



### The Keep on Track! Project Barrier Research and Analysis A European Overview

Filip Jirouš eclareon Consulting Sofia, 7 April 2014

Strategy Consulting Policy Consulting Financial Advisory Market Intelligence Business Promotion

### Agenda

- Methodology of the Project
- Overall Results
  - European Union
  - Bulgaria
- Results for the RES-E Sector
  - European Union
  - Bulgaria
- Conclusions









# Keep on Track! Methodology of the Project





### European Overview of Barrier Categorisation and Analysis

- Creation of an interactive online tool (re-frame.eu)
  - Optimisation of the research process
  - Direct feedback from local stakeholders (broader input base)
  - Grouping of barriers into global categories
    - Allowing for a better comparison of the barriers
    - Definition of cross-categories relevant to all three sectors
    - Several categories remain sector-specific
- Creation of a Barrier Database
  - Containing all barriers reported (EU27)
  - Possibility of compiling statistics:
    - Per sector (RES-E, RES-H, RES-T)
    - Per RES technology
    - Per category of barriers (e.g "Administrative processes")





### Important Notes:

- The non-identification of a barrier does not necessarily stand for its non-existence.
  - Other national barriers may have been perceived as more important or more urgent
- A high number of barriers in a specific MS does not necessarily reflect the degree of severity of the national RES situation.
  - High barrier awareness in certain countries, favoured by high transparency or high information availability
- Our barrier analysis is based on the results received from national associations and stakeholders (re-frame.eu) as well as on back-up research and expert interviews conducted by eclareon.



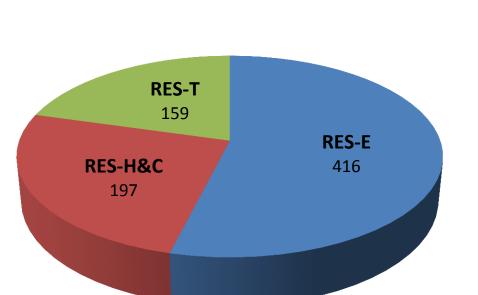




## Results







#### Number of Barriers per Sector

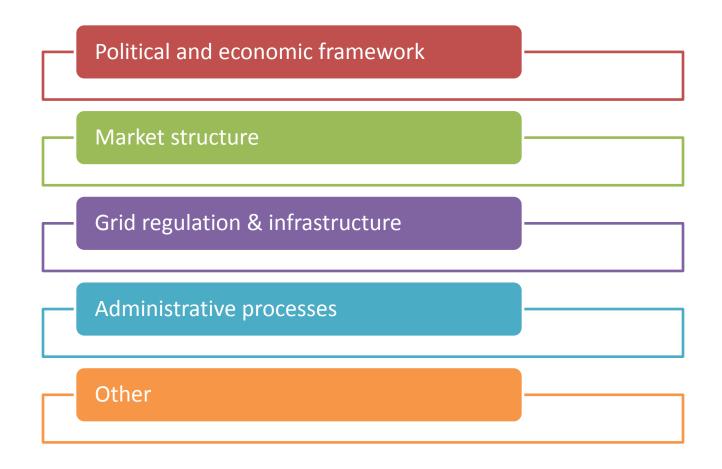
 Total of 772 single national barriers identified

 Classified in 5 global categories, divided into:

RES-E: 24 sub-categories
RES-H: 24 sub-categories
RES-T: 23 sub-categories



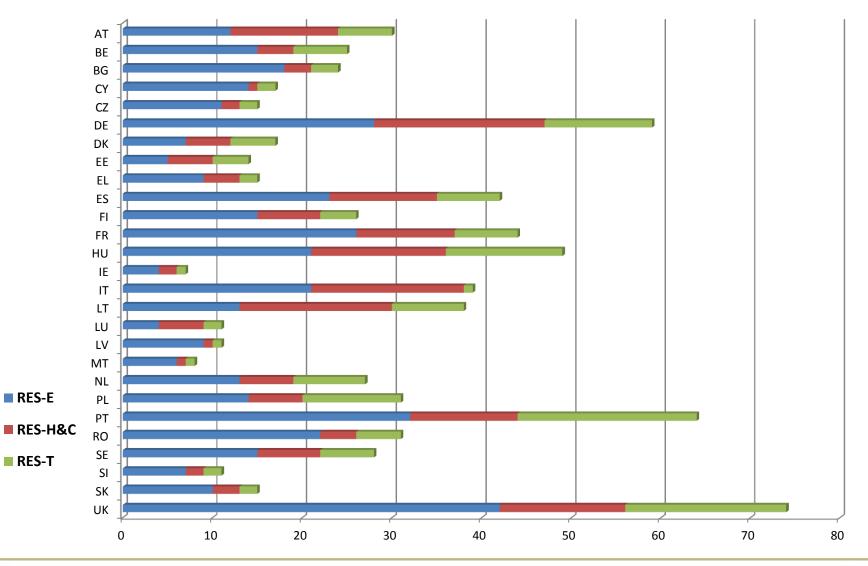
### Main Categories of Barriers for RES-E, RES-H&C and RES-T



