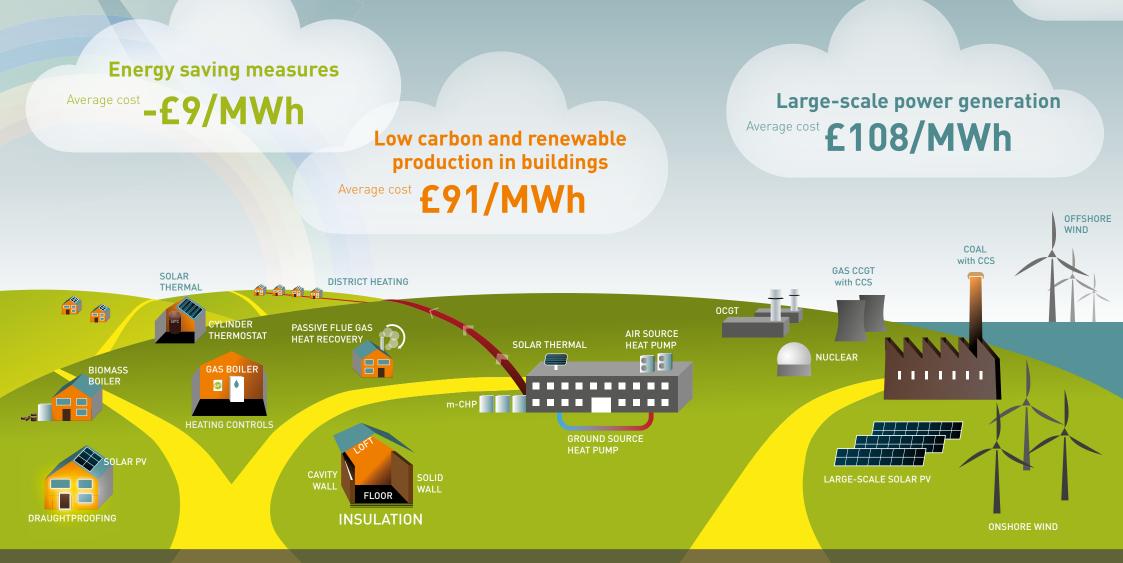
CLEAN ENERGY MEASURES IN BUILDINGS ARE CHEAPER Low carbon or renewable production from energy efficient buildings is a cheaper way to meet our energy needs



Join the SEA in promoting an affordable, secure, low carbon energy future for the UK Go to www.sustainableenergyassociation.com for more information

Why should we focus our efforts on energy measures in buildings?

Depicted overleaf is a summarised analysis of the average cost per MWh of a range of measures, each of which plays a role in meeting our energy needs. These can be captured in three broad groups; energy saving measures, low carbon and renewable production in buildings and large-scale power generation.

The analysis demonstrates that "demand-side" measures such as energy saving and low carbon or renewable production in buildings are a cheaper way of meeting our energy needs.

Currently, we are not investing enough in these demandside measures. Policy makers generally look first to the supply-side – principally large scale power generation – to meet our energy needs. There is a huge opportunity to secure a clean, affordable energy future at much lower cost for the country overall through a step change in investment on the demand-side. Doing so will mean warmer, more comfortable, more affordable homes and buildings and cleaner, more secure energy for the people and businesses of Britain.

The Sustainable Energy Association will be campaigning on behalf of its members for joined up policy support that integrates energy efficiency and low carbon or renewable production in our homes and businesses.

SO WHAT DOES THIS MEAN FOR ME?

INDUSTRY

Those with a business interest in energy saving, low carbon or renewable production in buildings should get in touch with the SEA to learn how our work to shape the future of energy policy can help your business succeed. Please look at our membership options at www.sustainableenergyassociation.com or call 0121 709 7740 to join or find out more.

POLITICIANS

Voters are increasingly concerned about their energy bills. As an MP or Councillor, your support of our call for a greater focus of public policy on demand-side measures is important. This will improve the quality of life of your constituents and particularly the affordability of energy.

CONSUMERS

For consumers you can reduce your bills, make your home warmer and more comfortable and get more out of your taxes. Our members have a full range of measures which will permanently reduce your energy bills; a selection of these measures can be available at very low cost, and for some consumers free of charge through government incentive schemes.



What is the Sustainable Energy Association?

The Sustainable Energy Association is a member based industry body. It develops and promotes innovative policy solutions that link building-level technologies with the wider energy system to achieve a low carbon, secure and affordable energy future for the UK. This brings benefits to consumers and commercial growth for businesses in the sector.

Membership comprises a wide range of organisations that are fully engaged in developing policy positions. Member-led working groups and a governing body of members ensure that we discuss and authorise policy positions that have real commercial impacts.

GET IN TOUCH

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LARGE-SCALE

POWER GENERATION

Email: info@sustainableenergyassociation.com Web: www.sustainableenergyassociation.com

AVERAGE

£108/MWh

HOW HAVE THE AVERAGE FIGURES USED BEEN WORKED OUT?

Levelised costs represent discounted lifetime capital and operating costs of saving and producing energy from different measures projected in 2019 and expressed in £ per MWh.

These figures have been averaged for each of the three categories – energy saving, domestic and non-domestic low carbon and renewable energy production and largescale power generation to evaluate cost-effectiveness of options.

ENERGY	SAVING	MEASURES

	ENERGY SATING MEASONES	-
	Measure	£/MWŀ
Z	Cavity Wall - Hard to Treat	-£10
≥	Cylinder Thermostat	-£49
2	Double Glazing (old single to A)	£59
X	Draughtproofing	-£48
BREAKDOWN	Cavity Wall Insulation	-£46
B	Flat roof insulation	-£32
¥	Floor Insulation	-£33
ECHNOLOGY	Flue Gas Heat Recovery (condensing combi boiler)	£13
Б	Heating Controls	£5
Ţ	Loft Insulation	-£17
<u></u>	Solid Wall (external)	£49
F	Solid Wall (internal)	-£1

AVERAGE	
-£9/MWh	

costs

Levelised

LOW CARBON AND RENEWABLE

		I OWER OERERATION		
£/mWh		Technology	£/MWh	
£98	ts	ASC with CCS	£92	v
£89	cos	Coal with CCS	£109	Costs
£81	sed	Gas CCGT with CCS	£95	sed
£73	Large Scale Solar PV	£123	evelised	
£75	Le	5		Ū.
£22				
£98		UCGI	£155	
£115		Offshore Wind Round 2	£107	
£101		Offshore Wind Round 3	£114	
£26		Onshore Wind	£99	
£183				
£124				
£104				
	E/mWh £98 £89 £81 £73 £75 £22 £98 £115 £101 £26 £183 £124	£98 \$\$\$0000000000000000000000000000000000	£/mWhTechnology£98500£89Coal with CCS£81Gas CCGT with CCS£73Gas CCGT with CCS£73Large Scale Solar PV£75Nuclear£22OCGT£98Offshore Wind Round 2£115Offshore Wind Round 3£26Onshore Wind£183£124	£/mWhTechnology£/MWh£9855ASC with CCS£92£8969Coal with CCS£109£816as CCGT with CCS£95£736as CCGT with CCS£95£75Large Scale Solar PV£123£220CGT£155£980CGT£155£115Offshore Wind Round 2£107£101Offshore Wind Round 3£114£26Onshore Wind£99£183£124

AVERAGE

£91/MWh