

EIB Energy Lending

*Available funding for the development of
energy storage solutions*



The European Investment Bank – The EU Bank

Profile, Public policy goals and objectives

- European Union's long-term lending bank set up in 1958 by the Treaty of Rome
- A not-for-profit, policy driven institution
- Shareholders: 28 EU Member States
- Largest supranational lender: signatures in 2013 amounted to EUR 75bn (90% in EU)
- Supporting sound investments which foster EU policy goals

Growth and employment potential

Knowledge economy

Strategic transport (TEN-T)

Competitive and secure energy

Small and Medium Enterprises (SMEs)

Urban renewal and regeneration (incl. health care)

Environmental sustainability

Environmental protection

Renewable Energy, Energy Efficiency

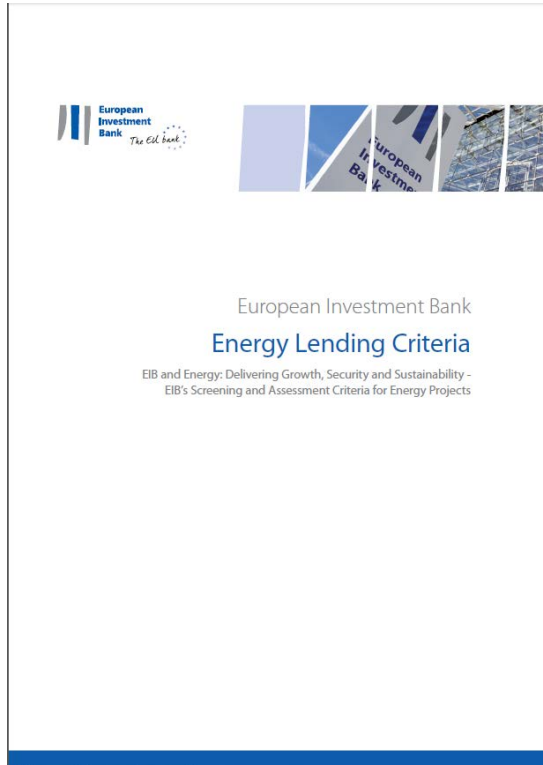
Sustainable transport (urban, inter-urban)

Cohesion (primary, transversal)

Climate action (primary, transversal)

- Last comprehensive energy sector lending review 2007
 - Energy identified as priority objective
 - Renewable Energy and Energy Efficiency prioritised
 - Specific criteria for coal projects
- Energy sector lending over EUR 70bn and 500 projects since 2007
 - 15-20% total lending
 - 90% to EE, RE and networks
 - substantial technical assistance
- Significant part of Climate Action lending
- Extensive public consultation for review
 - Public meeting, > 80 written responses, Input from MEPs, member states, industry, NGOs and public authorities, Meetings with key stakeholders
 - Consultation report and matrix published

<http://www.eib.org/about/partners/cso/consultations/item/public-consultation-on-eibs-energy-lending-policy.htm>



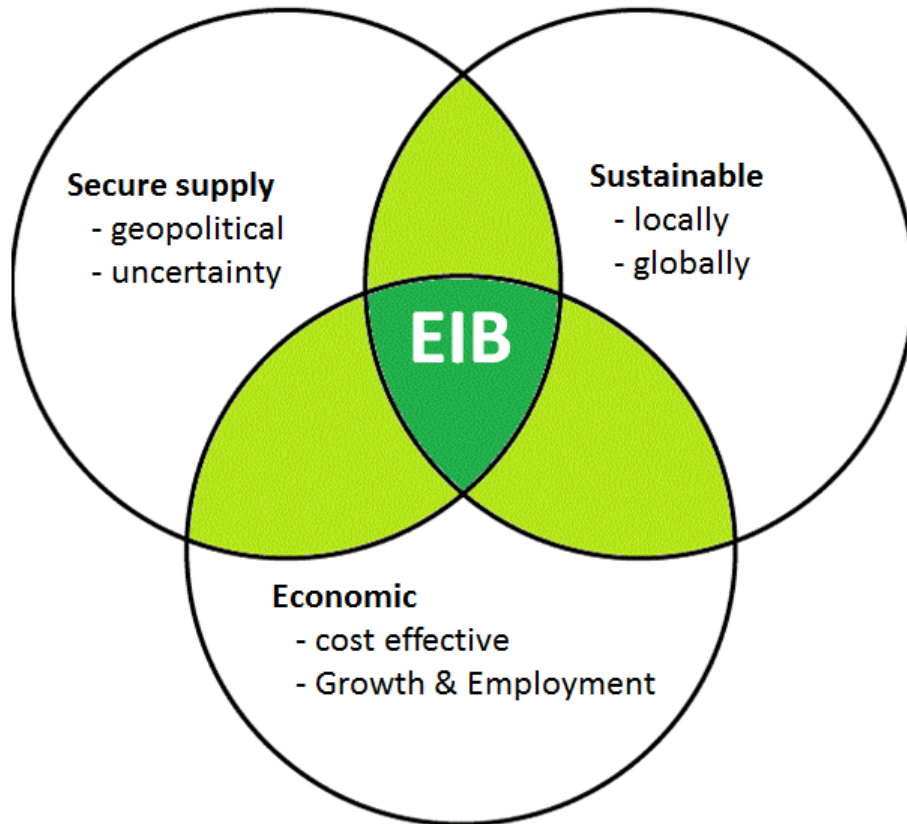
- Review balances EU energy and climate policy objectives by:
 - Prioritising “no regrets” sectors: energy efficiency, renewable energy, networks and RDI
- Supporting other economic investments in the sector which promote EU policies where these are environmentally sustainable:
 - Emission performance standard for fossil fuel generation
 - Nuclear and shale gas projects screened for their environmental sustainability

