

## UK

For the UK the following financial instruments and funding programmes were reported:

UK	Instrument	Source	Sector	Technology	Impact
ECA Energy	Tax Allowance	Public, HM Revenue & Customs	All	Efficient Use of Energy (Technology List)	
ECA Water	Tax Allowance	Public, HM Revenue & Customs	All	Efficient Water Use	
Energy Efficiency Financing	Different (not specified)	Private (Siemens)	All	Efficiency and RES (no criteria)	
Feed In Tariff	Feed In Tariff	Energy Suppliers	All companies	solar electricity (PV) anaerobic digesters micro combined heat and power (CHP) all below 50 kW	
Green Deal	On-Bill Financing (Loan)	Installer, equipment provider, bill payers	Households Businesses	Energy Efficiency Technology and RES (mainly for heat)	
Renewable Heat Incentive	Cash Back	Ofgem	Organisations	RES for heating buildings	
Innovation Voucher	Grant	Technology Strategy Board, Newcastle University	SMEs	New Knowledge (energy audits, recommendations)	
Regional Growth Fund	Grant/Loans	Banks	Public	Mostly any assets, sometimes companies in Food Industry, clean technology sector	

**Table 0-1** financial instruments and funding programmes in the UK

Unfortunately for the UK there are no numbers. All these schemes do not provide holistic numbers and statistics.

## Enhanced Capital Allowance (ECA) - Energy Scheme

The Enhanced Capital Allowance (ECA) energy scheme provides tax allowances for energy saving products in the UK for businesses of any sector and any type of enterprises regardless of the size. It offers a 100 per cent First-Year Allowance (FYA) for investments in certain energy saving plant and machinery. For equipment that qualifies as such, one can write off, for example, 100 per cent of the cost against that year's taxable profits.

### The Technologies/Services covered are

- Air-to-air energy recovery
- Automatic monitoring and targeting equipment boiler equipment
- Combined heat and power (CHP)
- Compressed air equipment - including flow controllers and master controllers
- Heat pumps for space heating - including air source, water source and ground source
- Heating, ventilation and air conditioning (HVAC) equipment
- Lighting
- Motors and drives
- Pipework insulation
- Refrigeration
- Solar thermal systems
- Uninterruptible power supplies
- Radiant and warm air heaters
- High speed hand air dryers

For certain technologies like CHP, component based AMT, lighting, and pipework insulation, it is recommended that a confirmation must first be obtained from equipment supplier/installer that the equipment meets the ECA Scheme eligibility criteria.

Claims should be based on the invoice value of the eligible product. Claims may include additional direct costs such as the transportation and installation of equipment, and professional fees, although this should be discussed with the tax advisor or HMRC in advance.

If the invoice value of the eligible equipment cannot be identified (e.g. if the eligible equipment is a component of a larger non eligible system), then the tax relief should instead be based on the claim value.

**Contact**

HM Revenue & Customs (Administering Organization)  
Nick Williams  
Tel. no.: 020 7147 2541  
Email: [nicholas.williams@hmrc.gsi.gov.uk](mailto:nicholas.williams@hmrc.gsi.gov.uk)

**Webpages**

<http://www.hmrc.gov.uk/capital-allowances/fya/energy.htm>

**Energytechnology-Criteria List**

[https://etl.decc.gov.uk/etl/site/criteria/content/0/text\\_files/file1/document/5701energytechnologycriterialist2012.pdf](https://etl.decc.gov.uk/etl/site/criteria/content/0/text_files/file1/document/5701energytechnologycriterialist2012.pdf)

**The last evaluation report was conducted in 2007**

<http://www.hmrc.gov.uk/research/report-54.pdf>

## Enhanced Capital Allowance (ECA) - Water Scheme

In the UK the HM Revenue & Customs offers up to 100 per cent first-year allowance for investments in certain water efficient plant and machinery. It lets businesses write off 100 per cent of the cost of qualifying plant and machinery against taxable profits in the year of purchase. Any sector and any type of enterprises regardless of the size can use this instrument.

Equipment that meets the technology list as described above.

