



Smart Grid Task Force EG4 Infrastructure Development

Deliverables and work programme 2012

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Overall deliverables for 2012

- *Establish a process for identifying projects of common interest (PCIs) on an informal basis and identify a first preliminary list of projects by end of 2012*
- *Use the preparatory year 2012 to learn how to best organise cooperation in order to have fully operational identification structures and procedures in place once the Regulation on guidelines for trans-European energy infrastructure (COM (2011)658) and the Regulation on guidelines for trans-European Telecommunications networks (COM(2011)657) enter into force*





1) Identification of energy projects of common interest

- *Prepare and test the process for identifying projects of common interest under the proposed Regulation COM(2011) 658*
- *Define a common methodology for the operational evaluation of the criteria laid down in Article 4.2(c) and in annex IV of the proposed Regulation*
- *Propose, by end 2012, a set of Smart Grid projects of common interest according to the provisions in Article 4 of the proposed Regulation*



2) Identification of telecommunication projects of common interest

- *Define the scale, design, scope and financing instruments required in order to collaborate within the framework of the proposed Regulation COM(2011) 657 and identify all stakeholders that may need to be involved*
- *Define a common methodology for the operational evaluation of the criteria laid down in Article 4 and in section 3 of the proposed Regulation*
- *Propose a set of Smart Grid projects of common interest according to the provisions in Article 5 of the proposed Regulation*

3) Monitoring and best practice exchange

- *Develop a monitoring approach for the implementation of selected projects of interest according to the provisions of Article 5 of the Regulation on energy infrastructures and Article 7 on telecommunication infrastructures*
- *Update the inventory of projects in Member States and the mapping of lessons learned from these projects, including those carried out with European support*
 - **European Electricity Grid Initiative**
 - **R&D projects managed by different Commission services**



Composition

- *Members States (one representative & one alternate)*
- *National Regulatory Authorities*
- *ENTSO-E / ETNO*
- *Potential project promoters:*
 - **TSOs**
 - **DSOs**
 - **energy companies**
 - **telecom network operators**
 - **telecom & IT companies**
- *ACER, CEER / BEREC*
- *European Commission*



Governance

- *Chair and secretariat: Commission (DG ENER & DG INFSO)*
 - **Organisation of meetings**
 - **Call for proposals**
- *Decision-making:*
 - **Methodology: consensus-based**
 - **Energy PCI selection:**
 - Preparation by Working Group (Member States and COM)
 - (Validation by High Level Steering Group (Member States senior officials))
- *The group could be formally established as a group with official decision making process according to the rules laid down in Article 3.2 of the energy infrastructure regulation after its entry into force.*



