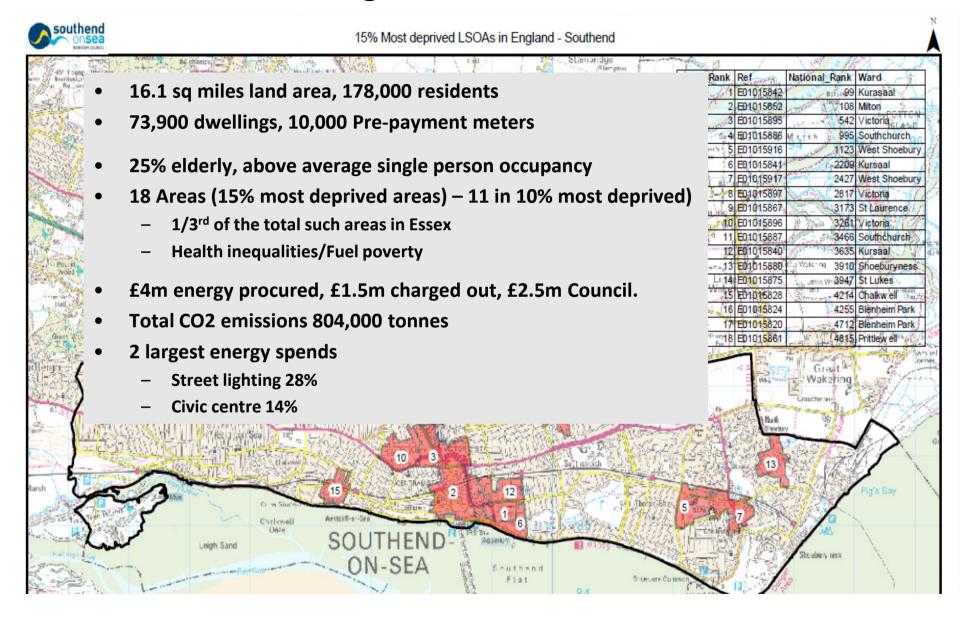


Southend Challenges





A public commitment to report annually on the progress of LCESS.

SOUTHEND WEATHER

- Hotter summers
 - Up to 8°C warmer on average
 - Typically 30°C. Hottest day around 35°C
- Drier summers
 - 50% less rain
- Heat waves more common and up to 10 days longer
- Warmer Winters
 - Temperatures up to 4°C warmer on average
 - Typically 6°C. Reduced likelihood of frost, snow & ice
- Wetter winters
 - 50% more rain
- Sea levels higher by up to 90cm
- More storms and extreme weather events
 - Typically, hotter drier summers, warmer wetter winters





Carbon Reduction

Policy

Low Carbon Economy

Sustainable Communities

Sustainable Travel

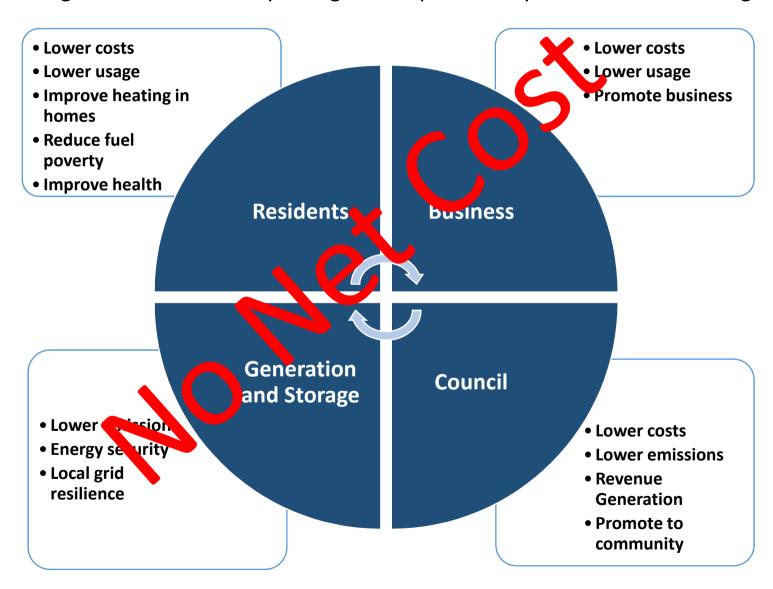
Climate Change Adaptation & Biodiversity

southend-on-sea



Energy Strategy Objectives

follows 25% gas and 15% electricity savings across previous 8 years in Council buildings