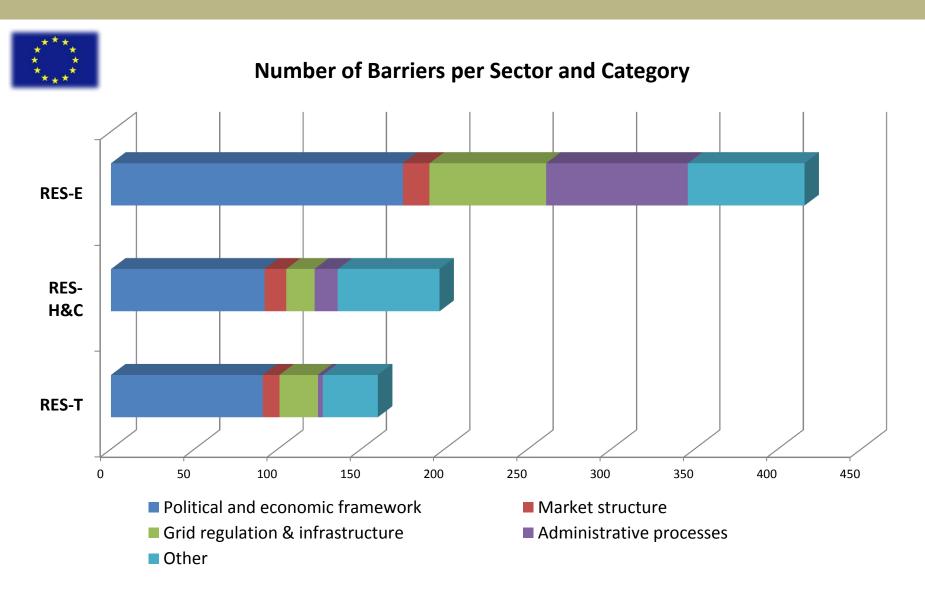




#### Keep on Track! - Barrier Analysis

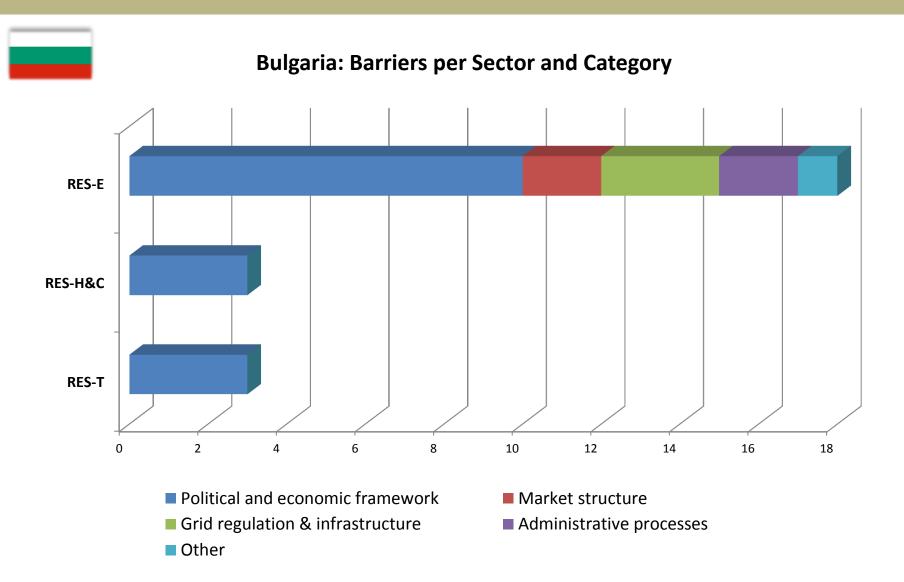


#### Number of Barriers per Country





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# **The RES-E Sector**

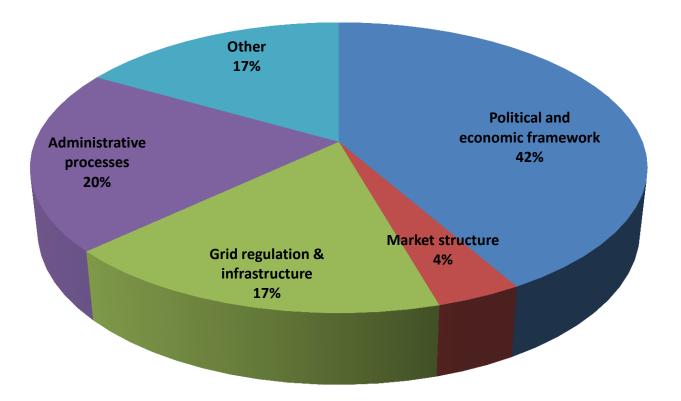






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#### Share of RES-E Barriers per Main Category

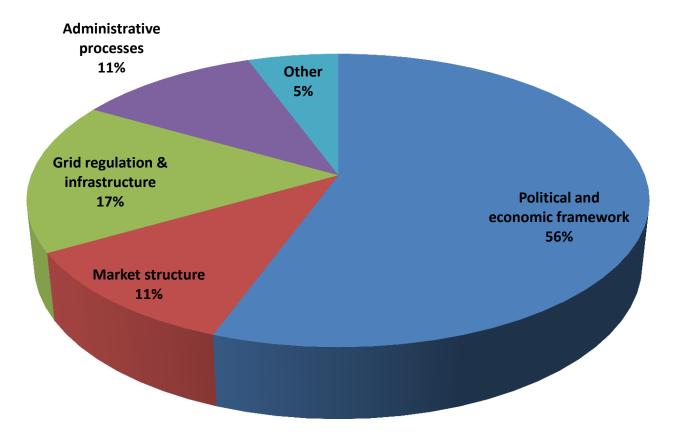




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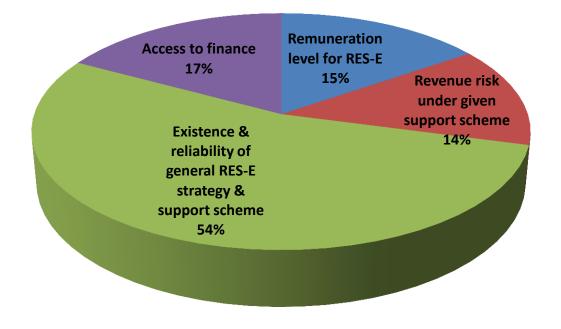