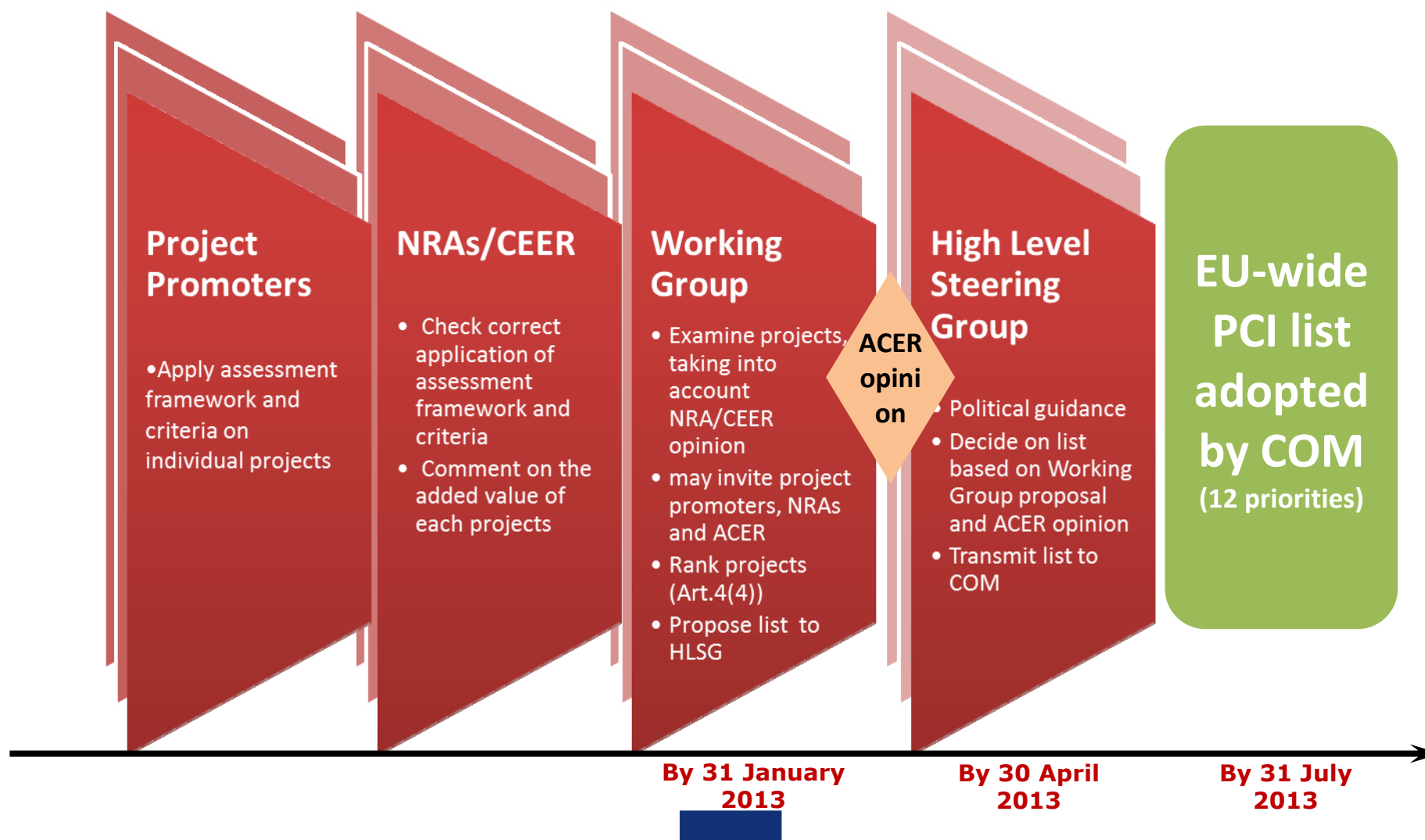
Next steps

- *Comments on the proposed deliverables for 2012 and different tasks of the work programme **by 30 March 2012***
- *Revised version of deliverables and work programme to be sent to the EG4 **by 13 April 2012***
- *Second round of comments if needed*
- *Adoption of work programme 2012 at next EG4 meeting*
- *Other topics for next EG4 meeting:*
 - **Common methodology for evaluation of energy PCIs**
 - **Practical questions for submission of energy PCIs**
 - **Smart grids projects inventory**
 - **Presentation of potential PCIs**
- *Next meeting: **11 May 2012***



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Steps for PCI identification (Article 3)





Identification of smart grid projects of common interest

Disclaimer:

- *The following definition and identification procedure applies to PCIs proposed under the energy infrastructure regulation.*
- *Inclusion of PCIs under the telecommunication infrastructure regulation in this procedure is under examination.*



What should be part of a smart grid project?

- *Any equipment or installation both at transmission and medium voltage distribution level, aiming at:*
 - **two-way digital communication, real-time or close to real-time,**
 - **interactive and intelligent monitoring and management of electricity generation, transmission, distribution and consumption within an electricity network**
- *Specific objective: developing a network efficiently integrating the behaviour and actions of all users connected to it (generators, consumers and those that do both)*
- *General objective: ensure an economically efficient, sustainable electricity system with low losses and high quality and security of supply and safety*