TACKLE FUEL POVERTY
ADDRESS RISING ENERGY PRICES
SAVE COSTS
MONEY INTO COMMUNITY

total savings £1.38m **£276**

MARKET SHARE 6.8%

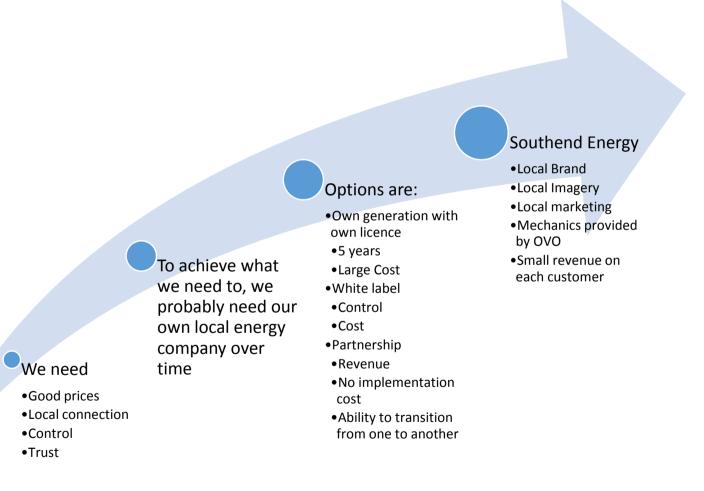
CUSTOMERS 5,002

A partnership between



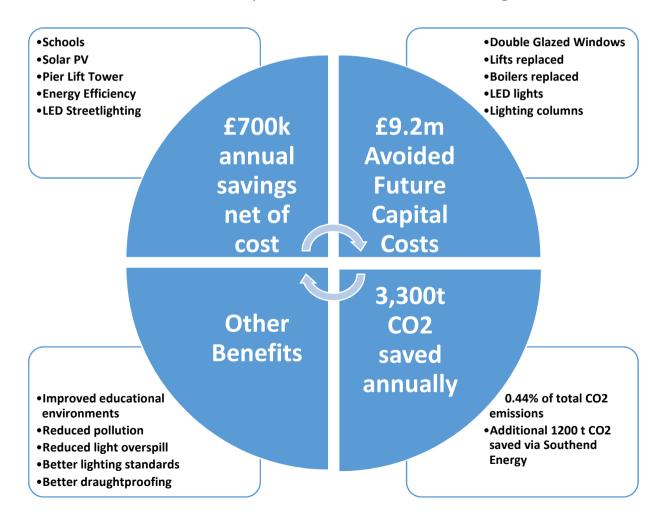


Why Partnership Approach?

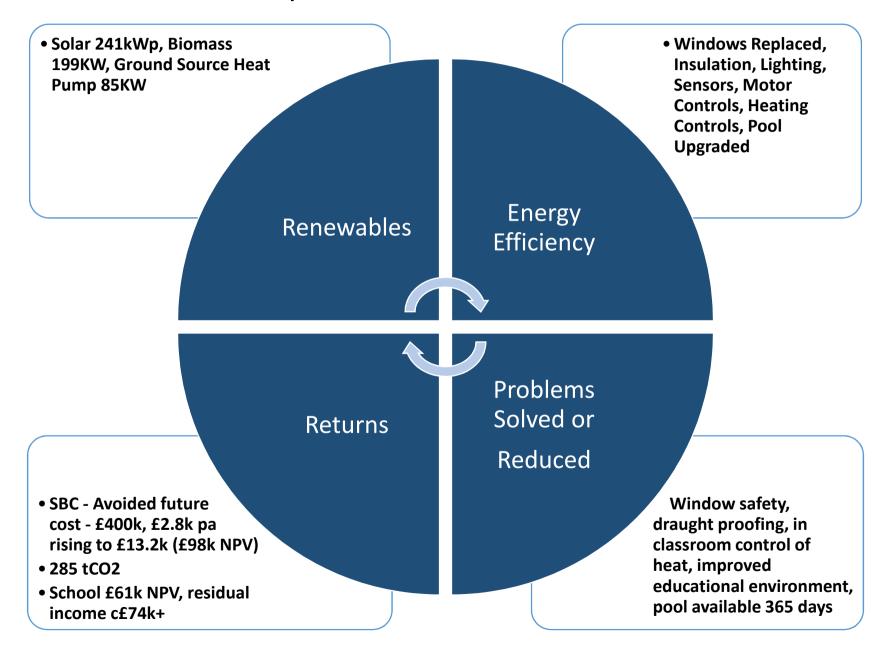


Current Projects - £19m projects

- Approach
 - Treat as 100% funded from borrowing
 - Annual returns 1-3% of capital invested net of funding cost