#### Bulgaria: Share of RES-E Barriers per Main Category







#### Political and economic framework: Sub-categories



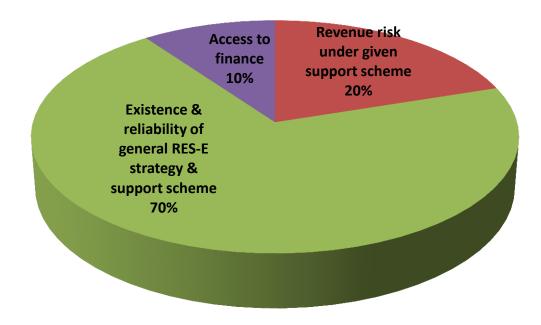
#### **Barriers in this category**

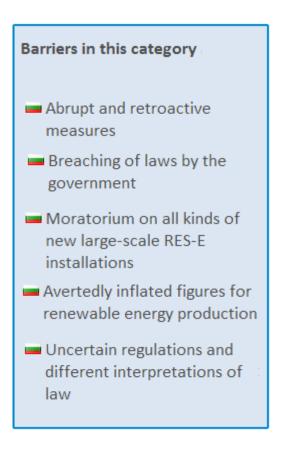
- Caps for financial support hinder further RES deployment
- Regulatory instability and deviations from power strategies
- Retroactive cuts of remuneration for PV, wind and CSP electricity
- Frequent changes and amendments of legislation
- Complete abolishment of the existing RES-E support scheme and change to a new scheme with still unknown remuneration parameters