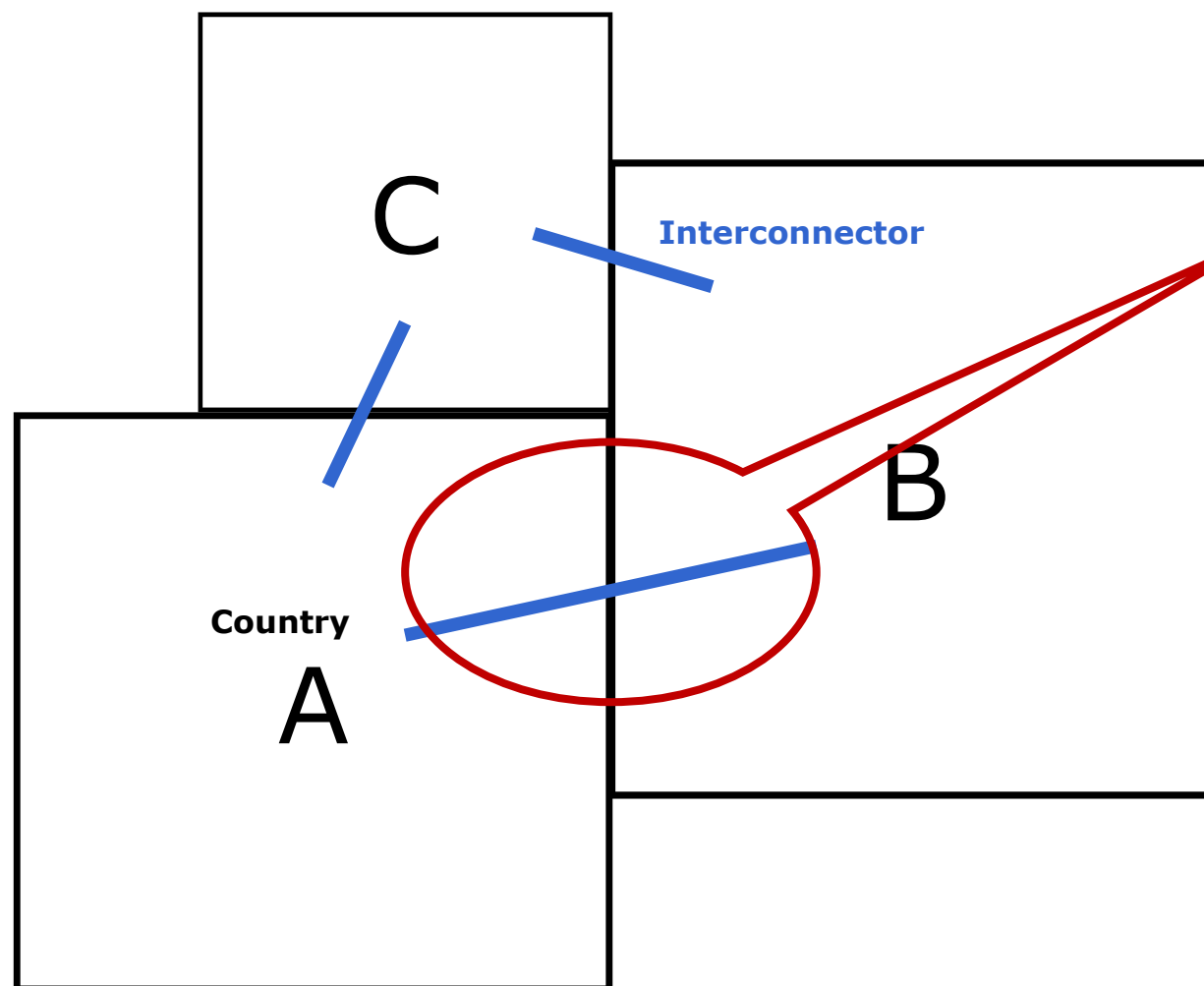
Significant cross-border impact: technical requirements for projects

- *The project is designed for equipments and installations at high-voltage and medium-voltage level designed for a voltage of 10kV or more.*
 - *transmission and distribution system operators from at least two Member States*
 - *$\geq 100,000$ users covered*
 - *≥ 300 Gigawatthours/year, of which at least 20% originate from non dispatchable resources*
- Should the share of non dispatchable resources (NDR) be measured compared to installed capacity (and not electricity)?

Which projects are we looking for?



