

Business Models to support the energy transition Learnings from the NOVICE Project



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NOVICE: New Buildings Energy Renovation Business Models incorporating dual energy services



Setting the Scene



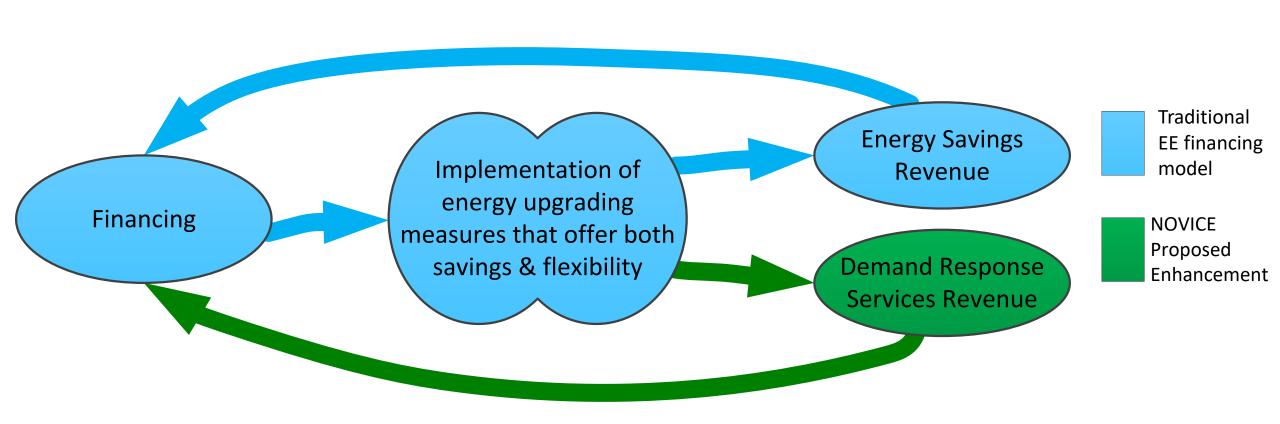
Innovative energy efficiency (EE) and demand response (DR) solutions already exist...

...but uptake and market penetration is low.

