



EU-SysFlex

What makes a successful Project?



#H2020Energy
info day

John Lowry
Project Director
EirGrid - Ireland

Topics



EU-SysFlex

- H2020
- What interested us
- How did we come up with a winning proposal
- Our consortium
- Proposal creation
- Online application process
- Recommendations



#H2020Energy

Energy



EU-SysFlex



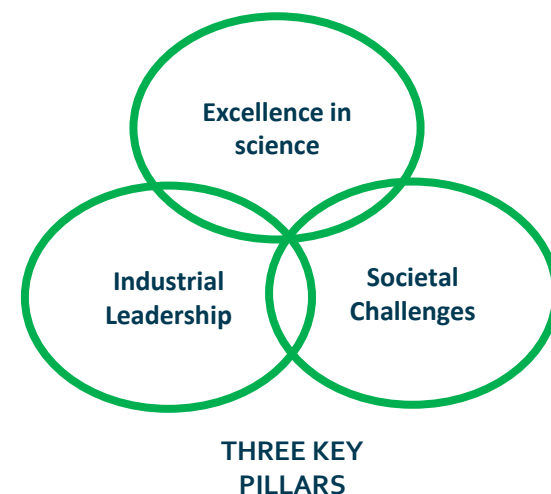
Horizon 2020

LCE-04-2017

Work Programme

Secure, Clean, and Efficient Energy

€65m – 2017 call for proposal



#H2020Energy

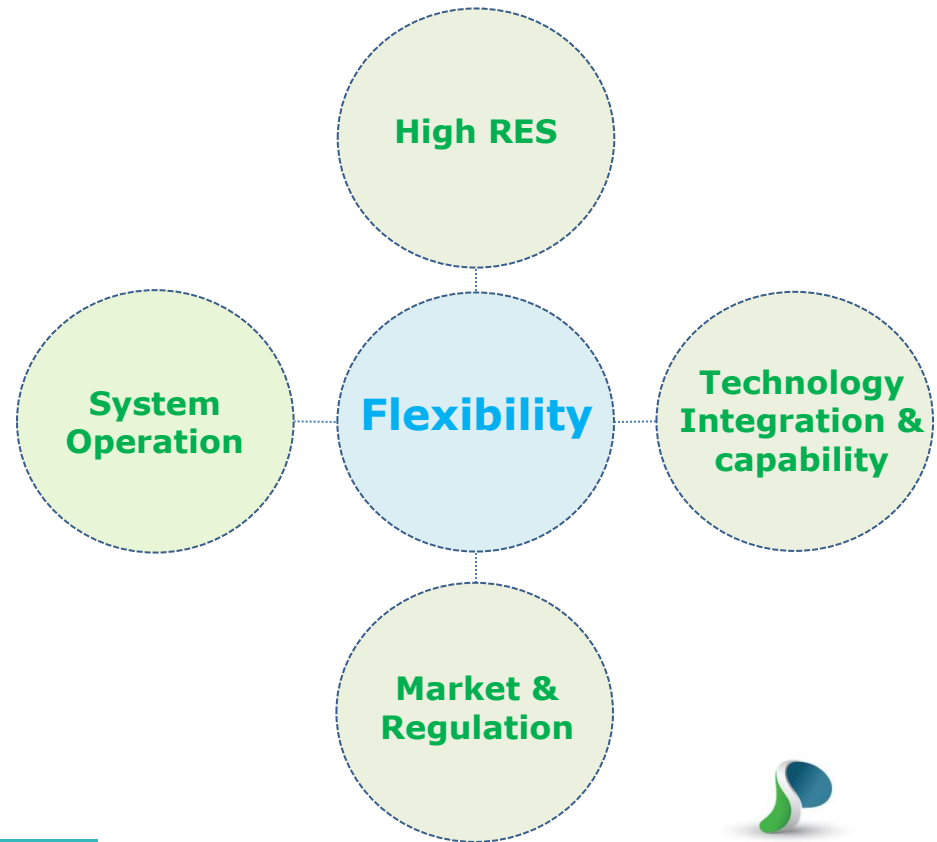
Energy



What was in the call that interested us?

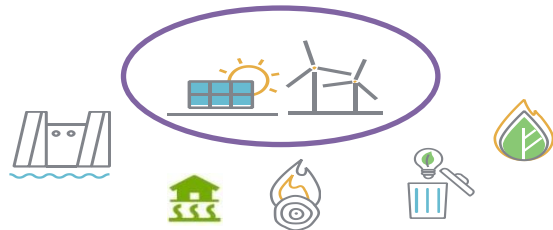
Relevance!

**Alignment with
strategic intent!**



Common Challenges & Interests!