Which projects are we looking for?



Possible project:

•TSO_A & DSO_A +
TSO_B & DSO_B

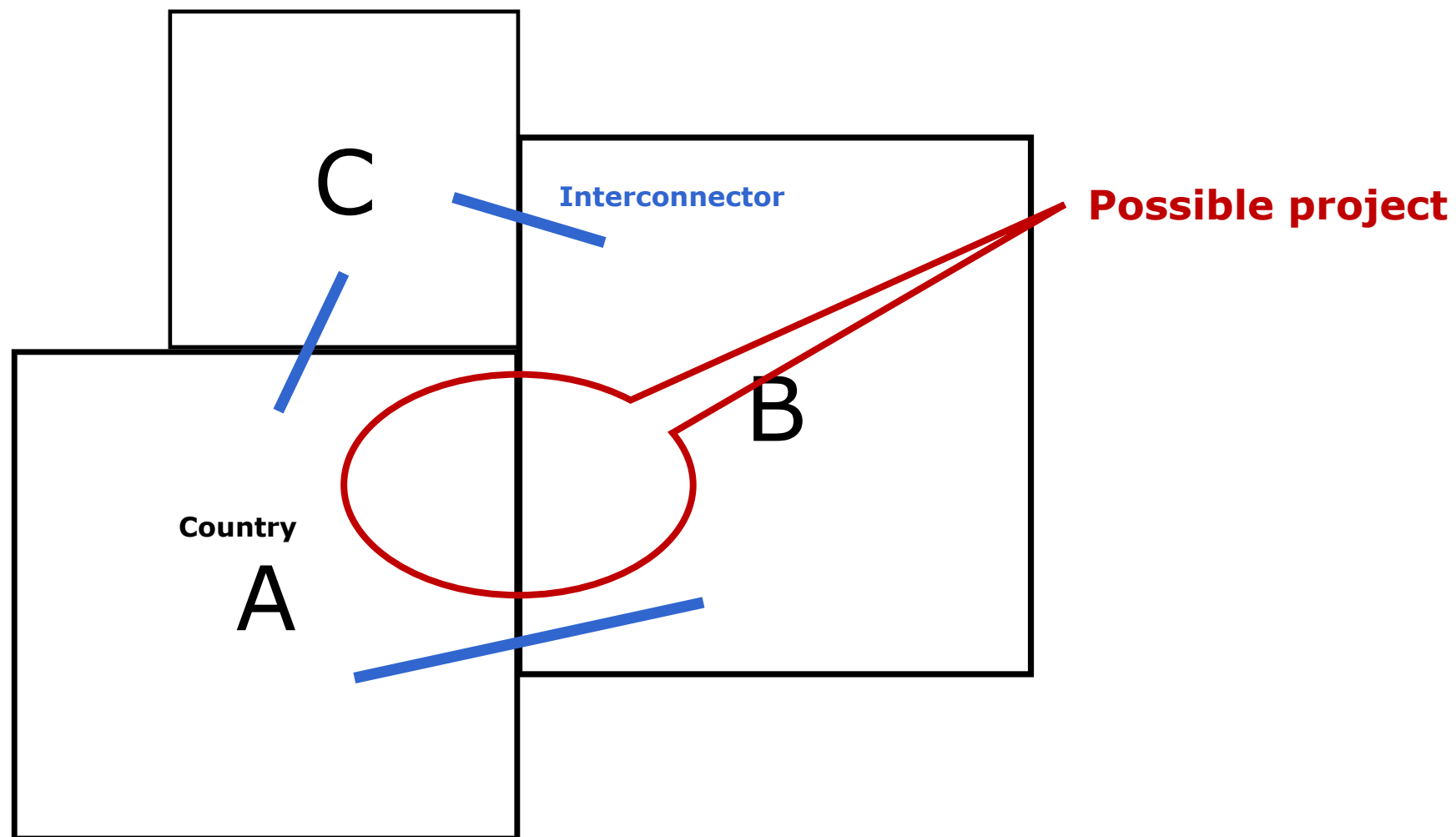
OR

•TSO_A & DSO_A +
TSO_B & DSO_B + IT
