European Commission

THE EU FRAMEWORK PROGRAMME
FOR RESEARCH AND INNOVATION

HORIZON 2020

Electricity Grid Energy Storage

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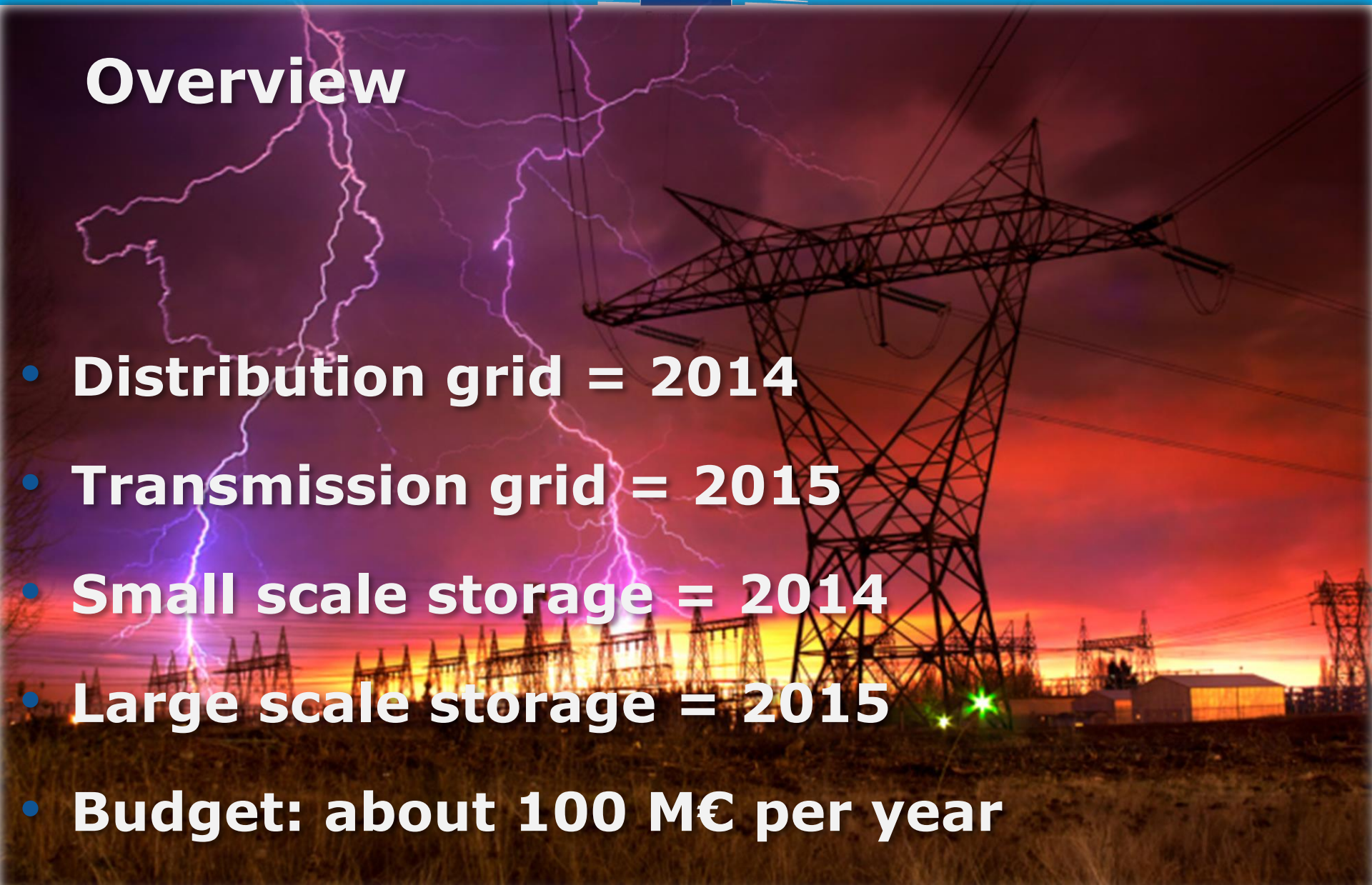
Overview



- Distribution grid = 2014
- Transmission grid = 2015
- Small scale storage = 2014
- Large scale storage = 2015
- Budget: about 100 M€ per year

Overview Call 2014
104.45 M€
deadline 7/5/2014

- **Grid 2014: 60 M€**
  - **LCE-7: Distribution Grid**
- **Storage 2014: 44.15 M€**
  - **LCE-8: Local/Small Scale Energy Storage**
  - **LCE-10: Next Generation Energy Storage**