Mix and scale of RES



GREATER RELIANCE ON VARIABLE SOURCES OF ELECTRICITY

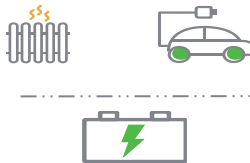
System Structure



BECOMING MORE DECENTALISED AND DISTRIBUTED

New Dimensions

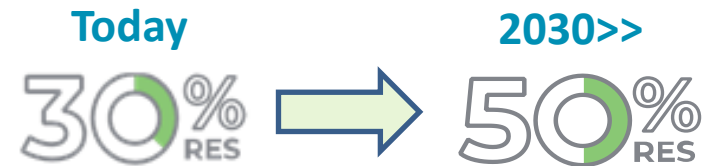
ELECTRIFICATION OF HEAT, COOLING & TRANSPORT



LARGE SCALE DEPLOYMENT OF BATTERY STORAGE



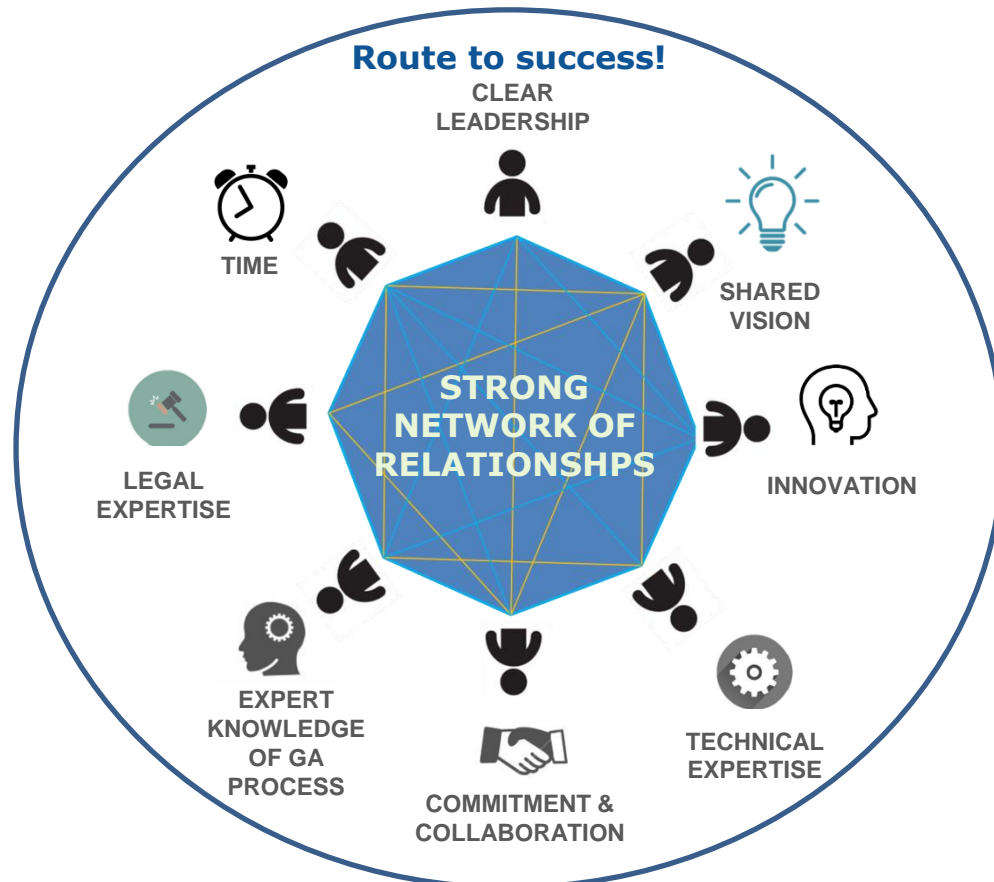
SMARTER LIVING



Increased System Complexity

... 2050>> Decarbonisation

How did we come up with the proposal?



5 Dimensions considered

Tick the boxes of scope requirement



Markets & Regulation

Organizational level

- TSO/DSO interface
- Centralised-decentralised resources optimization / aggregation
- Data exchanges for cross-border coordination
- Wholesale service exchanges at (sub-) system level

Resources

- Distributed resources :
 - Storage, DR, DG, RES
- Centralized resources :
 - Bulk storage
 - Flexible gen
 - DR
 - RES

Services

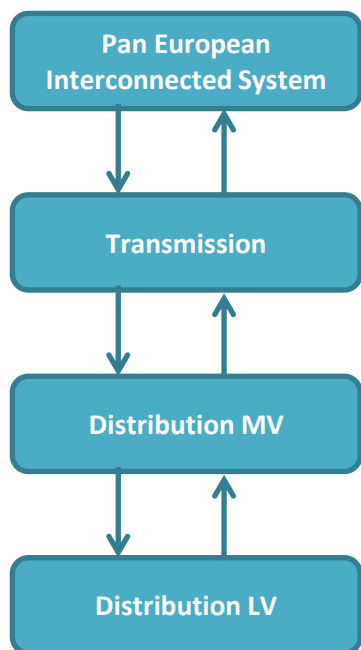
- Frequency regulation (existing and new services)
- Congestion management in the transmission grid
- Voltage regulation
- Black start

Technical solutions

- Market simulation platforms
- Data exchange solutions
- Optimisation/Aggregation platforms
- Real time control systems
- Flexibility forecast tools
- Pan-european optimisation & simulation tools

Strong Consortium = Strong Proposal

Challenge of scope crosses
entire energy chain



#H2020Energy

Energy



Key thoughts for consortium establishment

- Establish a core consortium partners.
- Identify expertise and sector segments required.
- Work your network, in particular former collaborators from previous projects who would be well known in the area of expertise required.
- Make sure all requirement from Grant call is aligned with project participants.
- Get the right Consortium mix.