**Technologies covered:**

- Cleaning-in-place equipment
- Efficient showers
- Efficient taps
- Efficient toilets
- Efficient washing machines
- Flow controllers
- Leakage detection equipment
- Meters and monitoring equipment and software
- Rainwater harvesting equipment
- Small-scale slurry and sludge dewatering equipment
- Vehicle-wash water reclaim units
- Water efficient industrial cleaning
- Water management equipment for mechanical
- Waste water recovery and reuse
- Efficient membrane filtration equipment
- Waste water recovery and reuse

#### Programme Webpage

<http://www.hmrc.gov.uk/capital-allowances/fya/water.htm#2>

The last evaluation report was conducted in 2007

<http://www.hmrc.gov.uk/research/report-54.pdf>

#### Helpline

Tel: 0844 875 5885

Email: [wtl@aeat.co.uk](mailto:wtl@aeat.co.uk)

## Energy Efficiency Financing

A joint partnership between the Carbon Trust and Siemens provides UK businesses with green equipment finance worth up to £550 Mio.. Energy Efficiency Financing helps provide tangible financing options that are both agreeable to technology suppliers and technology end-user. Any types and any sizes of businesses are applicable, all types of organisations, who have been trading for more than 36 months and are seeking to reduce their own energy use.

Many options (of financing) are available but first, the applicant has to be subjected to 'customer energy saving assessments' conducted by Carbon Trust Implementation Services and which will then match to Energy Efficiency Financing options available.

The technologies are dependent on the 'customer energy saving assessments' conducted by Carbon Trust Implementation Services. May cover energy efficient technologies and renewables but the specific solutions which can be suggested by GREENFOODS may not be taken into consideration.

*"Siemens Financial Services Ltd. in UK (SFS UK) will provide the financial backing and manage the provision of funding and the Carbon Trust will use its expertise in carbon saving from energy efficient technologies to assess the carbon, energy and cost savings of any application".*

Source: [http://finance.siemens.com/financialservices/global/en/press/press\\_releases/page\\_s/the-carbon-trust-and-siemens-launch-new-green-finance-deal-worth-550-Mio.-to-green-businesses-in-the-uk.aspx](http://finance.siemens.com/financialservices/global/en/press/press_releases/page_s/the-carbon-trust-and-siemens-launch-new-green-finance-deal-worth-550-Mio.-to-green-businesses-in-the-uk.aspx) (Jan.7, 2014)

Non ongoing applications.

#### Contact

Siemens Financial Services

Tel.: +44 1753 434476

[energyfinance.gb@siemens.com](mailto:energyfinance.gb@siemens.com)

#### Webpage

[http://finance.siemens.com/financialservices/uk/products\\_solutions/equipment-finance-leasing/energy-efficiency-financing/pages/index.aspx?tabcardname=Suppliers](http://finance.siemens.com/financialservices/uk/products_solutions/equipment-finance-leasing/energy-efficiency-financing/pages/index.aspx?tabcardname=Suppliers)

<http://www.carbontrust.com/client-services/technology/implementation>

## Feed In Tariff

From 1 April 2010 and ongoing any business that invest in renewable electricity systems get cashback from energy companies from using one's own electricity and for exporting excess capacity in the form of feed in tariffs (FIT). Energy supplier will make the FITs payments to any businesses. The large energy suppliers are required by law to provide them; smaller suppliers are not, but many have opted to offer them anyway.

Technology Covered (with a declared net capacity of 50kW or less)

- Solar electricity (PV)
- Anaerobic digesters
- Micro combined heat and power (CHP)

The date the FIT supplier receives a valid application for FITs. This will be after the date on which the renewable electricity system is installed.

### Contact

Ofgem

Email: [renewable@ofgem.gov.uk](mailto:renewable@ofgem.gov.uk)

Tel. No.: 020 7901 7310

### Webpage

<https://www.gov.uk/feed-in-tariffs>

<http://www.energysavingtrust.org.uk/Generating-energy/Getting-money-back/Feed-In-Tariffs-scheme-FITs>

Tariff rates are located here:

<http://www.energysavingtrust.org.uk/Generating-energy/Getting-money-back/Feed-In-Tariffs-scheme-FITs>

## Green Deal

From 28th of January 2013 and on-going the Green Deal borrows money for investments in certain technologies to household and to companies, repayment is made through electricity bills.