company

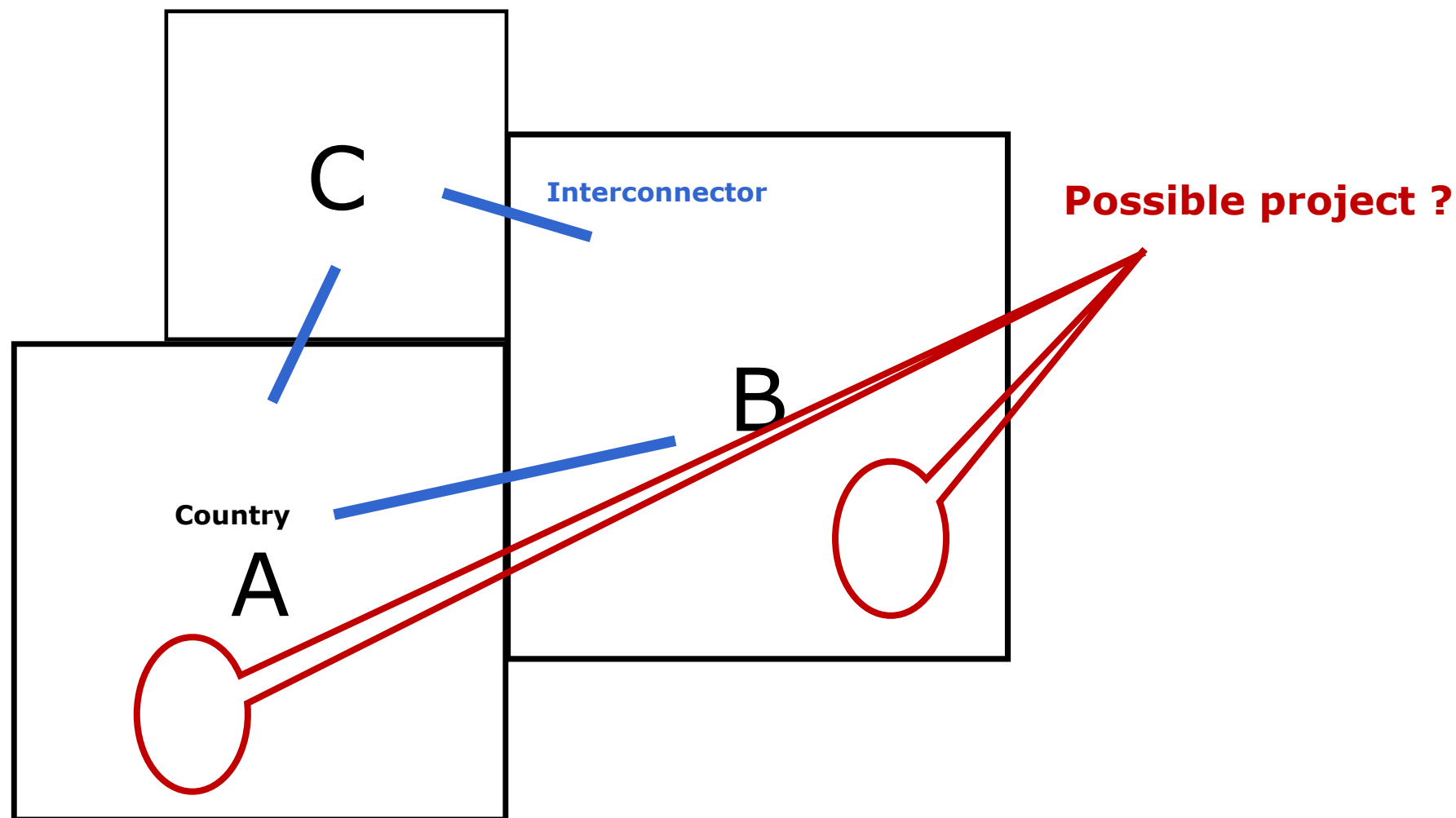
•A: 10,000 users, 60
GWh, 50% NDR

•B: 90,000 users, 250
GWh, 12% NDR

Which projects are we looking for?



