

CORALIS EUSEW 2021

Financing and Business of Industrial Symbiosis

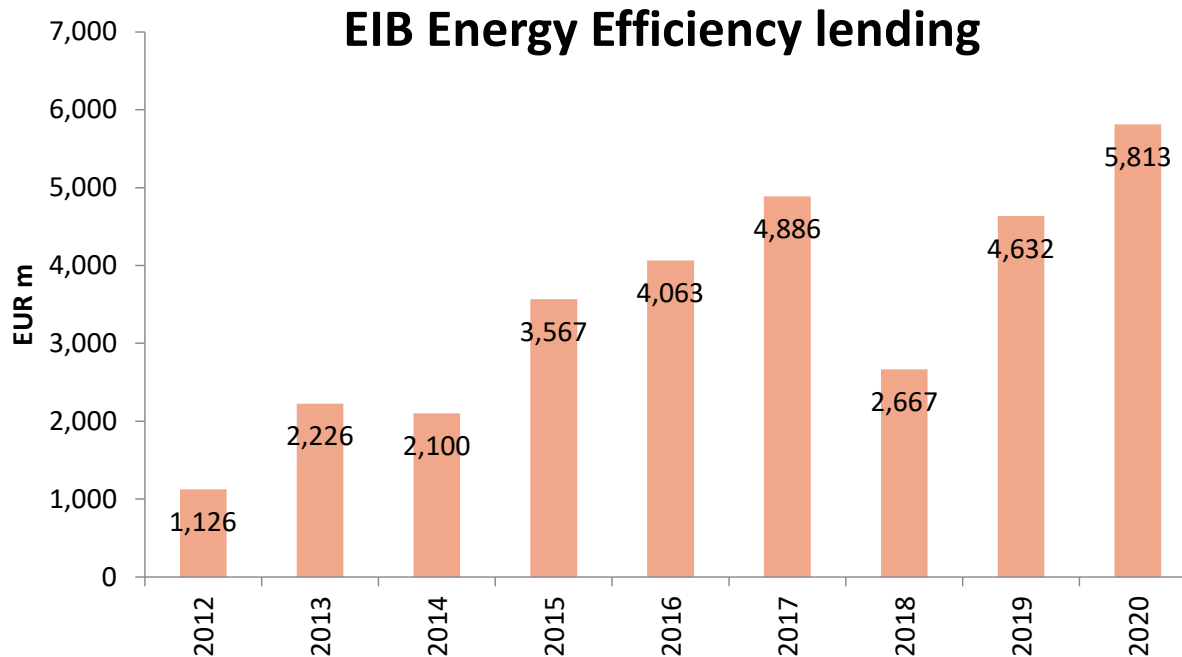
Isidoro Tapia

Senior Economist. Energy Efficiency division, EIB

14 October 2021

EIB Energy Efficiency lending

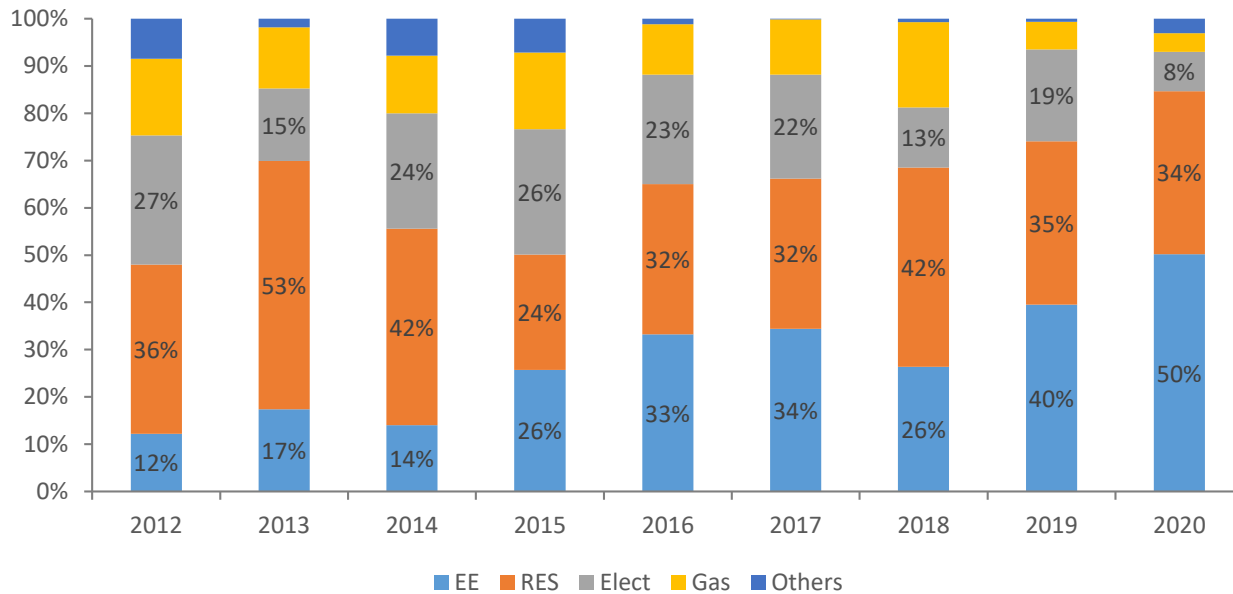
- Energy Efficiency (EUR 5.8bn in 2020) has rapidly increased since 2012 (EUR 1.1bn)



