

# **Energy Services models**





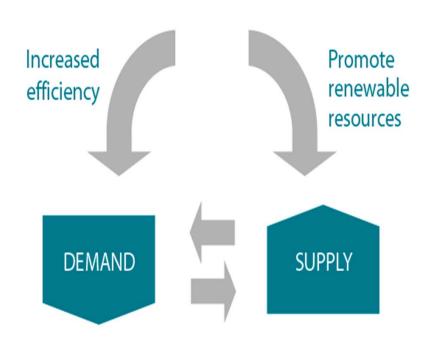
# Sustainable Energy Act 2002

### Mission...

...To play a leading role in transforming Ireland to a society based on sustainable energy structures, technologies and practices

### Key objectives

- Energy efficiency first
- Low carbon energy resources
- Innovation and Integration







### The challenge

- Public sector energy costs
- National targets
- Proven opportunities

### Strategy and progress

- Public sector energy partnership and networks
- Structured energy management
- Specialist advice, tools, training
- Smart investment retrofit case studies

### Constraints and response

- Access to finance, expertise, time
- The third party offering shared savings model
- Sharing, learning, replicating practical experience

### Establishing the solution

- Tackling the barriers
- Creating a healthy competitive market







#### National Energy Efficiency Action Plan 2009-2020 and SI 542 of 2009

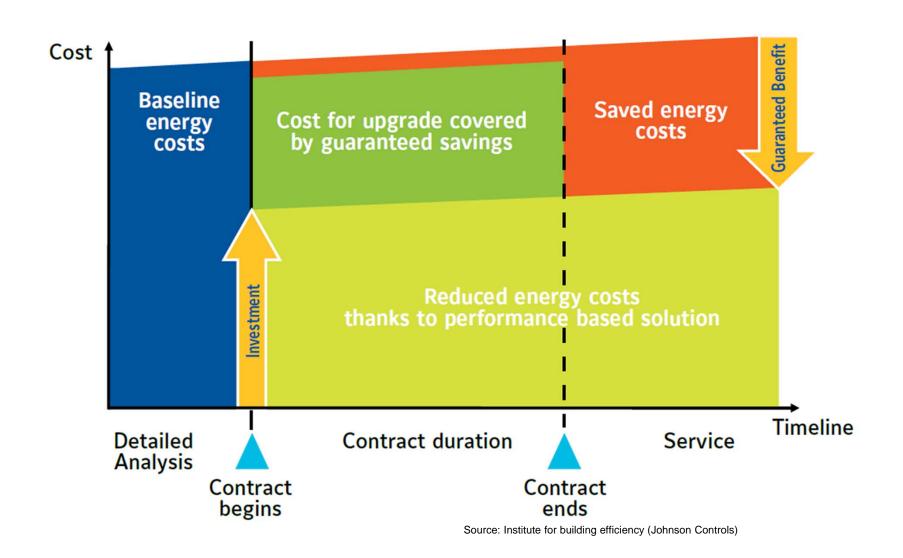
### Responding to EU Energy Services Directive

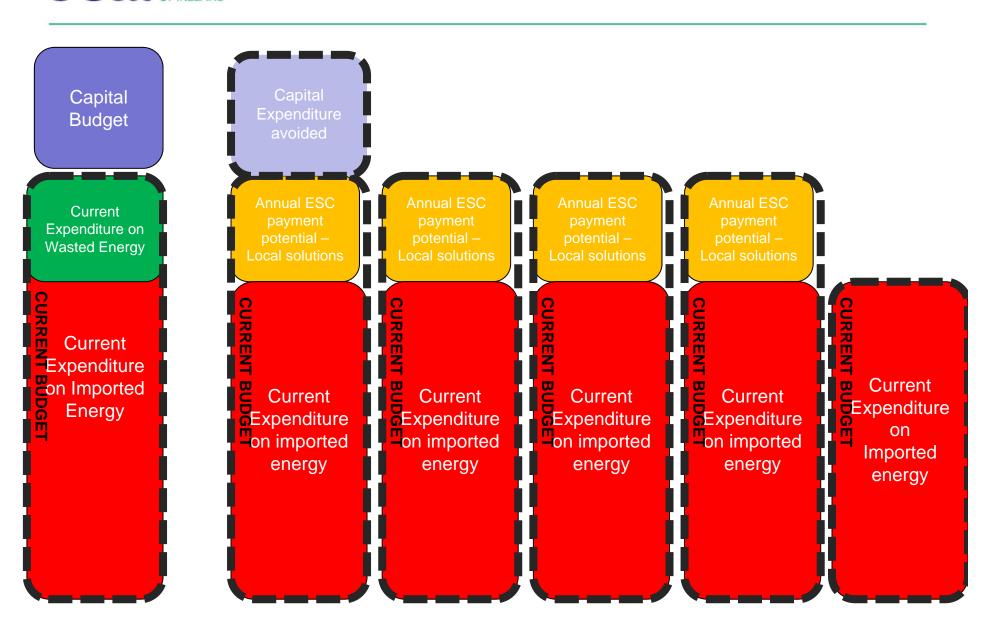
- Overall energy efficiency improvement across all sectors: 20%
- Overall energy efficiency improvement in public sector: 33%
- This equates to:
  - a saving of €165m/yr at current prices
  - €1.2 billion net lifetime savings
- Public sector leadership and exemplar role
- Clear signal to support the development of energy services (ESCO) market

