



Italian Worksop 2023 | 25 Gennaio 2023

Riflessioni regolatorie preliminari

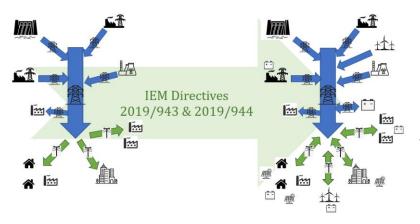
Dario Siface, Giorgia Lattanzio RSE S.p.A.





FlexPlan is a research project part of the assessment of the evolution of Power Systems towards a larger involvement of distributed resources.



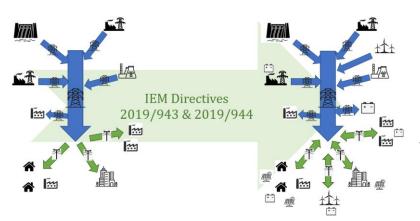


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It asses the possibility to include investments on flexibility resources in synergy with investments on networks for long term planning.



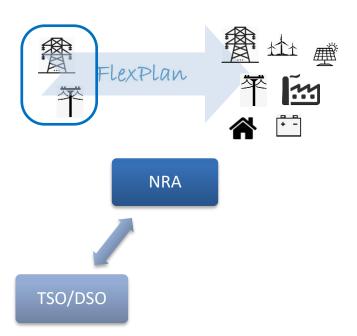




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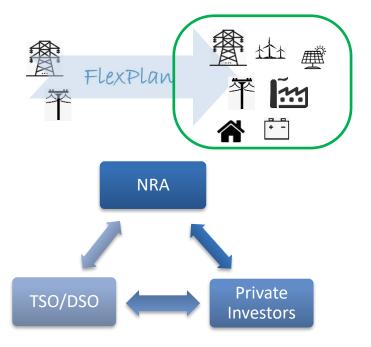


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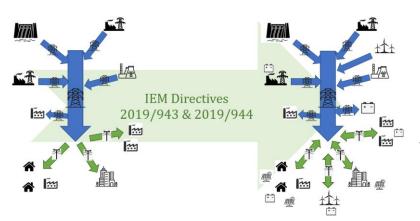
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If in the present situations investment – under the control of NRAs – are only in charge to SOs, the desired future configurations will include also private investors – i.e. flexibility owners.

These new figures will have to interact both with SOs – to meet the real needs of the Power System – and with NRAs – to assess the goodness of the investments.







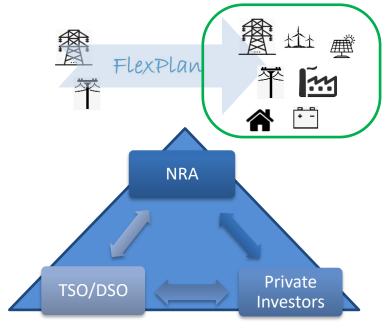
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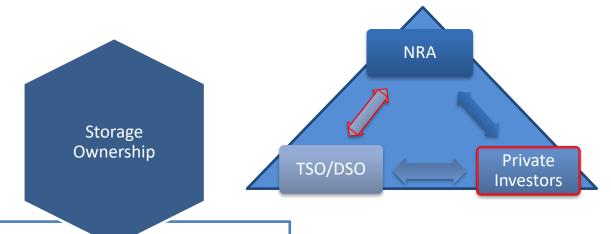
A new – more complex – "triangular" interconnection will have to be considered.





FlexPlan proposes to analyse the regulatory guidelines considering 10 main topics: Responsibilities Incentives for and data settling new Storage exchange flexibility Ownership between TSO and DSO in resources planning Services that aggregators and Markets possibility to can be provided flexibility include by flexibility resources can resources participate in their basket How proposed CBA update and market reforms Interactions internalization could affect with capacity of flexibility environmental markets remuneration costs

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SOs are not allowed to own storage facilities according to IEM Directives.

To avoid conflict of interests and market distortion, private investors should be found.

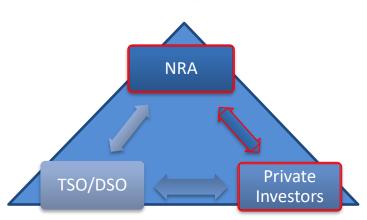
Also "must-run" operation could be considered.

SOs ownership should be allowed only if strictly necessary (e.g. to prevent exercise of market power).

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Incentives for settling new flexibility resources

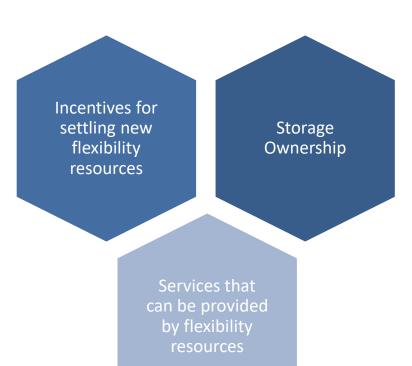
Storage Ownership



According to IEM
Directives, flexibility
should be valorised as a
support to T&D grid
planning.