Worked Example – School £1.29m



LED Street Lighting Project

Originally conceived as a 5 year project

- 14,000 street lights
- 4-5,000 items street furniture

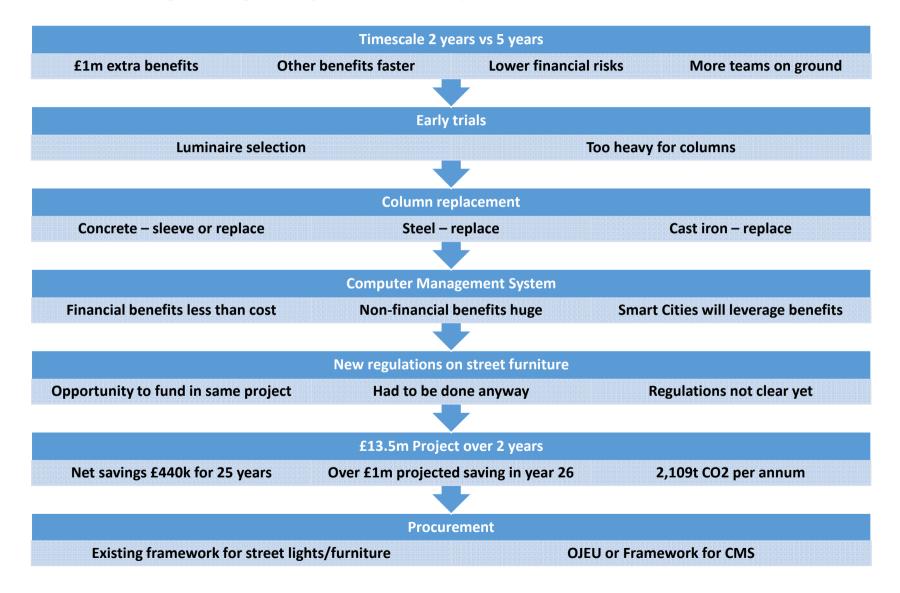
Financial benefits – 25.9m over 25 years

- £19.6m energy
- £6.3m maintenance

Other benefits

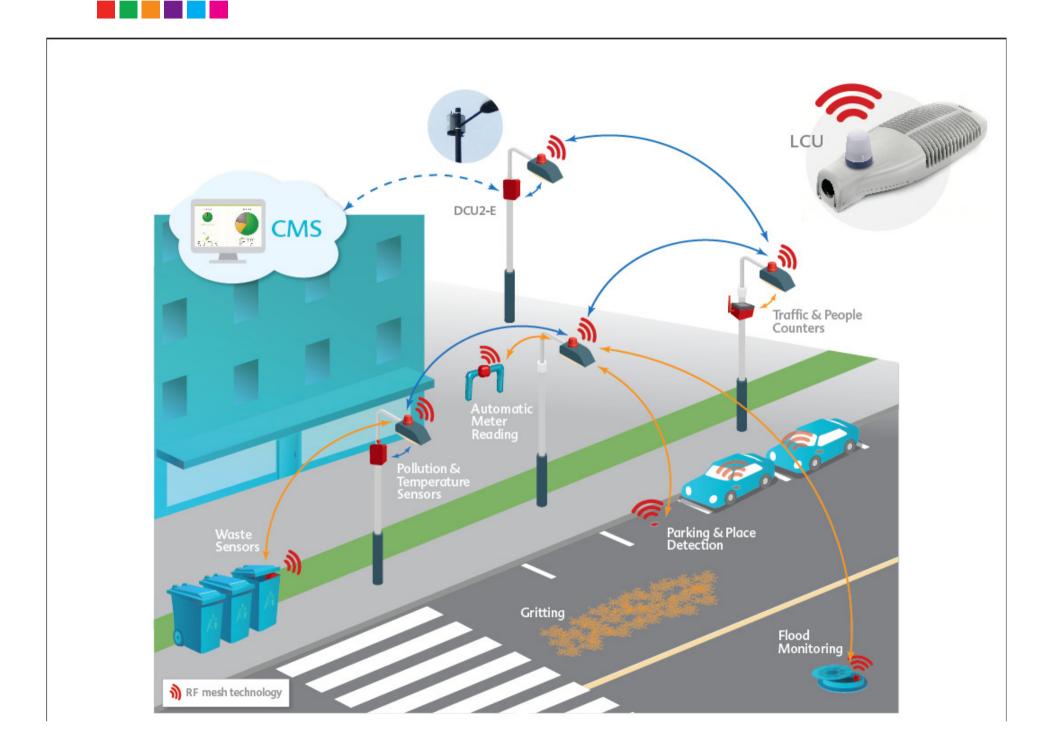
- Not part night solution
- £7m avoided capital
- Central control of light levels
- Remote monitoring of failures
- Light overspill
- Improved night time visibility
- Reduced light pollution