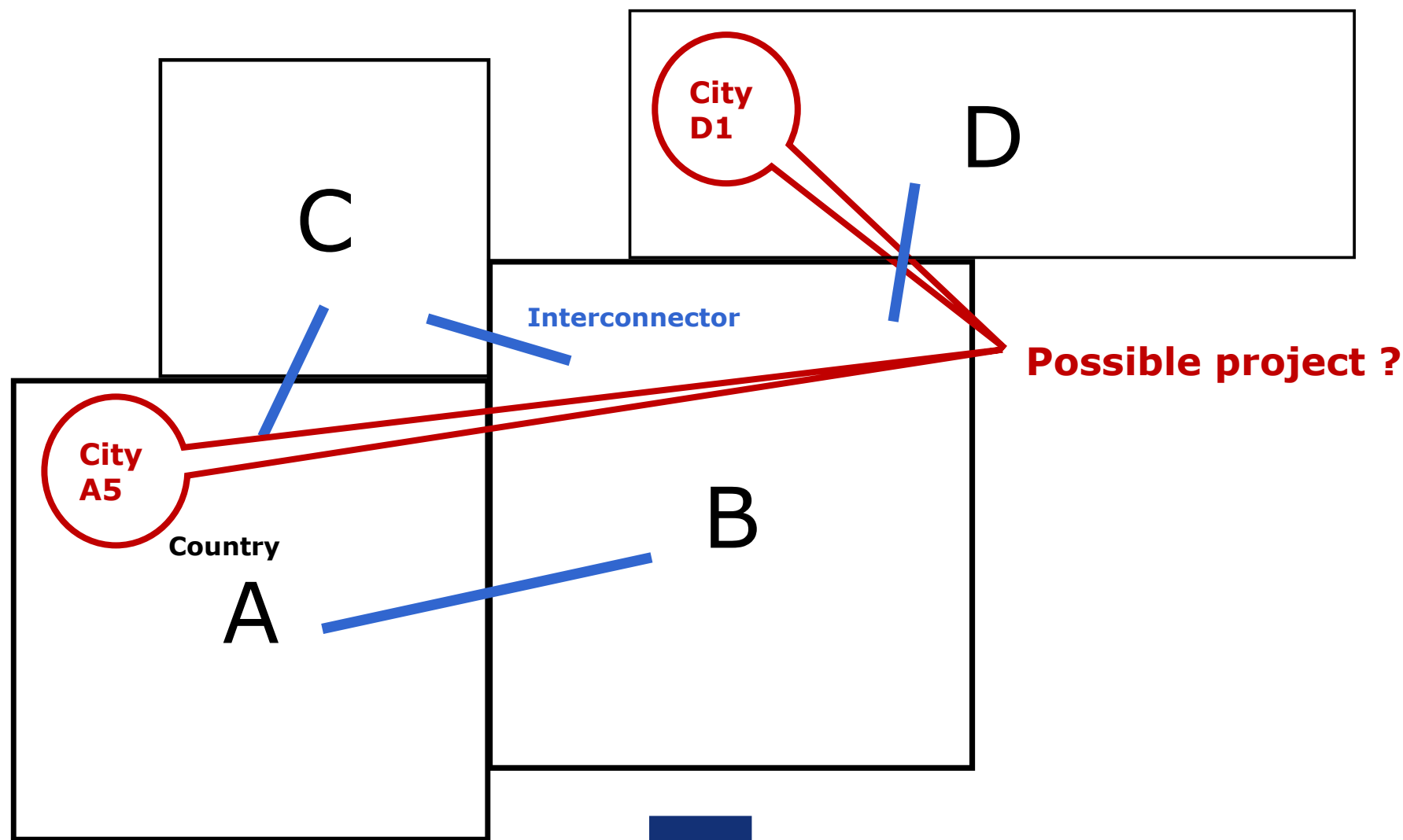
Which projects are we looking for?