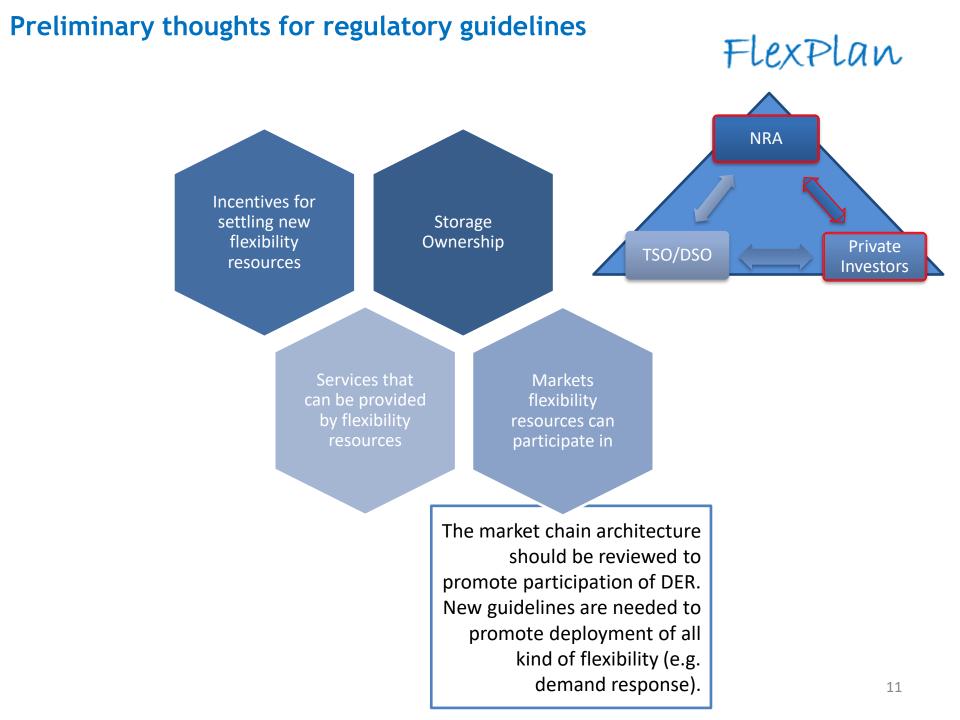
Local economic signals would foster an optimal deployment of the new resources, while ensuring a proper remuneration of the new flexibility assets.

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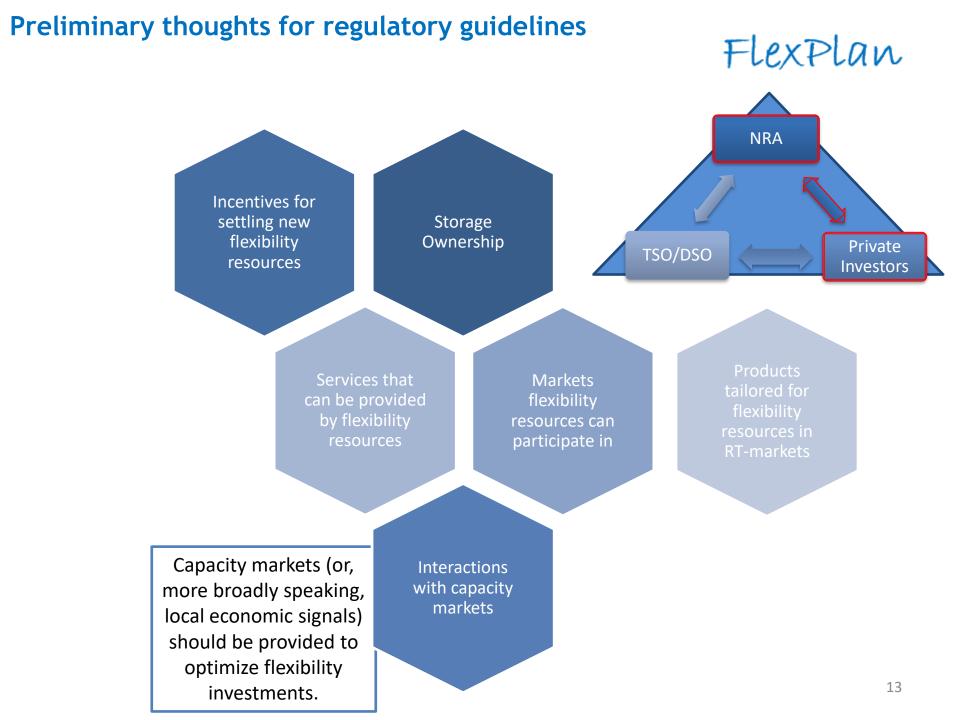