EIB Energy Efficiency lending

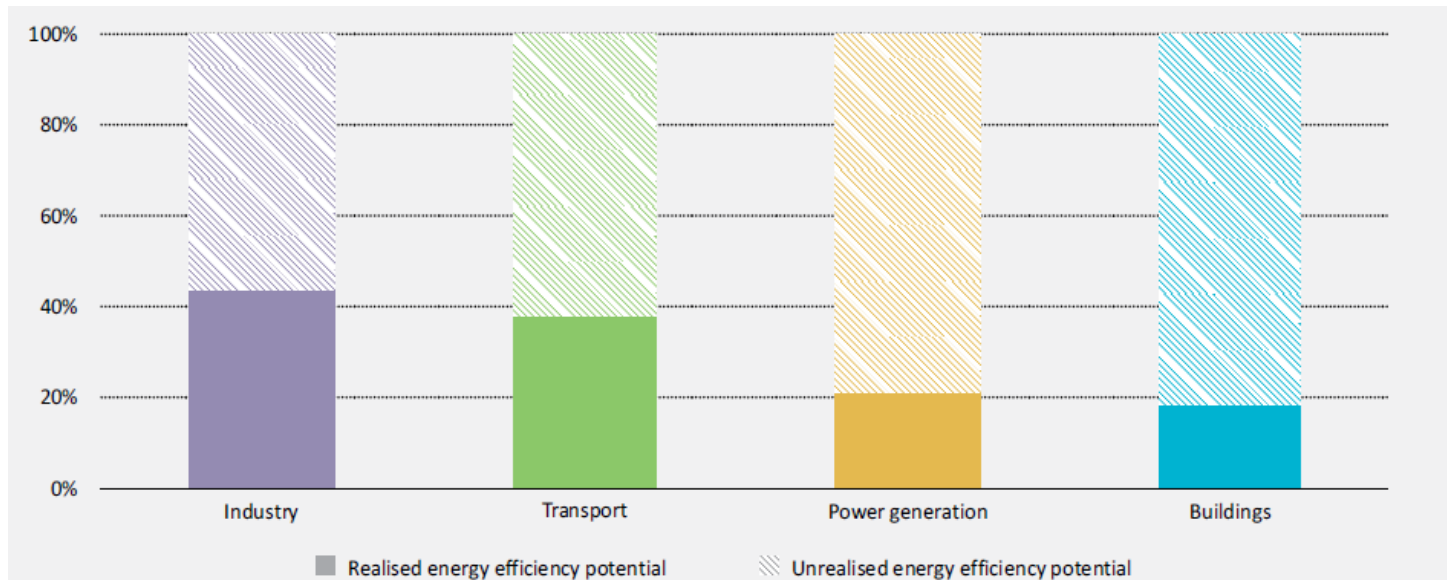
- Energy Efficiency (with 50%) has become the largest energy subsector

Overall Energy lending (%)