We need more compelling business models

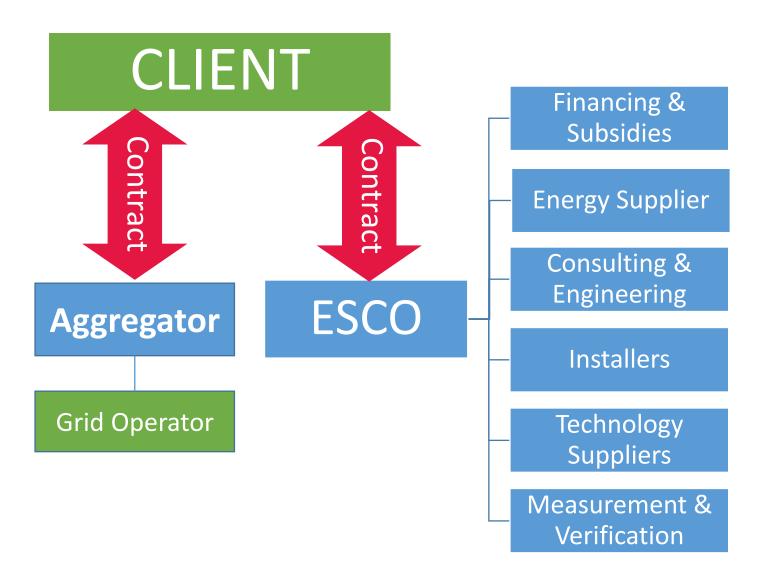


NOVICE in a Brief



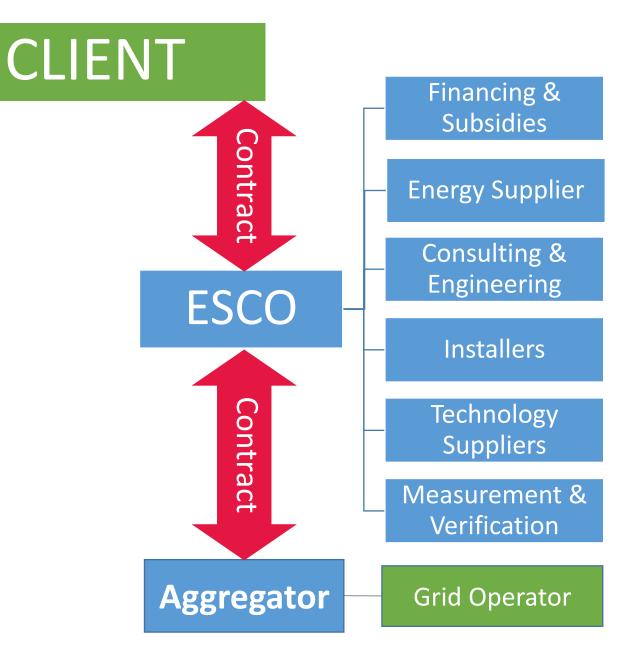
Traditional model

- ESCO handles all EE measures
- Demand Response Aggregator handles the flexibility potential
- Client must manage contracts with each party
- This can create conflicts e.g.
 - baseline discrepancies,
 - operational conflicts
 - contract breaches



NOVICE Approach

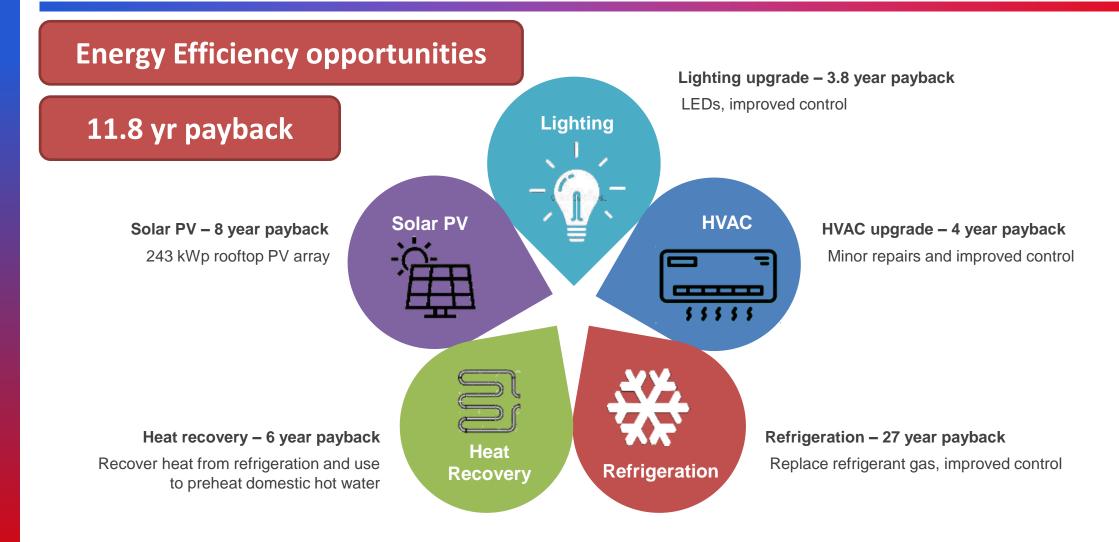
- The ESCO is the single point of contact with the client for all energy services.
- Contract covers EE and DR.
- A Memorandum of Understanding (MoU) governs the relationship between ESCO and Aggregator.
- Benefits
 - Shorter payback period
 - Consistent baselines
 - Operational consistency
 - Contractual certainty