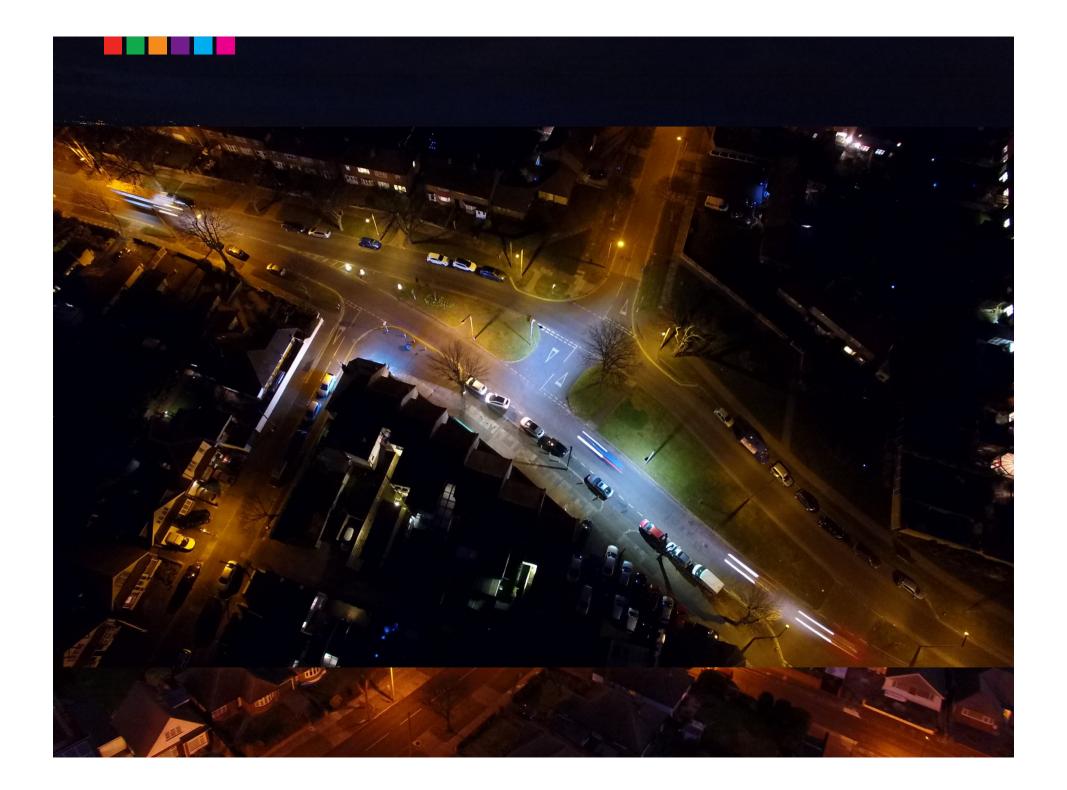
Street Lighting Project - components



Funding

Funding	Interest/ Fees	Capital Repayments	Admin	Risks
Challenge Fund	None	None	Application	Not 100% May not be selected
PWLB Maturity Loan	Interest fixed at drawdown No fees	At end (therefore flexible)	Little or none Usual source	Operational Savings Interest rate
PWLB Reducing Balance Loan	Interest fixed at drawdown No fees	Fixed	Little or none	Operational Savings Interest rate Cashflow negative in early years
GIB	Interest fixed at Financial Close Fees	Shaped	Contract DD Green Audit GIB Approval	Operational Savings
PFI	Benefit transfer in exchange for risk transfer so savings smaller (if any)		Contract	Loss of control
Reserves	Not large enough			
No project	No savings, no benefits Still has to replace columns over time			





A few tips

Keep it simple and logical

The important thing is starting

Know what you have as muc as you can

Know what you want to do as much as you can

Break it down into logical components

Keep some space in your programme

Don't be afraid to go fast

Don't be afraid to make reasonable assumptions

Share the assumptions and detail with whoever is financing the programme

Keep a tight control on your costs

