

Energy Savings insurance & Energy Efficiency as a Service Innovative tools to boost investments

Covenant of Mayors Investment Forum

- Energy Efficiency Finance Market Place 2021 -

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ABOUT BASE

WHAT WE DO

Business models and financing instruments for:



RENEWABLE ENERGY



ENERGY EFFICIENCY



ENERGY ACCESS



ELECTRIC MOBILITY



CLIMATE FINANCE



ABOUT BASE





2. Opportunity vs. Challenge

- Small projects
- EE require higher upfront investments than "conventional" solutions
- Lack of TRUST
- EE compete with other investment priorities
- Not a priority



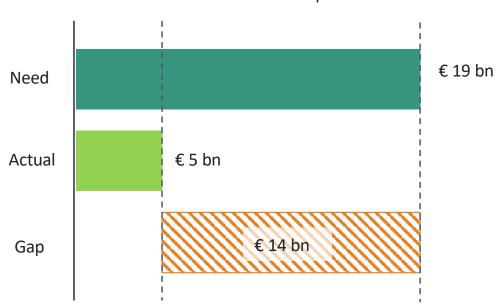


3. SMEs





EU Annual Energy Efficiency/Demand side Investment Need vs Gap





3. Large + SMEs

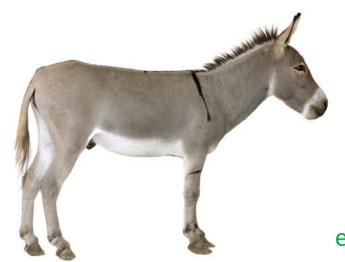
- 25 million enterprises 99.8% are SMEs
- Collective energy consumption of SMEs is considerable.
 - Italy SMEs 70% of total industry energy use (Trianni and Cagno, 2011)
 - UK SMEs 45% of total industry energy use (Middlesex University, 2009).
 - China SMEs 2.5 times the energy of large manufacturing firms (IFC, 2012).
 - USA SMEs 50% of total industry energy use (Trombley, 2014)
 - Australia SMEs 50% of of total industry energy use.
- Energy efficiency policies are design for large energy consumers (not SMEs)



4. Policy vs. reward

Policies / regulation





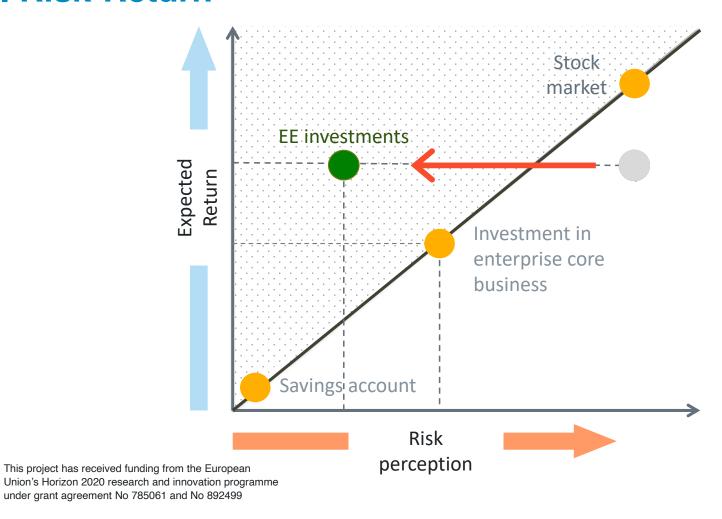
Rewards



Investment Opportunities



4. Risk-Return





4. Business models/ financing strategies

- Energy Savings Insurance (ESI)
- Efficiency as a Service (EaaS)



Energy Savings Insurance (ESI)