<http://www.eib.org/infocentre/publications/all/eib-energy-lending-criteria.htm>

Fully aligned with EU energy and climate policy

EIB and the Energy Sector

The 3 Pillars of Energy Lending Criteria



Energy Lending Priorities :

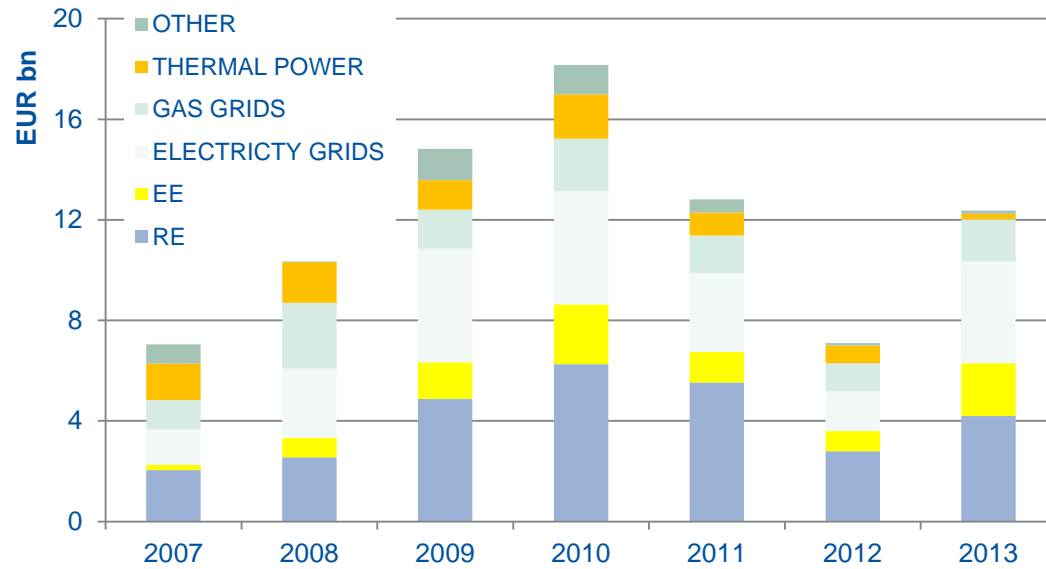
- Renewable energy – RE
- Energy Efficiency - EE
- Security of energy supply
- RDI – Research, Development & Innovation
- Outside the EU - External energy security and economic development

Blending, Advising activities

- Technical assistance
(e.g. ELENA for sustainable energy, NER300 for innovation)
- Equity and EU-EIB risk sharing facilities
(InnovFin (RSFF), LGTT)

