXs and MO
 - set the launch of MC on 1st Jan 2011
- Auction Rules 2011
 - to be approved by Regulators
 - introduce MC as a day-ahead implicit auction of physical transmission rights on the ITA-SI border
- > Pentalateral agreement
 - defines the operational procedures for the management of the MC (timing and content of information to be exchanged)
 - to be approved by Regulators
 - to be signed by PXs, TSOs and MO
- Local agreements between TSO and PX/MO
 - define the local operational procedures for the management of the MC (content and format of information to be exchanged)
 - for GME and Terna, agreement subject to Regulator's approval



ITA-SI Market Coupling and the Italian market: the regulatory framework

	Market coupling regulation / agreements			Italian regulation / agreement		
	Master Agreement	Pentalateral Agreement	Auction Rules	GME – Terna bilateral agreement	Italian Market Rules	Italian dispatching rules
Terna						
GME						
AEEG					*	
BSP						
Borzen						
Flos						
Eles						
AGEN						

Approving entity

Enforcing entity



ITA-SI Market Coupling: roles and responsibilities

- > ITA-SI MC is a decentralized price coupling that:
 - reflects roles and responsibilities already held by each party
 - relies on existing local relationship between TSO and PX

Each TSO is responsible for

- defining its local grid model
- communicating ATC values between Italy and Slovenia to its local PX
- being counterpart of its local PX for market coupling import/export quantity

Each PX is responsible for

- receiving bids and offers by local market participants
- running its own matching software taking into consideration bids and offers of the other PX
- defining and publishing results of its own market
 - prices
 - quantity sold and bought

TSOs are jointly responsible for

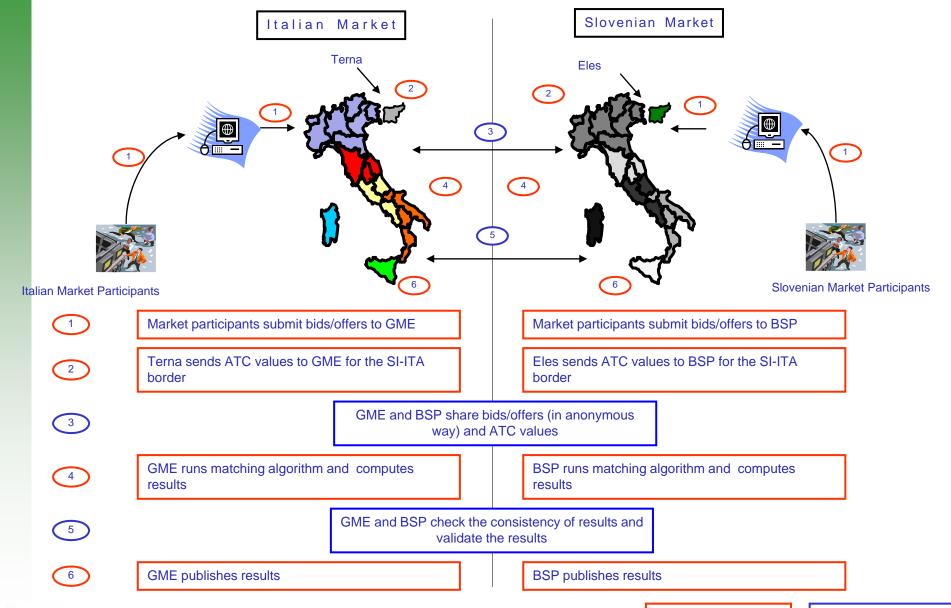
- defining the overall grid model of Italy and Slovenia
- defining ATC values between Italy and Slovenia to be allocated through MC

PXs are jointly responsible for

- sharing information about bids/offers (anonymously) and ATC values
- adopting a common matching algorithm
- checking consistency of results (prices and balance of quantity sold and bought)
- defining market coupling import/export quantity between Italy and Slovenia



ITA-SI Market Coupling: decentralized approach





Decentralized, parallel and redundant operations

Coordinated operations

ITA-SI Market Coupling: a price coupling with a common matching algorithm

- ➤ The Italian Slovenian market coupling is a price coupling
- > GME and BSP will adopt a common matching algorithm:
 - hourly auction
 - no inter-temporal constraints
 - market splitting mechanism (with uniform purchase price only on Italian zones)
 - zonal marginal pricing
 - calculation of inter-zonal schedule
 - both ATC and flow-based grid model supported (actual ATC is adopted both in Italy and Slovenia)
 - bids/offers expressed with the indication of quantity and price (stepwise bid/offer curve)
 - minimum quantity tick: 0,001 MWh
 - minimum price tick: 0,01 €/MWh



Market coupling execution: indicative timeline





Closing remarks

Italian – Slovenian Market coupling: a decentralized price coupling

- Minimum level of harmonization needed
 - low impact on national regulations
 - easy and fast to implement
- ➤ No need to introduce a central entity to perform Price Coupling, but support to cooperation of existing entities
 - at national level (PX-TSO, PX-Regulator, TSO-Regulator)
 - at XB level (PX-PX, TSO-TSO, Regulator-Regulator)
- > Full regulatory oversights directly on PXs and TSOs at national level
- > Support to PXs' role
 - a robust price formation process is an essential requirement for an efficient congestion management
 - redundant approach increases the security of operations
- Support to TSOs' requirements
 - grid model features are embedded in the matching algorithm
- Open to further expansion: the approach adopted
 - is in line with PCR principles
 - does not prevent coupling with other regions with different governance arrangements



Thank You for Your attention!!!