#### Bulgaria: Political and economic framework: Sub-categories

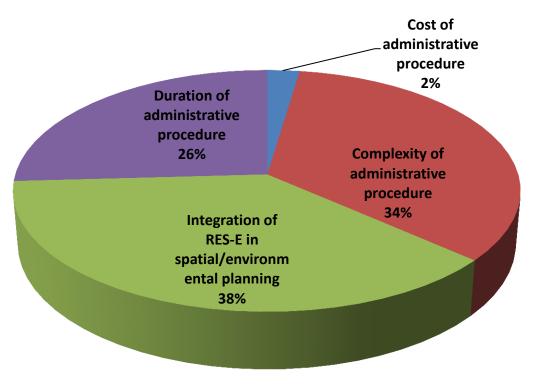


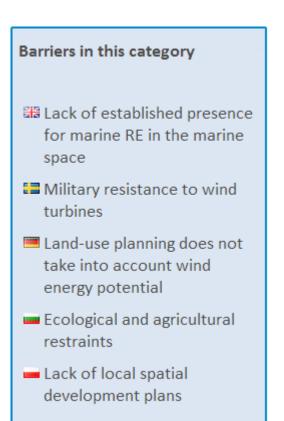






#### Administrative Processes: Sub-categories

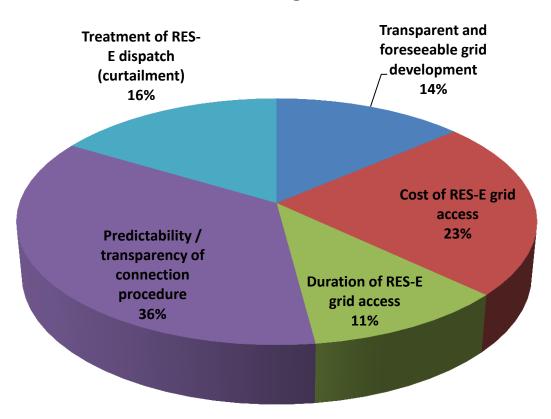








#### Grid regulation & infrastructure: Subcategories



#### Barriers in this category

- DSOs have announced connection moratorium
- Arbitrary suspension on the side of distributors
- Lack of definition of curtailment procedure
- New Electricity Sector Law and draft Royal Decree for RES-E restricts priority access and dispatch for RES-E
- Imposing restrictions on the generation of PV and wind plants





# Conclusions





- Barriers in RES-E sector more diversified, than in RES-H&C and RES-T
- Bulgaria: RES-H&C and RES-T sectors are almost non-existent
- Dominant category over all three sectors: political and economic framework
  - Also uniform dominant sub-category for all three sectors: Existence & reliability of general RES strategy & support scheme
  - Bulgaria: The most severe barriers were reported within this sub-category. If these barriers cannot be overcome, the further development of renewable energy is highly unlikely.





Conclusion

### Благодаря Ви за вниманието!



## ideas into energy.

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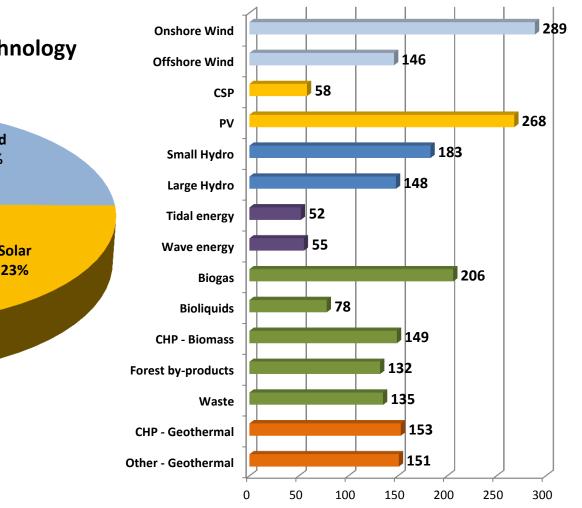
# **Additional Material**



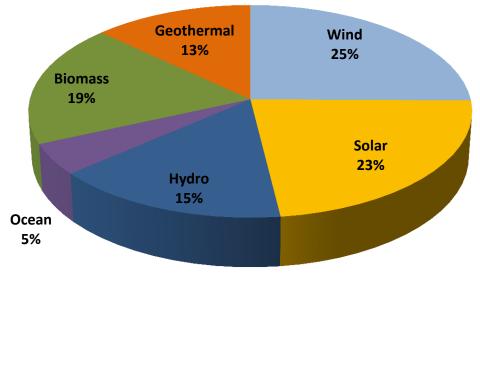


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#### **RES-E Barriers per Sub-Technology**