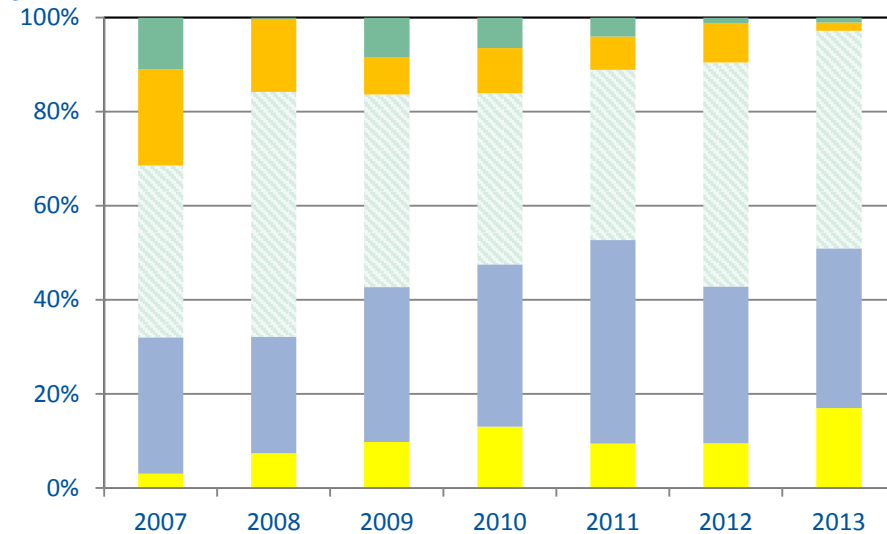
EIB Energy Lending by Technology Sector

2007-2013 Signatures



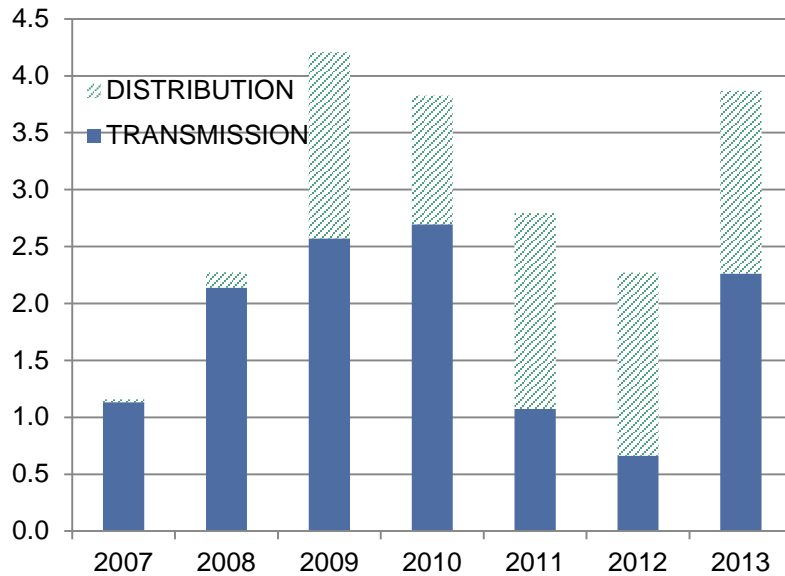
- EUR 72bn over the period for renewables, energy efficiency and grids