#H2020Energy

Energy





Our Consortium

TSO



DSO



Technology providers, consultants



Generation, retail and aggregator



Research institutes, universities



Demonstrators

Real time simulator

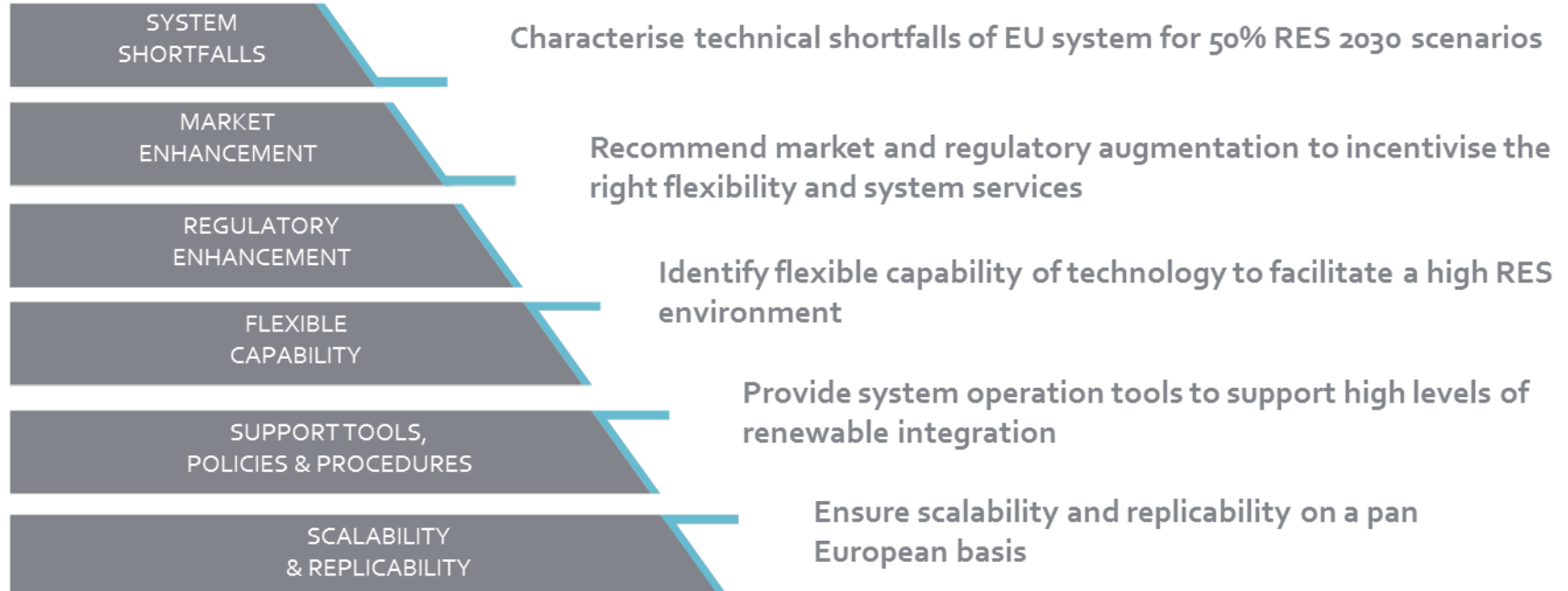


#H2020Energy

Energy



EU-SysFlex Project Dimension



#H2020Energy

Energy



EU-SysFlex

Proposal creation

Challenges:

- Harmonisation of broad consortium.
- Coordination of partners writing the detailed proposal

What worked well :

- Common vision of core leadership group
- High involvement of the core group
- Very good existing relationships



Issues to be aware of

Do not underestimate the time commitment to develop a winning proposal.
There are a lot of technical, legal and financial matters to agree.



**TECHNICAL
CLARIFICATION**



**FINANCIAL
CLARIFICATION**



**LEGAL
CLARIFICATION**



Online Submission



PROPOSAL
SUBMISSION

- Comments from partners:
 - It takes time and guidance but doable
 - Very useful if the coordinator and/or administrative partner coordinate the application process
- In General:
 - Straight forward procedure, does not require signatures or adding supplementary documentation
 - Mandatory PIC code: inform partners they need to set this up early



#H2020Energy

Energy



EU-SysFlex



Final Recommendations

- Do not underestimate the amount of time, effort and commitment required
- Very useful to bring in an administrative partner with knowledge of the application process
- Leadership is essential to drive the proposal forward
- Relationships are key
- Stay within the recommended budget
- Develop a strong and broad consortium
- Seek out a strong advisory and letters of support
- Be aware of the funding, 70% for non academic partners



#H2020Energy

Energy



EU-SysFlex



Thank you!

#H2020Energy

 **Twitter account**

Our website

www.eusysflex.com

 **@eusysflex**



#H2020Energy

Energy



EU-SysFlex