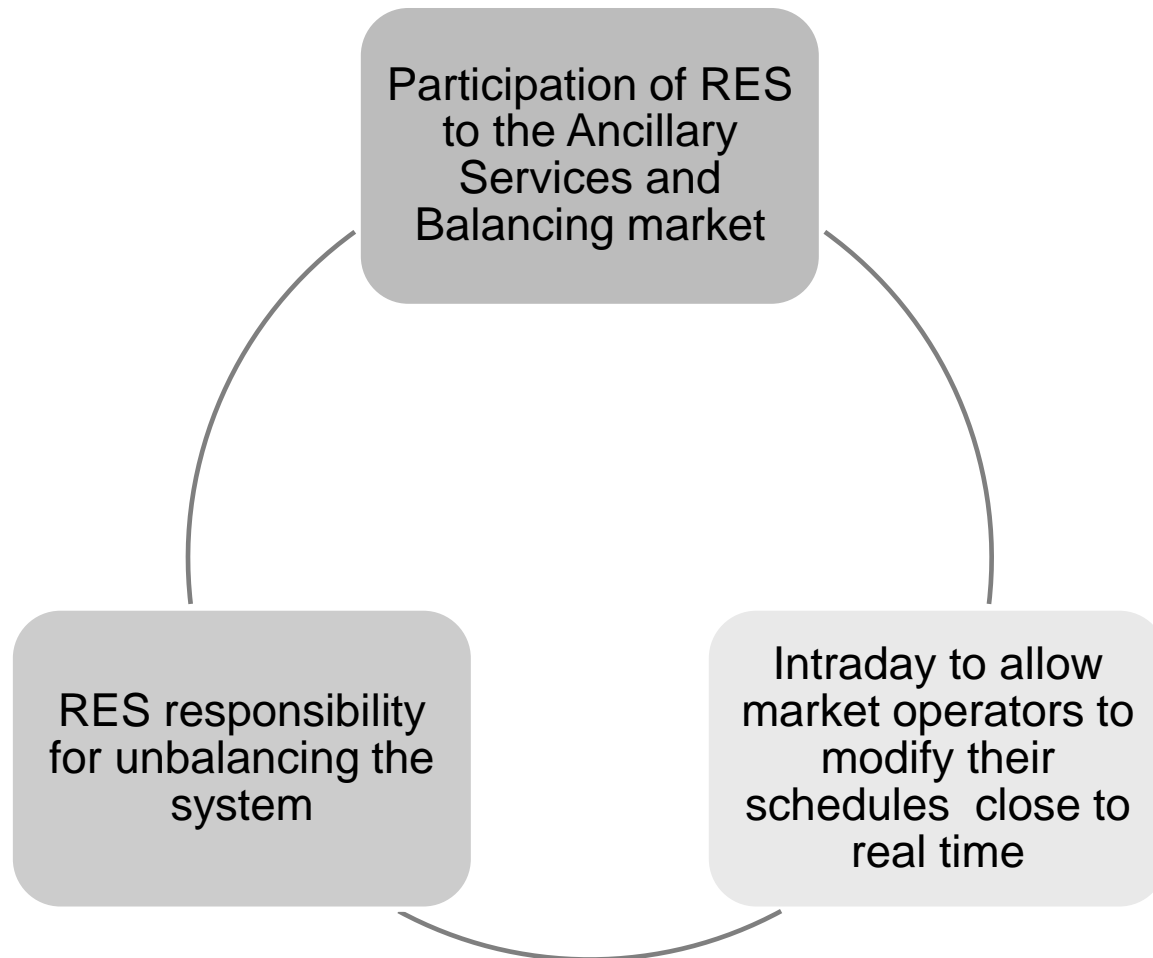


# Integration of RES generators in balancing and intraday markets

FLORENCE, 10<sup>th</sup> April 2015

# Integration of RES generators in balancing and intraday markets



# Regulatory measures implemented to integrate RES

## *Imbalance settlement*

From 2004 to 2012, the regulatory framework of the electricity market did not foresee **any incentive for renewable energy sources to schedule their production**

From 2013, in order to guarantee the active participation of RES to the operation of the electricity system, the Italian Regulator modified the **imbalance fee** previously foreseen for renewable energy sources, introducing a threshold of tolerance

Tolerance threshold has been defined according to the specific technology

# Regulatory measures under evaluation to integrate RES

*Participation of RES to the ancillary services and balancing market*

## ENVISAGED ADVANTAGES

- Increase of the number of plants enabled to offer ancillary and balancing services
- Activation of services close to real time
- Increase of downward regulation margins (necessary especially during low demand periods)
- Need for an assessment to establish participation of plants with power between 1 and 10 MW through an aggregating entity

## ISSUES OF RELEVANCE

- Technical feasibility assessment for each service and technology: potential services are reserve (primary, secondary and tertiary), balancing, tension regulation
- Regulatory framework changes aimed at:
  - definition of remuneration for services
  - definition of imbalance regulation
  - definition of access to the Ancillary Services and Balancing market (optional, compulsory, individual or aggregated)

**PARTICIPATION OF RES TO THE ANCILLARY SERVICES AND BALANCING MARKET**

Thank you for your attention