- ~25% to 30% of annual loan signatures to electricity grids



Breakdown of lending to electricity networks

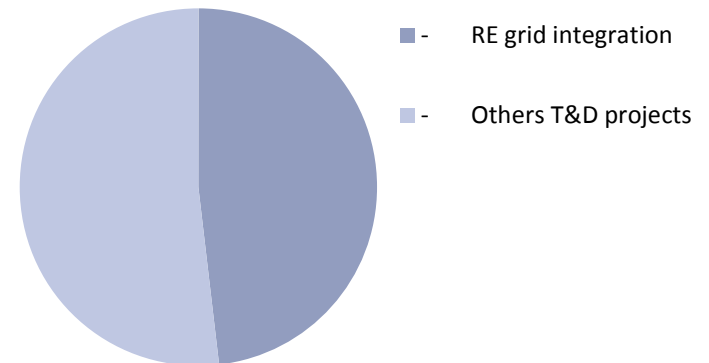
EIB lending criteria 2013



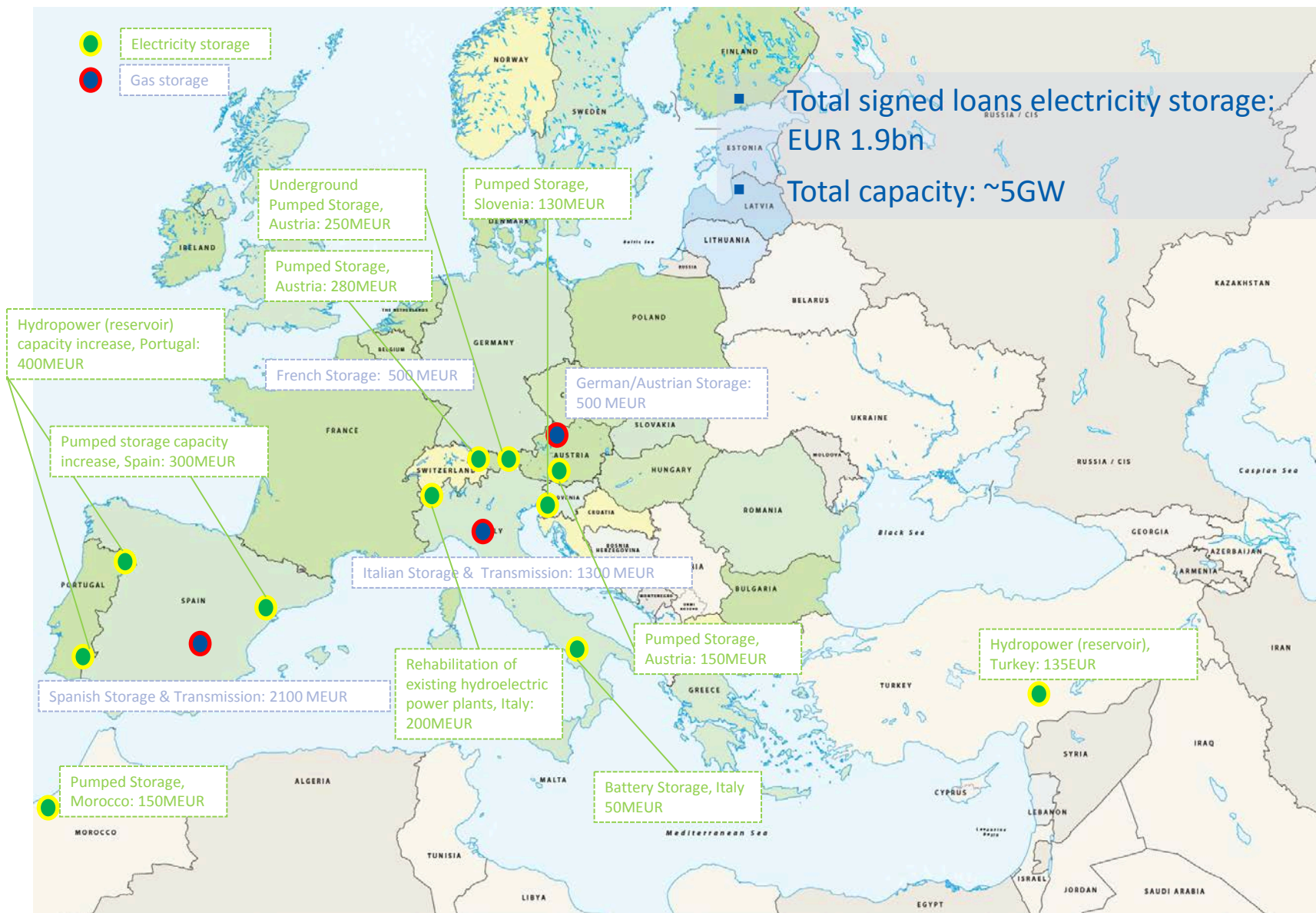
Lending objectives

- transmission projects that contribute to bulk RES integration,
- support market integration (Projects of Common Interest (PCIs))
- secure reliability of supply across the EU;
- distribution investment programmes, including roll-outs of smart meters

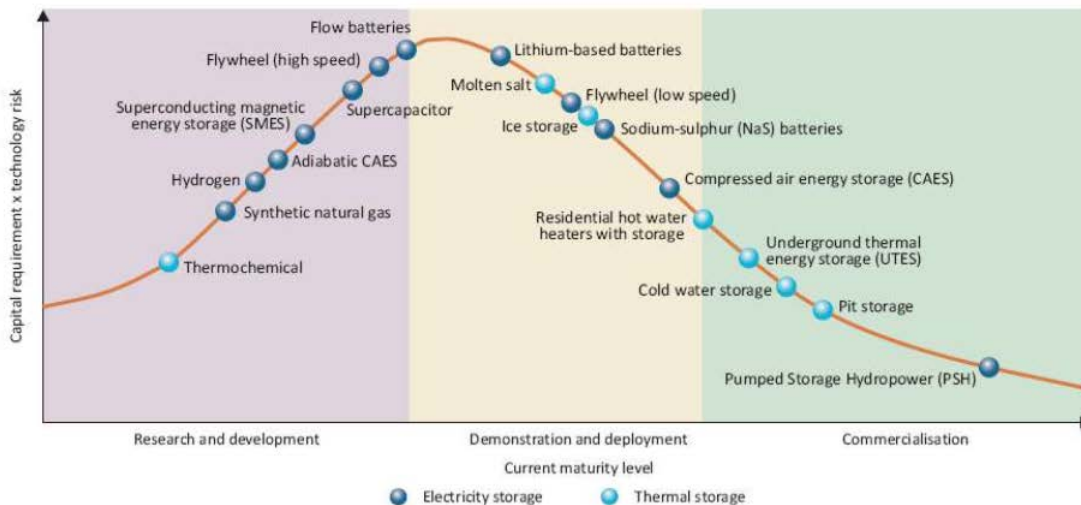
- 2013 ~EUR 4bn loans
- Nearly 50% to finance network investments for RE grid integration