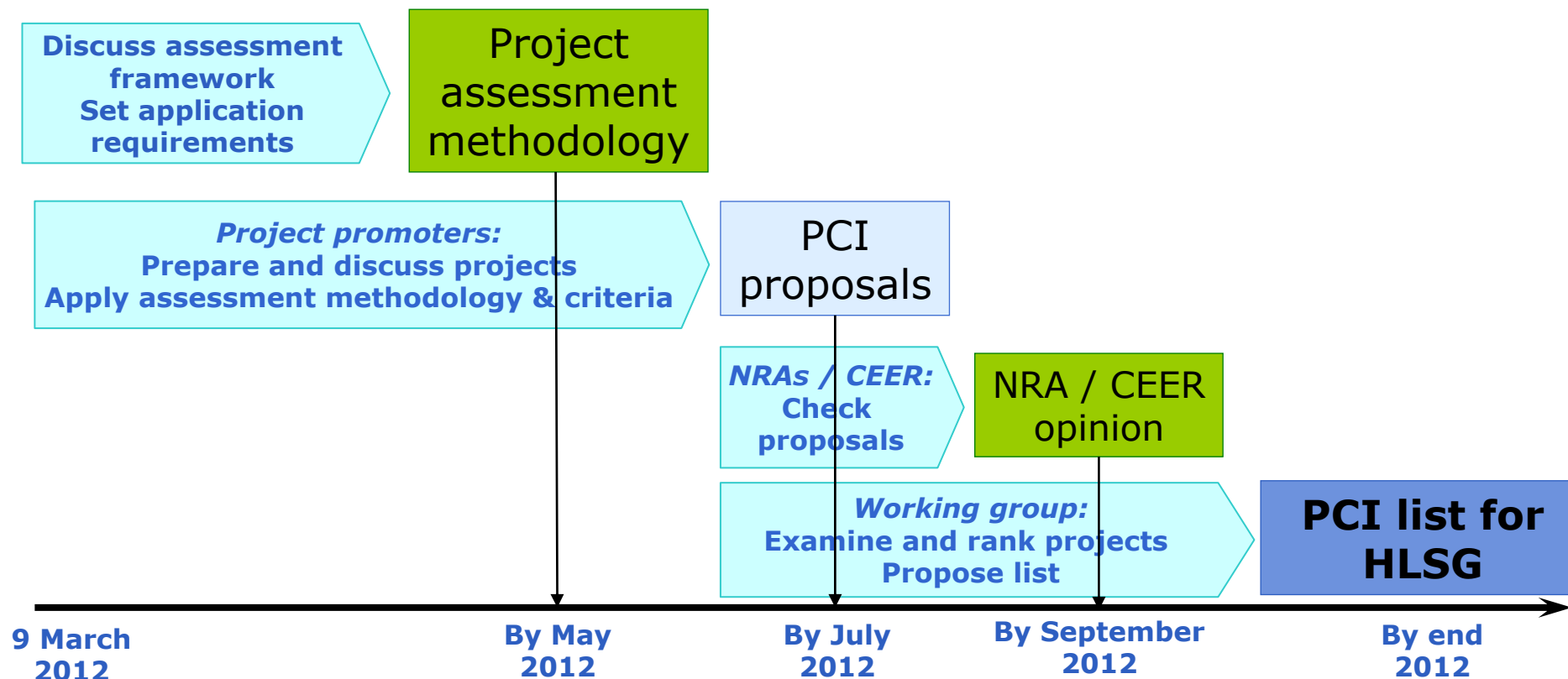
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Which projects are we looking for?



Smart grid PCI identification in 2012

Step by step



Tentative timetable 2012

Kick off meeting 9 March 2012	Presentation of proposed procedure for PCI identification Presentation and discussion of proposed project evaluation framework
2nd EG4 meeting May 2012	Agreement on procedure for PCI identification Finalisation of project evaluation framework (common methodology and criteria) First PCI proposal presentations
3rd EG4 meeting July 2012	Presentation of remaining PCI proposals and full list of submitted projects
4th EG4 meeting October 2012	Presentation of NRA/CEER analysis
5-xth EG4 meeting November / December 2012	Working Group examining and ranking proposed PCIs

Thank you for your attention