Programme for Government 2011 calls for introduction of third party financing model for energy efficiency investment in public buildings



### The old model





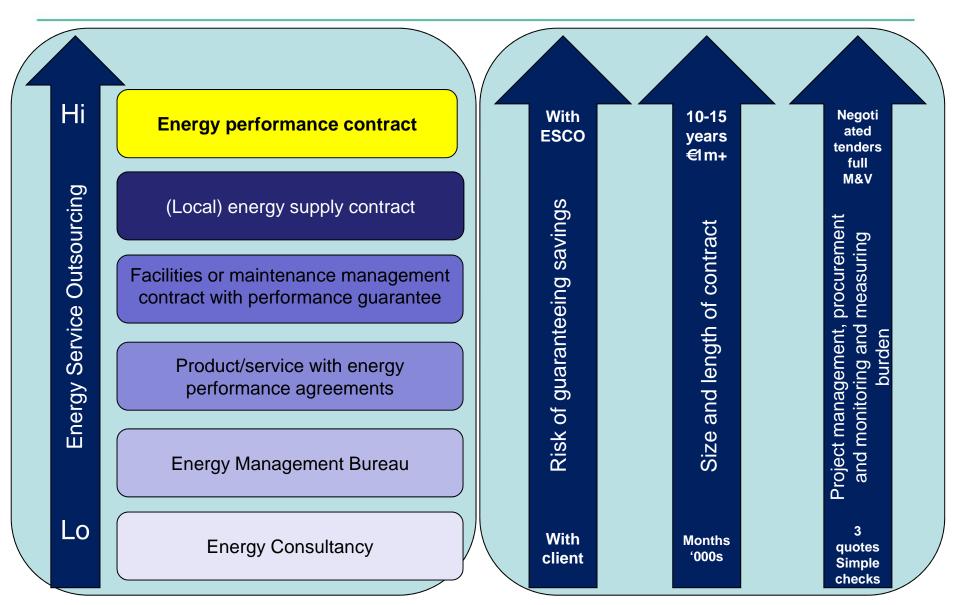


# **Energy Contracting**

- Energy Supply contract normal for many years
  - Utility Contracts
  - Guarantee of correct billing
- Energy contracting = facilities management contract
  - No performance guarantee
  - Standard O&M contracts
- Energy Performance Contract PPP contracts
  - Investment contract
  - Supply contract
  - O&M contract