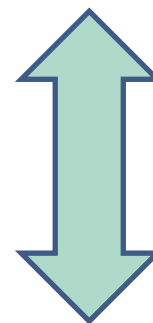
EIB supported storage projects (2007-2013)



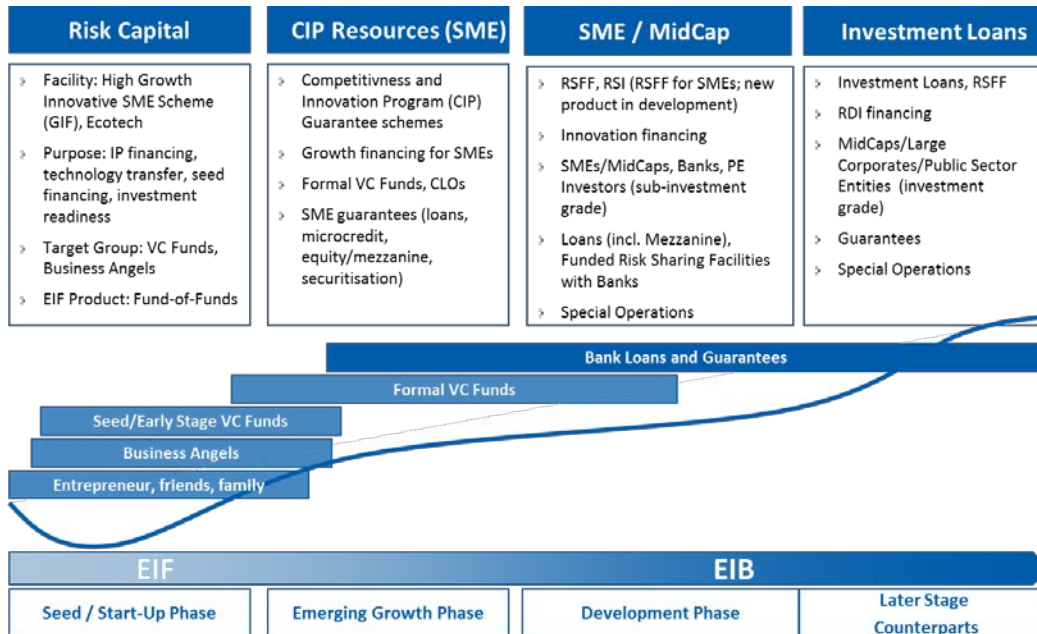
Available funding products for Energy Storage



The variety of different energy storage technologies at various maturity levels



is matched by the variety of EIB Group finance products



- Joint initiative launched by the EIB Group and European Commission under Horizon 2020
- Integrated and complementary financing tools and advisory services
- Covering the entire value chain of research and innovation (R&I) in order to support investments from the smallest to the largest enterprise
- Available across all eligible sectors under Horizon 2020, in EU Member States and Associated Countries
- Expectation by 2020: >EUR 24bn of debt and equity financing available to innovative companies to support EUR 48bn of final R&I investments.

<http://www.eib.org/products/innovfin/index.htm>



- 3 NER300 DRM categories:
Rural predominant solar, Rural predominant wind, Urban
- 5 Project Applications received in all 3 sub-categories
- 3 projects attributed for NER300 funding
- total NER300 funding amount for DRM projects: ~100 MEUR

- Project 1:
BE, Slim; 5 smart grid building blocks: CVPP (Commercial Virtual Power Plant), TVPP (Technical Virtual Power Plant), Smart Grid communication, New Power Market and TSO observability to accommodate high penetration of renewable generation capacity.
- Project 2:
CY, Green+; conversion of a region with a traditional grid to a micro-grid concept to address distribution network operation issues, such as voltage, frequency, power quality parameters and balancing renewable generation
- Project 3:
IT, Puglia Active Network; active large-scale network management at distribution level to accommodate large quantities of renewables, active control of power flows, facilitation of demand response, ancillary services to control supply quality, reduction of network losses and vehicle-to-grid service from electric vehicle battery storage

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