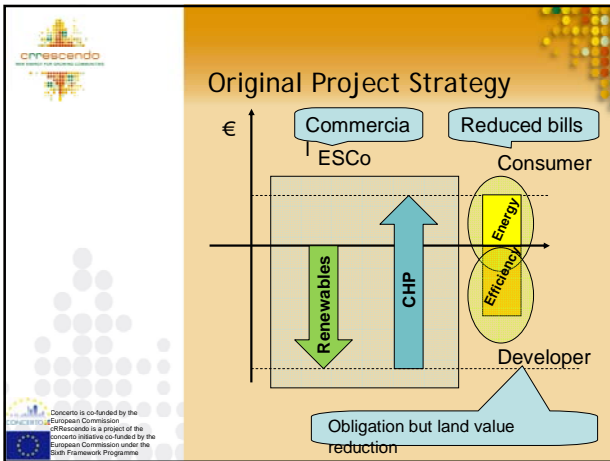


Introduction

1. Original project strategy
2. Effect of market forces, regulation and policy dependency on project
3. Commercial delivery and organisational structure
4. Local factors affecting plant utilisation and infrastructure considerations - socioeconomic and climatic
5. Setting of building targets and delivered balance between reduced energy consumption and sustainable energy supply measures

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Market forces, Regulation and Policy

Renewable energy / polygeneration *Rational Use of Energy*

CHP CBX3/C4.1/B3 mixed/commercial

PV

Ground source heat pumps Sustainable Residential Quarter

Biomass boiler

Biomass CHP

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Sustainable Residential Quarter

Policy ● Risk ● Commercial agreement ●
Energy prices ● Housing market ●

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Commercial delivery and organisational structure

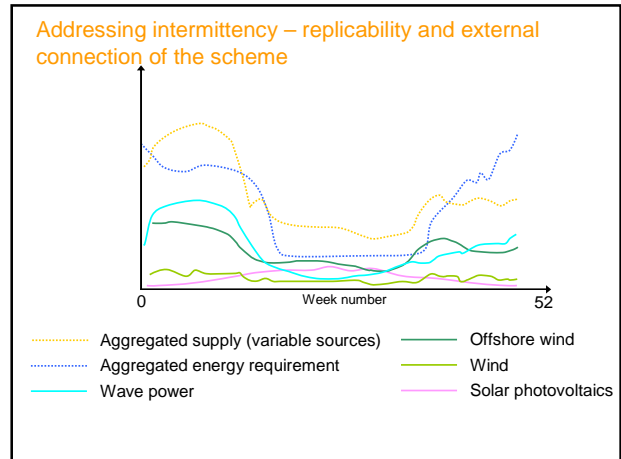

1. Project Development Agreement to include renewable energy
2. Engineers and lawyers need to work together in framing the project development agreement early on
3. Conflict of interest between ESCo wanting to sell energy and drive to reduce energy consumption (→ energy performance contracting model?/different solutions for different parts of the scheme?)
4. Consumer participation and choice?
5. For commercial delivery it is important that there is operational gain regardless of the capital funding. (Concerto is capital focused, but is there scope for operational support?)

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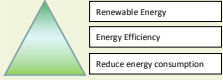
Local Factors

- Grid electricity mix and environmental case for CHP and absorption chilling (→ introduce flexibility)
- Relative requirements for heating and cooling
- Acceptance of biomass and district heating by consumers
- Methods of construction and training
- Long term case for PV and other renewables in UK

Building targets and energy efficiency / supply balance

- Improvements on building regulations
- Revised measures in line with revised building regulations
- Consideration of affordability for developer and market testing
- Who get the benefit of energy savings?
- Economic crossover point between energy efficiency and renewable energy
- Energy hierarchy




Collation for blueprint

- Setting terms of reference to deliver optimum environmental package within commercial boundaries
- Flexibility to adapt to changing market, support mechanisms, energy supply mix, technological advancements, regulation and social factors
- Energy hierarchy versus economic drivers
- Stakeholder integration and adaptation to new business models to ensure that there is not a conflict between energy supply and energy saving.