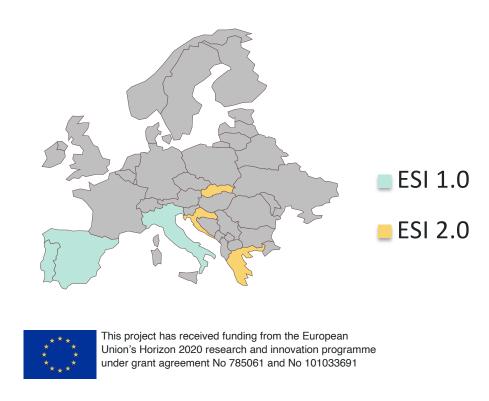


5. Energy Savings Insurance

ESI – Latin-America



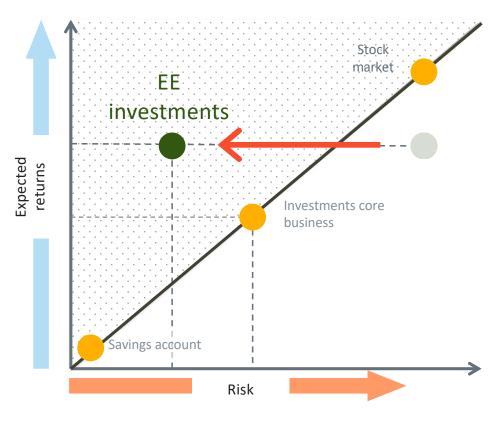
• ESI – Europe

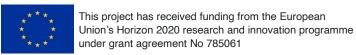




5. ESI Rationale

Risk-return tradeoff















5. ESI Components





Contract

Technology provider - SMEs



Energy Savings Insurance

Guarantees the guarantee



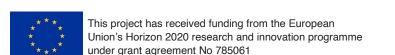
Technical Validation

Referee



Green Financing

Funding







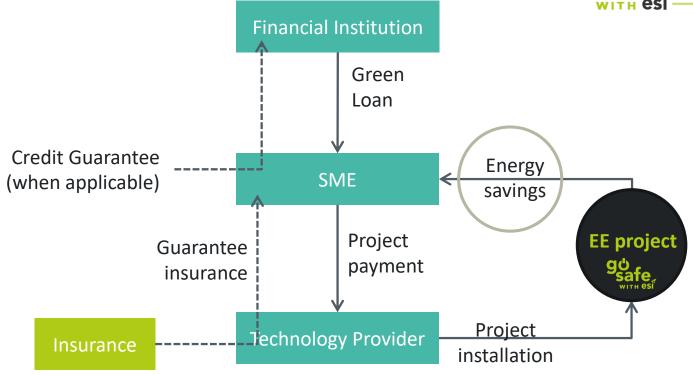






5. ESI Financial Flow Diagramme







This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 785061











5. ESI - Insurance



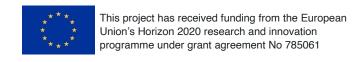


Insurance policy for SME on not achieved energy savings, and when Provider cannot fulfil commitments.

- Guarantees the guarantee
- Provided to robust and reliable Providers



BUILD TRUST







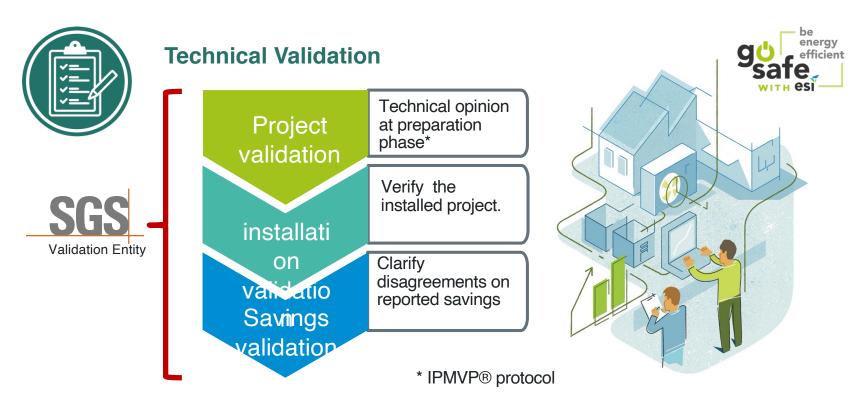






5. ESI - Validation







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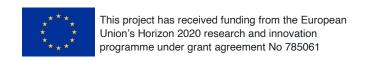
5. ESI - Management Information System





Online Platform

- ✓ ONLINE PLATFORM
- ✓ FACILITATE WORKFLOW
- ✓ INFORMATION ACCESS STAKEHOLKDERS
- ✓ DEVELOPED IN BLOCKCHAIN
- ✓ TAILORED ACCESS
- ✓ REPORTING















5. ESI - Technologies









Motors



Air Compressors



Boilers



Refrigeration



HVAC



Co-generation



Photovoltaic Panels



Solar water heaters













5. ESI – Insurance companies



♦Italy:



♦Portugal:







♦Spain:







6. Business models/ financing strategies

Efficiency as a Service (EaaS)



6. EaaS

game-changing business model that makes efficient and high-tech efficient competitive with cheaper, less efficient systems through a payper-use model.