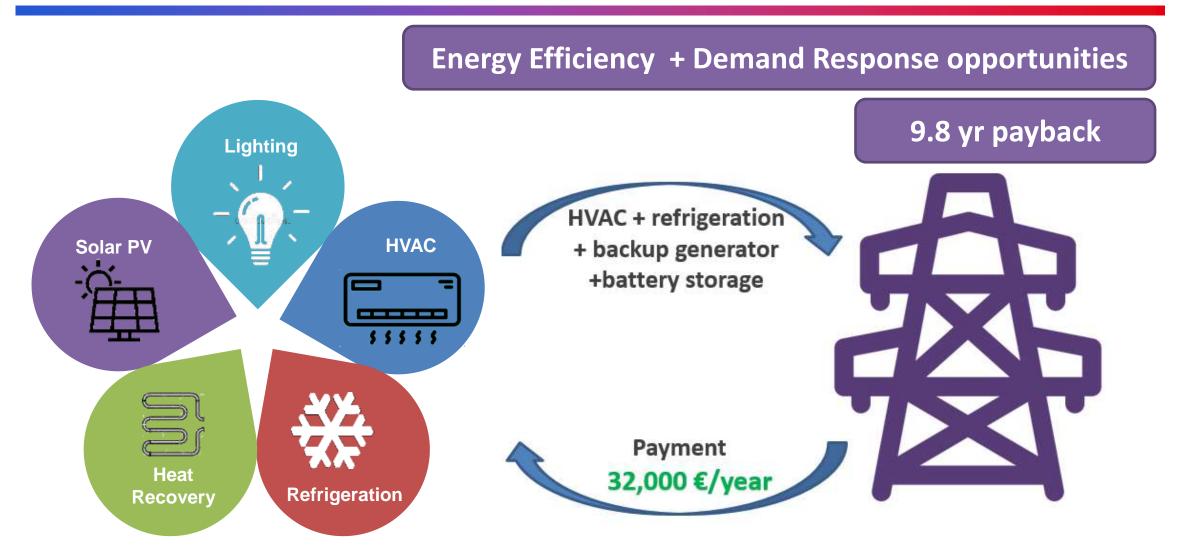


Case Study: Supermarket in Ireland



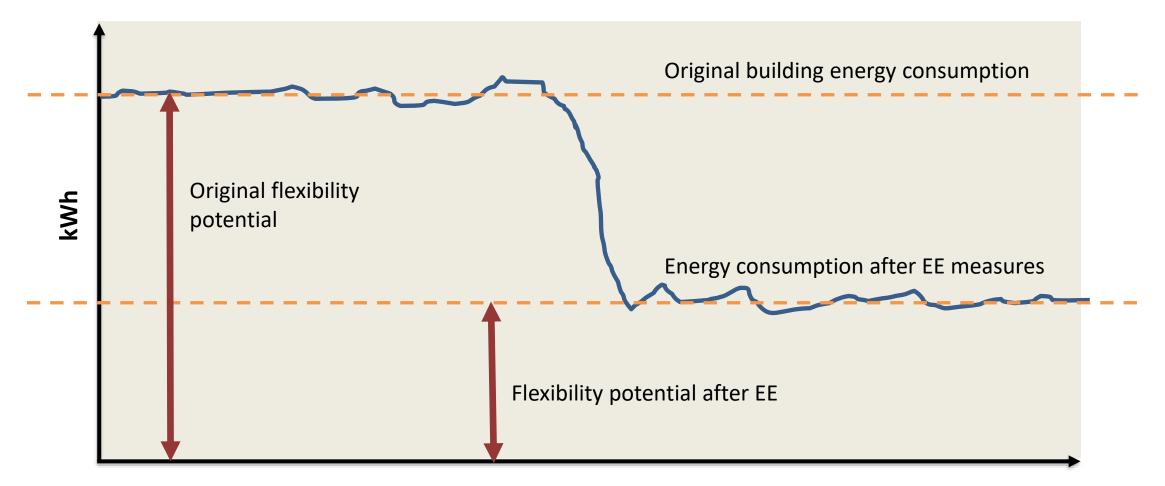


Case Study: Supermarket in Ireland



ESCOs and Aggregators: Common or Conflicting Interests?

ESCOs & Aggregators: Conflicting interests?





Benefits of the dual services approach include:

- Access to new, untapped markets
- Unique selling point in a crowded/growing market
- Added value for clients
- Shorter contract lengths (ESCO)
- Lower cost of sale (aggregator)
- Increased asset value and occupant comfort (Building owner)

Both aim to maximise revenues from building energy assets





- 1. Business models that accelerate uptake of flexibility services are needed NOVICE is one option.
- **2. Combining energy efficiency with flexibility** can improve the business case for whole building retrofit projects.
- 3. ESCOs and demand response aggregators should consider **working together**.



Thank you! Jo Southernwood International Energy Research Centre





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