Overview Call 2015: 97.48 M€ deadline 3/3/2015

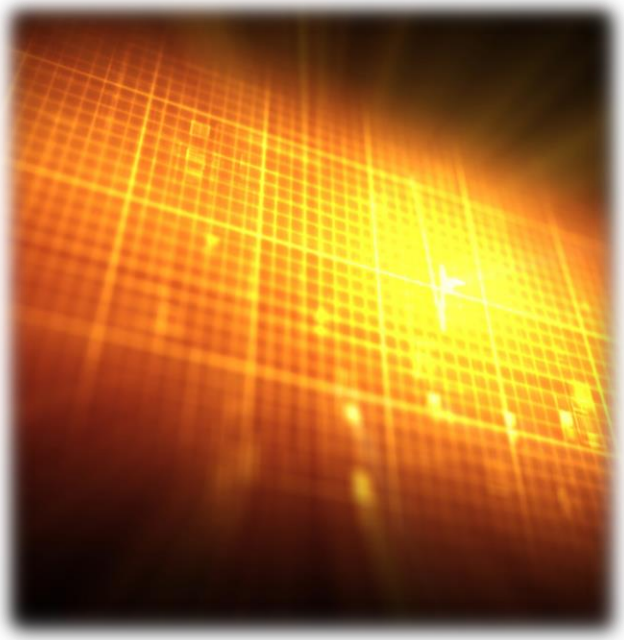
- **Grid 2015: 71.48 M€**
  - **LCE-5: Meshed HVDC off-shore Grid**
  - **LCE-6: Transmission grid and wholesale market**
- **Storage 2015: 26 M€**
  - **LCE-9: Large Scale Energy Storage**

Grid 2014: 60 M€ *

- **LCE-7: Distribution Grid**

1. **Development of ICT tools and services for smart grids**
   (3 to 4 projects of about 2.5 to 3 M€)
2. **Demonstrate innovative demand response in the real grid**
   (3 to 4 projects of about 9 to 12 M€)
3. **Cheap smart meters (< 100 €)**
   (3 to 5 projects of about 2.5 to 3 M€)
4. **Study best future ICT infrastructure**
   (1 project: about 1 M€)

- **Budget for 2 = 38 M€;**
- **for 1 + 3 + 4 = 22 M€**



Storage 2014: 44.15 M€

- **LCE-8: Local/Small Scale Energy Storage**

  TRL: from 5-6 to higher (demonstration)

  (projects of about 8 to 12 M€)

- **LCE-10: Next Generation Energy Storage**

  TRL: from 2 to 5 (research)

  (projects of about 6 to 9 M€)

Grid 2015: 71.48 M€

- **LCE-5: Meshed HVDC off-shore Grid**
  1 to 2 projects about 30 - 40 M€

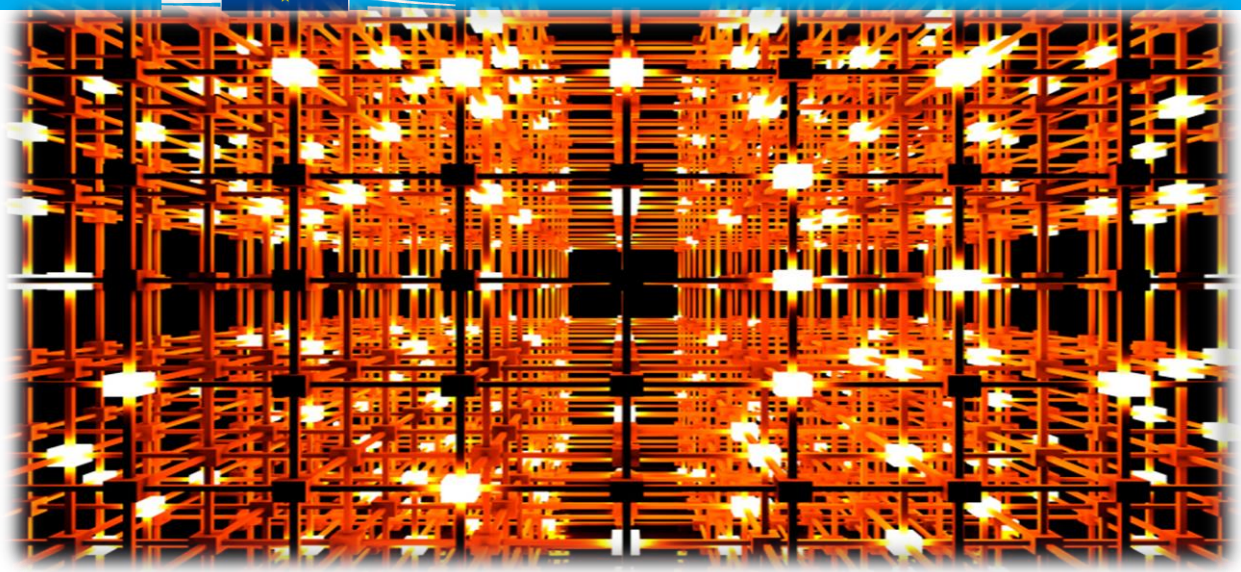
- **LCE-6: Transmission grid and wholesale market**
  2 to 3 projects: about 12 - 15 M€

Storage 2015: 26 M€

- **LCE-9: Large Scale Energy Storage**

project size:
about 20 - 25 M€
one, maybe two projects

Integrated approach



- **All demonstration projects shall integrate**
  - **Innovative Technology development**
  - **Innovative Business models**
  - **Develop plans for market uptake**
  - **Check existing market barriers and work out proposals for solutions (policy, legislation, regulation, etc.)**

Thank you very much for your attention