The EaaS project aims to develop and deploy the servitisation model and a financial structure to enable the transition and accelerate the **market adoption of energy efficient solutions** by Small and Medium-sized Enterprises (SMEs) in Belgium, the Netherlands and Spain.





6. EaaS Rationale









Benefits for customers

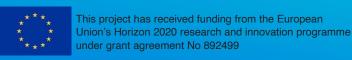
- No capital expenditure
- Reduced operating expenses
- Service is off-balance
- No more performance risks
- Full out-sourcing of service
- Customer can focus and invest in core business

Benefits for technology providers

- Deploy full potential of technology
- Increase demand for energy efficient solutions
- Predictable and continuous revenue streams
- Bringing additional value by selling outcome instead of selling equipment and parts

Benefits for banks & investors

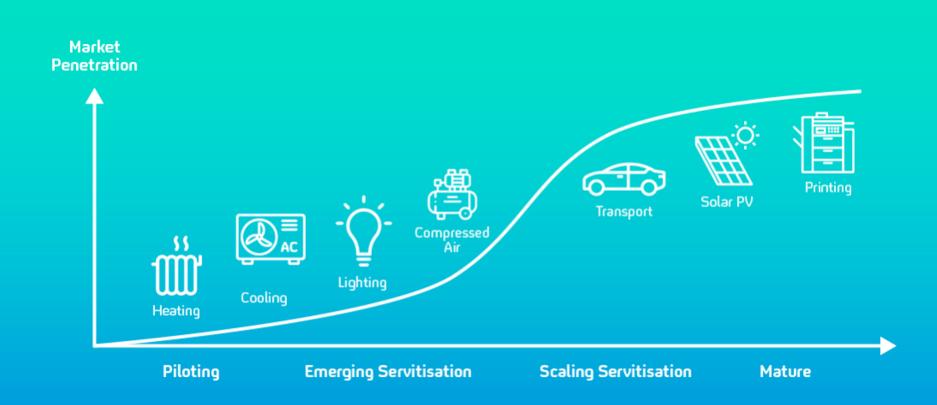
- Opportunity to place green funding
- Become front-runner to finance servitisation models (new trend)
- Investing in assets generating cashflows



Servitisation is not new, its adoption has been growing rapidly across industries