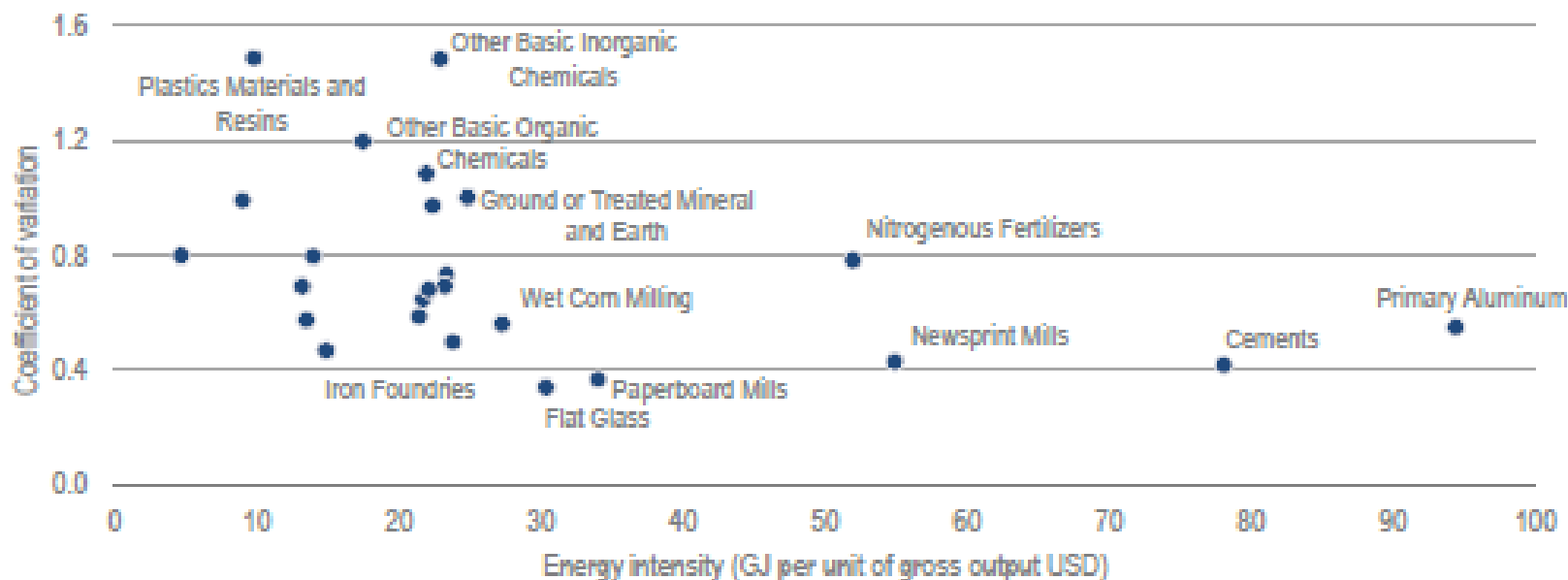
EE in industry: where is the potential?

- EE in industry more developed, but still a lot of unrealized potential, in particular in SMEs



EE in industry: more potential unrealised in SMEs and less energy-intensive industries

- Historically energy intensive industries have invested in reaping most EE benefits

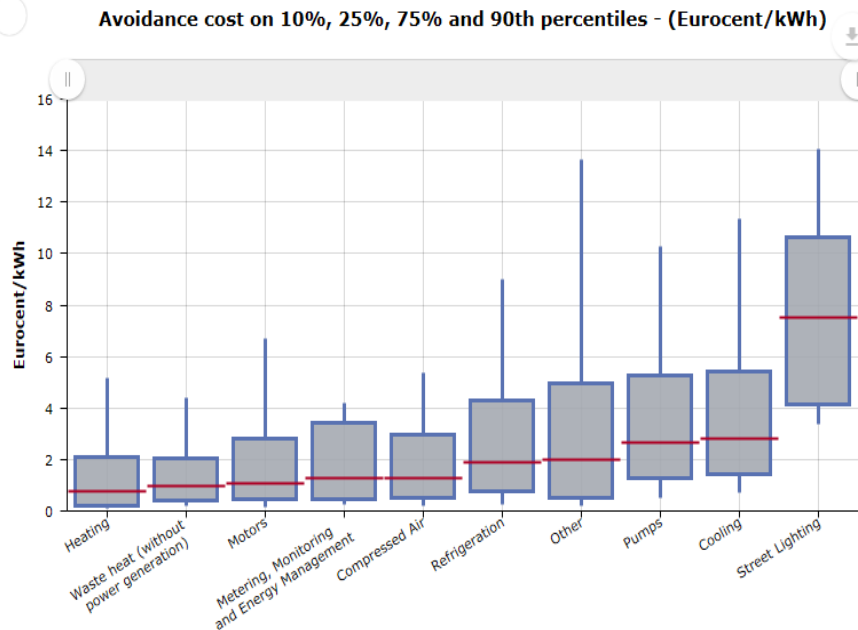


Source: Boyd et al. (2011). *Preliminary Analysis of the Distributions of Carbon and Energy Intensity for 27 Energy Intensive Trade Exposed Industrial Sectors*.

