



CEESCO – financial innovation to make Central & Eastern Europe's buildings warmer, cheaper and greener

Introduction & problem space

- Buildings produce 36% of EU greenhouse gas emissions. In CEE, 75% of the building stock must be upgraded to meet EU 2050 emission reduction target
- Energy Service Companies (ESCOs) install energy efficiency equipment in buildings
- ESCOs recoup their investment by taking a share of energy cost savings over 10-15 yrs
- Investment is typically financed by 5-10 yrs loans
- The timing mismatch between loan maturities and ESCO project lengths mean ESCOs reach their debt capacity quickly and struggle to scale
- Capital access restrictions inhibit growth for end users and ESCOs to save costs and reduce emissions

Solution [financial innovation]

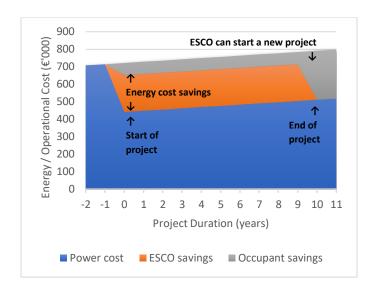
- CEESCO is a forfaiting solution, which purchases energy saving projects' future accounts receivables at their net present value, less an admin fee
- These up-front funds inject new capital into ESCOs, allowing them to reduce debt and rapidly scale their businesses with further energy saving projects
- To finance the forfaiting, CEESCO issues green bonds against a given group of ESCOs to investors
- Over an ESCO project's duration, CEESCO will collect accounts receivables from the building occupant and settle power bills. With residual cost savings, it will issue semi-annual coupons to its bond holders, and earn a margin for CEESCO equity holders



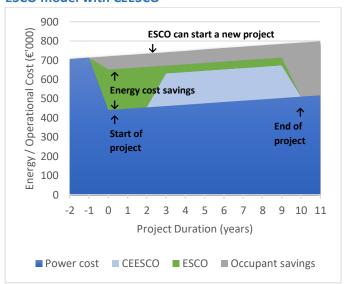
Key product metrics

Lithuania ESCO market size	€350m
Initial issue size	€10m
Maturity	15 years
Number of projects	10-20
Energy savings range	20-55% reduction
Green bond coupon	6%, semi-annual

ESCO model without CEESCO



ESCO model with CEESCO



Macro trends

- GDP growth in CEE is pushing demand for renovation of old building stock
- Large volume of inefficient soviet era buildings in CEE with potential for efficiency gains
- Energy efficiency is seen as a key component of energy independence strategy in CEE region
- New EU regulations for energy efficiency and carbon taxes are in the pipeline
- Demand is growing for green bonds with measurable impact from European investors
- Limited financing options available to ESCOs

Target pilot region - Lithuania



Kellogg-Morgan Stanley Sustainable Investing Challenge 2020



- Government subsidies New repayable subsidies up to 80% of the ESCO capital
- Non-active local banks Relatively small regional banks have no ESCO expertise
- Rising energy prices Growing energy costs will increase ESCO attractiveness
- Public Private Partnership (PPP) One of the most developed legal frameworks in Europe
- Expertise and connections Team has strong knowledge and network in the region

Pilot market & scalability

- CEESCO will initially target public sector buildings in Lithuania: hospitals, kindergartens, schools, police and fire stations, administrative buildings, etc. Lithuania pilot market size – 19.4m sqm of public buildings
- As per the Energy Performance of Buildings Directive Factsheet, 75% of the building stock is energy inefficient. In the case of public buildings this is estimated to be closer to 80% (especially in the target region)

- On average, non-residential buildings consume 300 kWh/sqm p.a. which translates to EUR 27/sqm/p.a.
- After Lithuania, CEESCO will scale in CEE with a stock of approx. 348m sqm of public buildings
- 9 countries with a total population of 96m: LT, EE, LV, PL, CZ, SK, HU, RO, BG

Key partnerships in pilot market

- Ministry of Energy, Ministry of Environment and Public Investment Development Agency (VIPA)
- Established ESCOs and the Lithuanian electric energy association (LEEA)
- Local energy company (Ignitis Group) and suppliers
- EU Energy Efficiency Bodies (<u>EEEF</u>) and European Think Tanks (The European Energy Institute)
- Investors local commercial banks (<u>SEB</u>, <u>Swedbank</u>) and asset managers (<u>BaltCap</u>, <u>Lords LB</u>)
- Local technical universities (<u>VGTU</u>, <u>KTU</u>)

Sustainable development goals tackled









Category	Risks	Mitigation	Partnerships
Legal	Consistency of ESCO legislation and	Create due diligence process	Law firms
	standards across jurisdictions		ESCO consultants
Quality	Lack of qualified ESCO specialists	Support local knowledge building	Energy efficiency associations
	Risk of low quality ESCO project	Ensure ESCO audits and legalities	Law and audit firms
Procurement	Risk of low supply of ESCO projects	Create value for local players	Law firms and ESCO consultants
	Risk of measuring the true impact	Ensure access to energy bills	Investors and governments
Financial	Creditability of A/R	Focus on public ESCO projects	Public building owners
	Risk of low energy efficiency gains	Work with the established ESCOs	Credit risk management firms
Market	Lack of trust in the local market	Hosting local ESCO seminar and	Local business dailies
		launching media campaign	EU/local energy efficiency NGOs

Roll-out plan

2020	2021	2022	2023	2024
Detailed financial modelling	OBuying out first A/R in Lithuania	○Adjusting and scaling –LV, EE	○Adjusting and scaling – PL, SK, CZ	Adjusting and scaling –HU, RO, BG
Outreach to potential bond buyersOutreach to partners in Lithuania	olssuing 1st green CEESCO bond Outreach to Latvia and Estonia	○Issuing 2nd green bond○Outreach to Poland,Slovakia and Czechia	olssuing 3rd green bond oOutreach to Hungary, Romania and Bulgaria	olssuing 4th green bondsoResearch expansion markets

Team

BORANDA Bianca, Romanian (<u>LinkedIn</u>): 6+ yrs. in capital markets advisory at Chatham Financial in US & Singapore **FRASER Donald**, British (<u>LinkedIn</u>): 9+ yrs. in shipping and carbon markets across Asia Pacific **IVANESCU Iustin**, Romanian (<u>LinkedIn</u>): 7+ yrs. in debt & equity investments, project and public finance at EBRD **STANKEVICIUS Dom**, Lithuanian (<u>LinkedIn</u>): 5+ yrs. in Invest Lithuania (FDI) and startups, focused on fintech sector

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