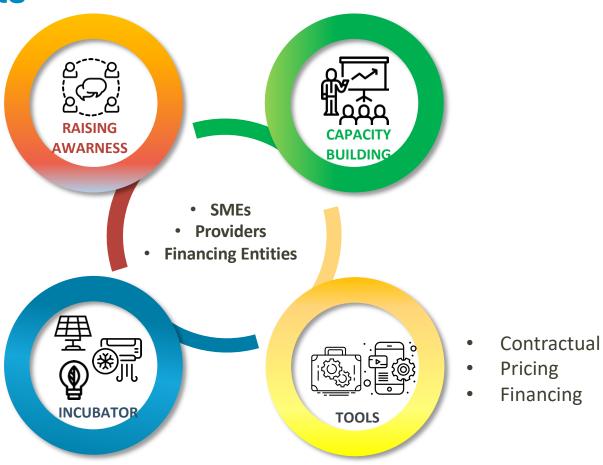


6. EaaS Rationale

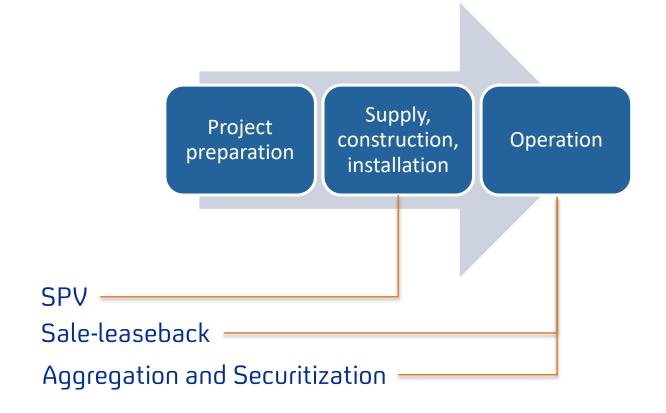




6. EaaS - Components

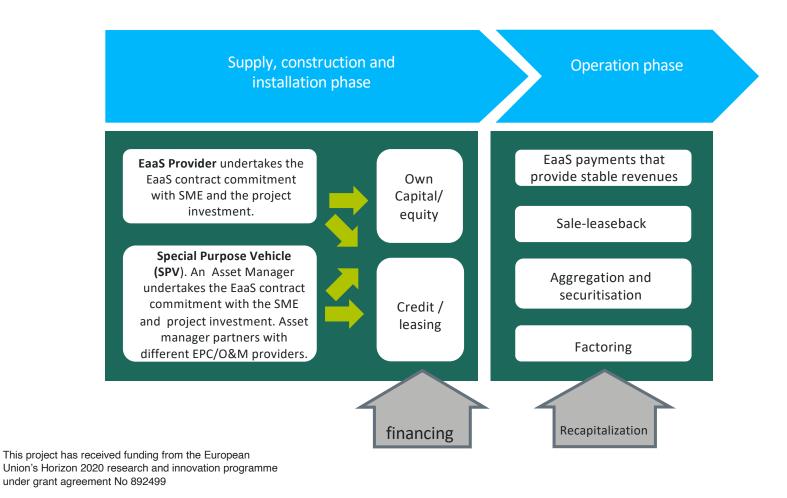




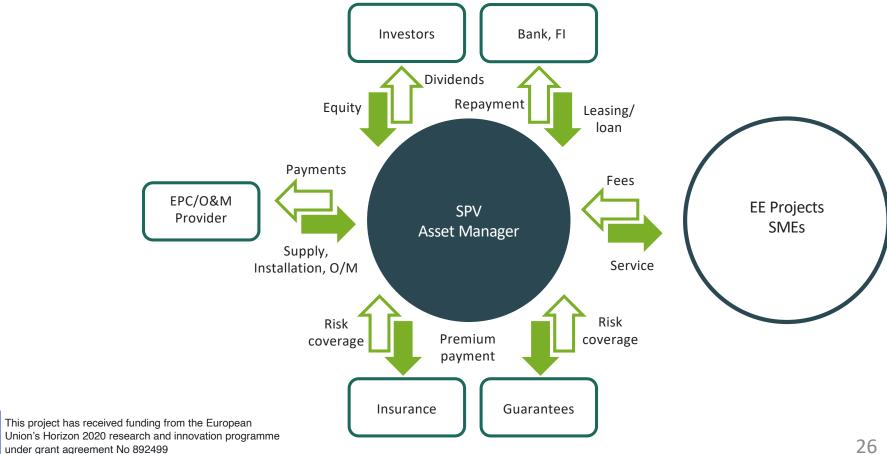




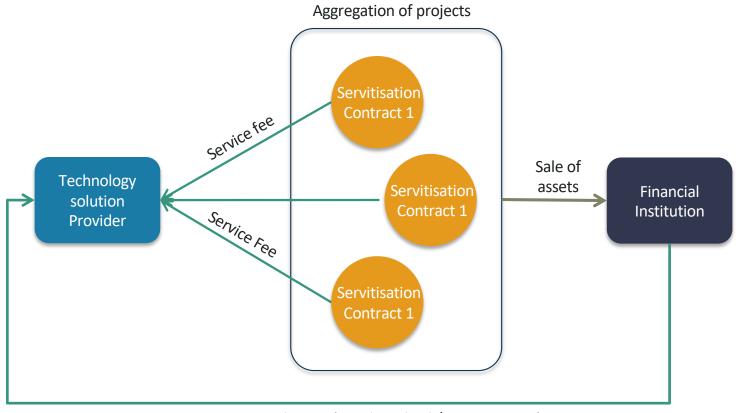




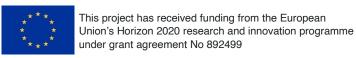








Capitalisation(e.g. leaseback/ securitisation)



THANK YOU FOR YOUR ATTENTION

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