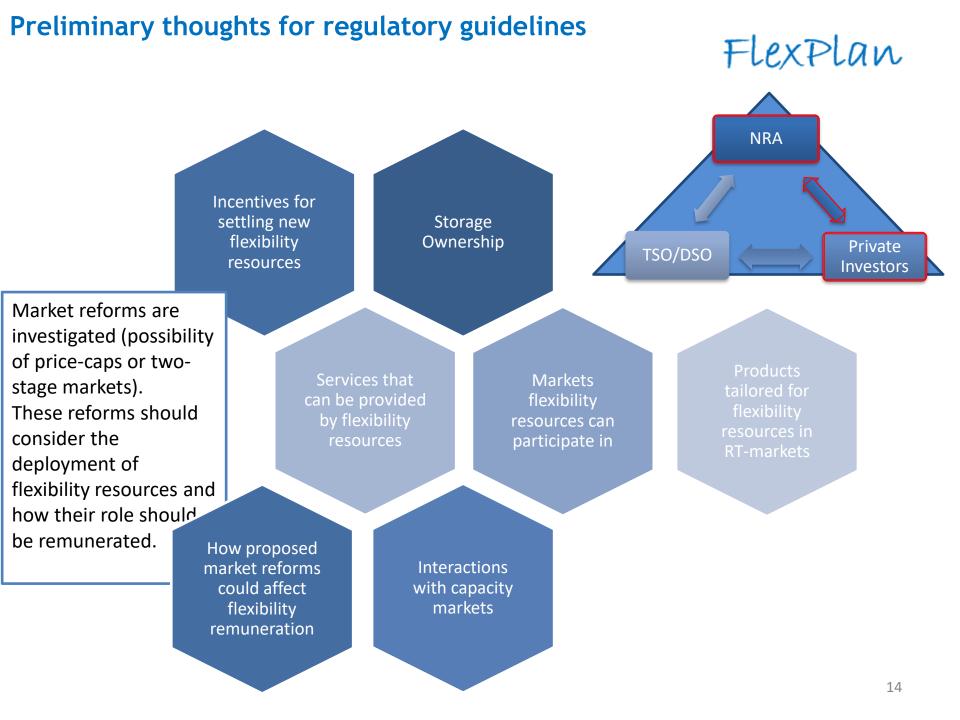


A good exploitation of flexibility resources requires to establish how flexibility should participate to grid management. Market-based mechanisms are suggested by IEM Directives.



Preliminary thoughts for regulatory guidelines FlexPlan NRA Incentives for settling new Storage flexibility Ownership Private TSO/DSO resources **Investors** Services that Markets by flexibility resources can resources participate in A set of specific products should be created in order to allow and enhance the use of flexibility resources in real time markets.





Preliminary thoughts for regulatory guidelines FlexPlan **Aggregators** represent a great potential for flexibility NRA deployment. New rules must be Incentives for defined to increase settling new Storage the attractiveness of flexibility Ownership Private TSO/DSO flexibility service resources Investors provision by these participants. Services that Markets aggregators and possibility to can be provided flexibility include by flexibility resources can resources participate in their basket How proposed market reforms Interactions could affect with capacity markets flexibility remuneration







- ⇒ Incentivizing private investors to deploy flexibility resources (storage, DSM) and their participation in the real time markets to provide contributions to compensate RES variability;
- ⇒ Facilitate the participation of flexibility resources in real time markets by creating a set of specific products;
- ⇒ Revise the entire market chain architecture so as to favorize participation from distribution while discouraging exercise of market power;
- ⇒ Design markets to provide clear and effective locational signals to incentivize investments where really needed
- ⇒ Paying attention to the new figure of the aggregator, providing a credible and financially sustainable role for it.





Responsibilities and data exchange between TSO and DSO in planning

Cooperation between TSO and DSO must be strengthened.

Planning procedures should be modified to favor the deployment of flexibility resources, also keeping in mind TSO-DSO cooperation for acquiring resources from distribution.





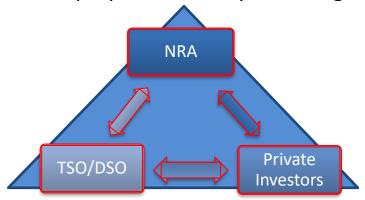
Responsibilities and data exchange between TSO and DSO in planning



⇒ **Foster TSO-DSO cooperation** for acquiring resources from distribution.



FlexPlan proposes to analyse the regulatory guidelines considering 10 main topics:

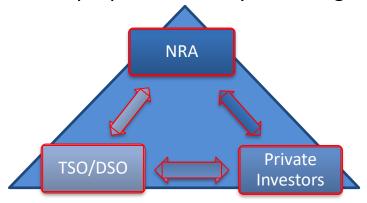


Cost-benefit analysis must take into account positive effects of flexibility resources (monetized and not-monetized effects). Importance must be given to GHG and other pollutant reduction.

CBA update and internalization of environmental costs



FlexPlan proposes to analyse the regulatory guidelines considering 10 main topics:





⇒ Pushing TSOs and DSOs to modify planning procedures to favor the deployment of flexibility resources and better consider environmental costs

CBA update and internalization of environmental costs



Energetico

Thank you...

Dario Siface

Contact Information

Affiliation: RSE SpA

Phone: +39 380 1573536

Email: Dario.Siface@rse-web.it

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