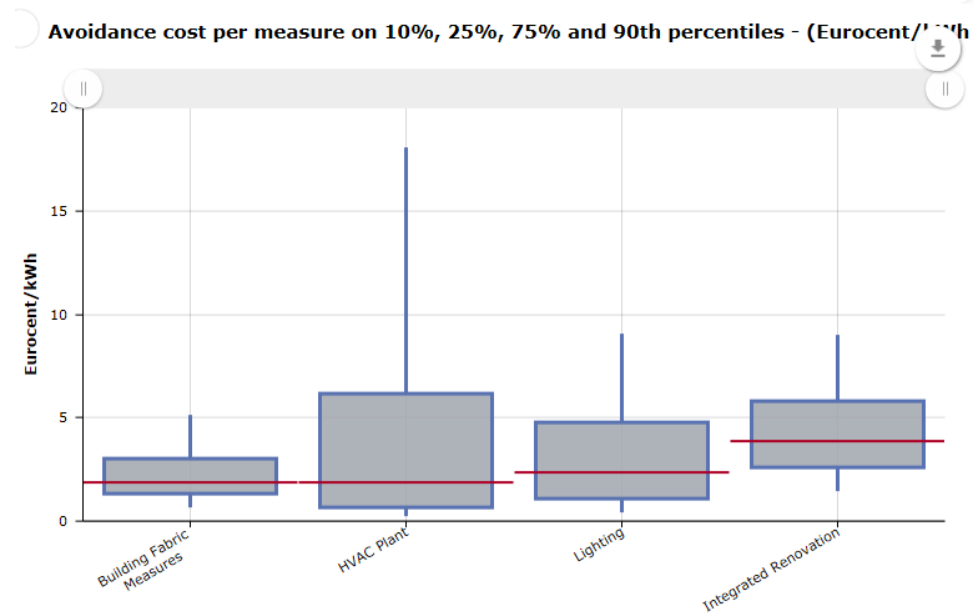
EE in industry: less scope for standardisation

- EE in industry is more process-oriented – EE measures less easily standardized
- EIB requires energy audits to confirm eligibility

Industry

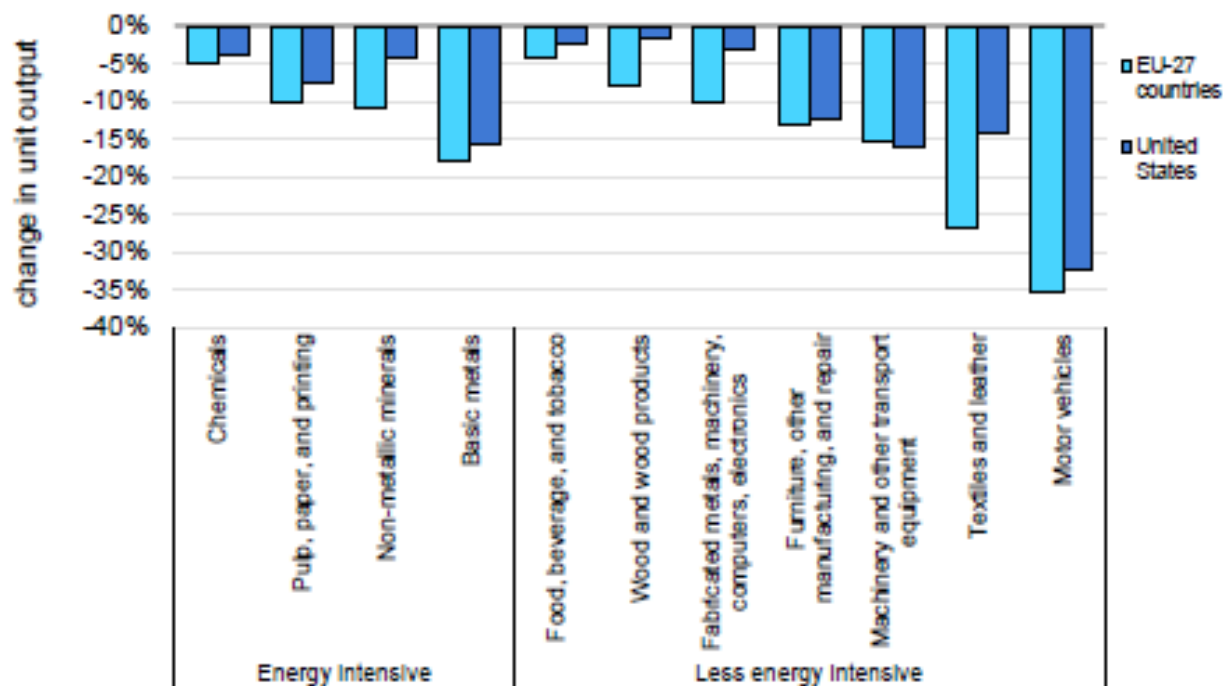


Buildings



Energy Efficiency and COVID19: opportunity or challenge?

- Energy-intensive industries have performed better
- Post-crisis 2008-09 stimulus favored more energy-intensive industrial output – rapid rebound



ELENA EPC related supported projects

ELENA EPC related Projects:

- 50 projects include ESCO/E
- 26 projects completed;
- 24 ongoing projects;
- Expected Investment: EUR
- Expected TA: EUR 74.6m;
- 17 countries.



Case study: Modernization of paper manufacturer

- Potential energy optimisation measures, leading to an investment plan of ca. 60-80 MEUR over 3-5 years, mainly in energy efficiency and renewables.
- The proposed measures are all profitable under the current context, and are expected to result, overall, in a reduction of around 30% the group's CO2 emissions. This plan is part of a larger decarbonisation strategy.

-Other examples:

- *Energy efficiency obligations under the EED
- *White certificates