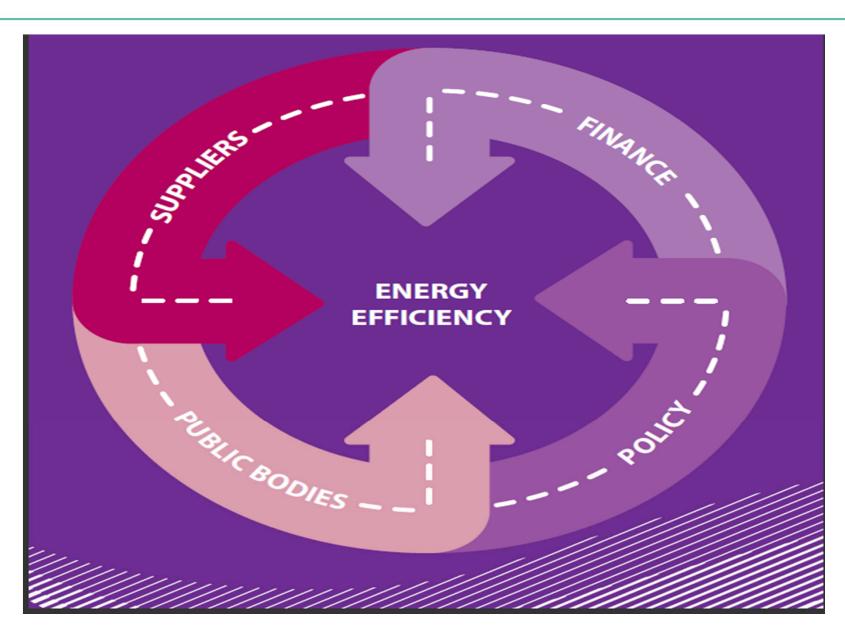


# The Energy Service Ladder





# The Stakeholder Groups







### The GAPs to address

Finance

Suppliers

Public Bodies

Policy

They have – Loan funds

They need – Someone with an excellent credit rating the technical expertise to guarantee the energy wastage and loan payment potential.

They need to guarantee the payment potential of the client and take on the loan from the bank.

They need to partner with the Banks.

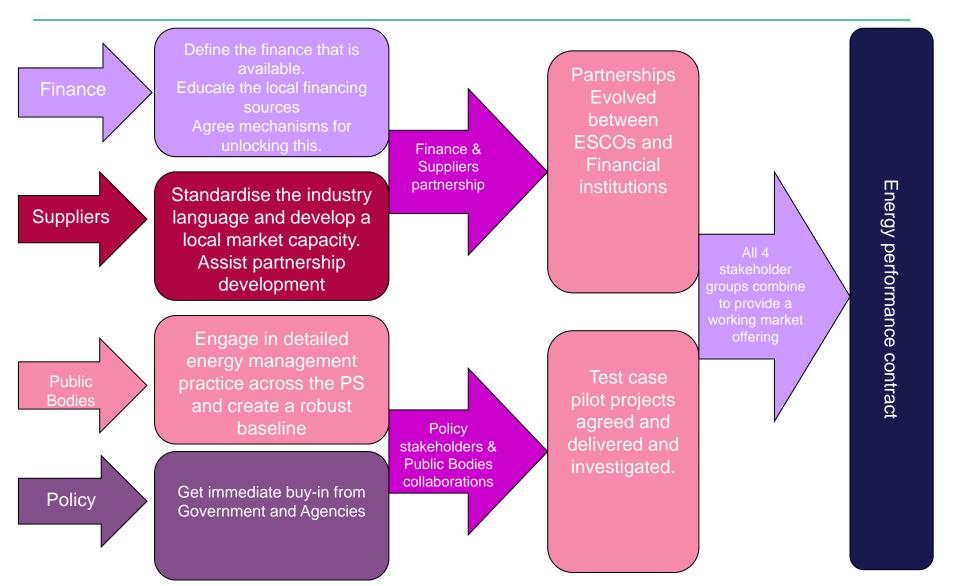
They need to provide auditable / verifiable energy data a skill set only available in some large ESCO's

They have: A current budget with significant energy wastage and the ability to pay bills regularly.
 They need is the capacity to identify the wastage and the ability to procure and manage an EPC contract
 They need comfort that ESCOS can do the job and will work with local businesses to deliver the services.

We have: NEEAP and EU ESD
We need: Ring fencing of current energy budgets
Permission to use the EPC contracts and to sign "loan
guarantees" for long term service contracts



# **ESCO** Roadmap





# Priming the pump

|                              | SEEEP 2009 | EEF 2010 | BEW 2011 |
|------------------------------|------------|----------|----------|
| Grant support €M             | 4.9        | 8.3      | (11.5)   |
| Number of Projects Approved  | 91         | 66       | 99       |
| Energy Savings GWh           | 52         | 228      | 304      |
| Tonnes CO <sub>2</sub> saved | 10,753     | 47,140   | 63,800   |
| €M Saved                     | 2.6        | 8.7      | 12.1     |
| Payback Years (average)      | 4.6        | 2.5      | 4.6      |
| Government Contribution      | 41%        | 37%      | 27%      |



# Summary

- Energy contracting is in place in basic forms for many years
- Access to finance is now the key driver
- PPP seems to be the best fit for the next model of EPC
- We need to build capacity in all sectors to deal with this.



# Thank you