#### Share of RES-E Barriers per Technology







# **The RES-H&C Sector**

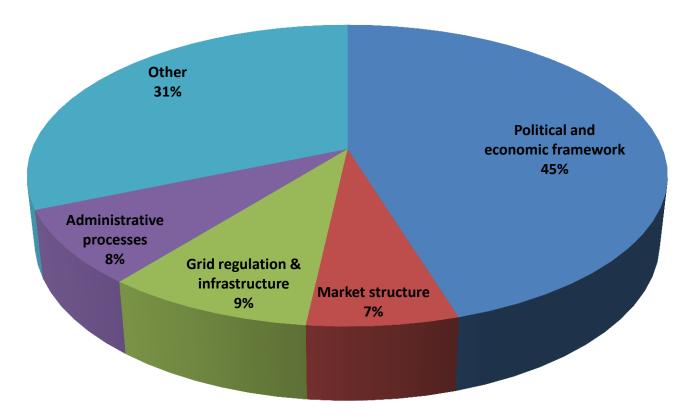






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#### Share of RES-H&C Barriers per Main Category



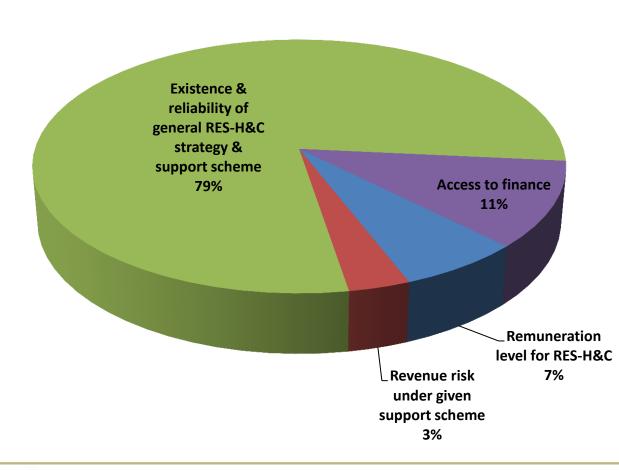




Barriers in this category



#### Political and economic framework: Sub-categories





- Schemes
- Absence of support mechanisms
- Focus of the industry on single-family houses and multi-user dwellings





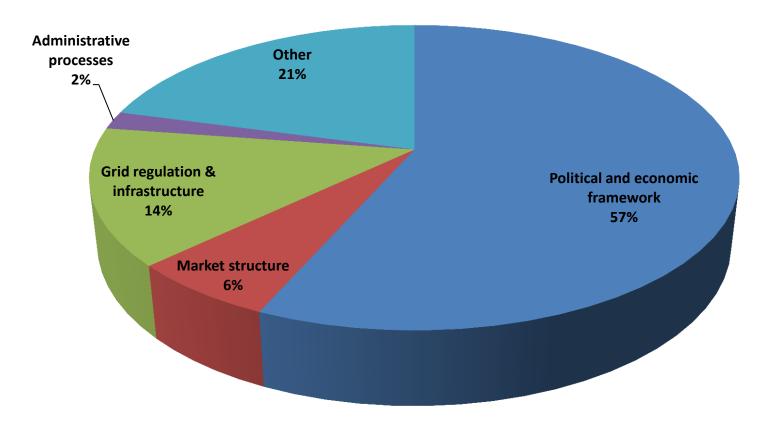
# **The RES-T Sector**







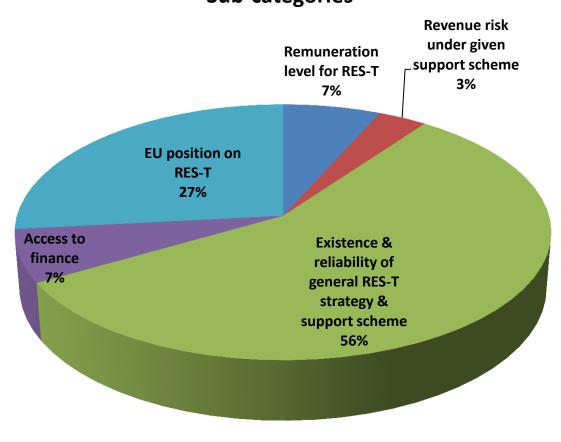
#### Share of RES-T Barriers per Main Category







#### Political and economic framework: Sub-categories



#### **Barriers in this category**

- Lack of severity regarding the non-enforcement of the blending of 10% biofuels
- Non-existence and effectiveness of a general RES-T strategy
- Lack of regulatory stability and visibility of support policies in the long term
- European Commission's proposal of 17 October 2012 for a 5% cap on the amount of first generation biofuels
- Lack of targeted support mechanisms and incentives