Green Deal is a scheme offered by the government where cost of the energy saving measures is footed by equipment installer and/or equipment provider together with the bill payer (property owner or tenant). The scheme cannot proceed without the final approval of the property owner.

The Green Deal's Golden Rule states that the cost of participating in the Green Deal must not be greater than the energy savings. With this in mind, the repayments will be added to the property's energy bill over a period of time which offers maximum savings. It has been said that the longest repayment period will be 25 years. One only pays the money back through electricity bill when one stays in the property. If one moves, the responsibility of repayment transfers to the next occupant (can be tenant).

Green Deal will allocate around £6,500 – £10,000 per property. The exact amount has yet to be announced and it is possible that larger companies will have more flexibility with how much money they can borrow.

In Green Deal there are 5 players.

- The improver: the party who wants to have energy efficiency improvement done on their property.
- The assessor: the one who identifies the potential energy efficiency improvements that might be made to a property, produce an impartial Green Deal Advice Report
- The advisor: A Green Deal Assessor may employ or subcontract suitably qualified and competent individuals to carry out parts of the Green Deal Assessment on their behalf. Such individuals are referred to as Green Deal Advisors
- The provider: The one who will provide the technology/equipment necessary for energy efficiency implementation, but will not be involved in the production of a Green Deal Advice Report so as not to influence the outcome of the Green Deal Advice Report
- The installer: the one that installs the technology/equipment that is supplied by the provider

Technologies Covered:

- Solar photovoltaics
- Ground source heat pumps
- Air source heat pumps
- Micro CHP
- Water source heat pumps
- Condensing boilers
- Solar thermal
- Flue gas heat recovery
- Insulation

**Contact**

Administering Organisation:

Varies with locality. Specific organisation in different localities can be found here:

<http://gdorb.decc.gov.uk/consumersearch>

**Webpage**

<http://www.greendealinitiative.co.uk/green-deal-products-2/>

<https://www.gov.uk/green-deal-energy-saving-measures/repayments>

## Renewable Heat Incentive (RHI)

Launched in November 2011 the Renewable Heat Incentive is a scheme for the non-domestic sector that provides payments to industry, businesses and public sector organisations for the generation and use of renewable energy to heat their buildings (thermal energy end users). It provides cashback for maximum duration of up to 20 years.

The UK government pays the renewable heat user based on the amount of kWh of heat the renewable heat user has consumed: So for example if the monetary incentive is 8.5p/kWh and the heat utilisation is 1,000kWh, then the total cashback received from the government will be £85. Once the installation is accredited, the company must send a report to Ofgem every year to confirm it is still eligible.

Technologies covered include:

- Biomass
- Biogas
- Solar thermal collectors
- Heat pumps (ground source and water source)
- Geothermal

Criteria are:

- The Equipment must be installed in England, Scotland or Wales on or after 15 July 2009.
- can't use a public grant to buy or install the equipment
- the equipment and installer must have Microgeneration Certification Scheme (MCS) or equivalent certification
- equipment must use liquid or steam to deliver the heat

### Contact

#### Administering Organisation:

Ofgem  
Email: [rhi.enquiry@ofgem.gov.uk](mailto:rhi.enquiry@ofgem.gov.uk)  
Tel. No.: 0845 200 2122

#### Webpages

Overview  
<https://www.gov.uk/renewableheatincentive/overview>

Tariffs are located here:  
<http://www.rhinentive.co.uk/eligible/levels/>

## Innovation vouchers

Innovation vouchers are TSB (Technology Strategy Board) grants helping business companies to work with an external knowledge expert for the first time by paying towards the cost of their services. It must address a real challenge, not just a small improvement or to fund general business needs such as training or equipment.

Applicable is any SMEs that has yet to form working partnership with research organisations. Cannot engage to a supplier who has already done business with or been employed by in the past, but to build new relationships and to access new knowledge.

The programme is constantly reviewed and updated because priority themes change all the time. A maximum amount of no more than £5000 is granted.

Covered: Knowledge based solutions:

- Energy audits
- Recommendation of renewable energy technologies and heat recovery options

### Contact

Technology Strategy Board Innovation Vouchers  
Tel: 0844 875 5885, Email: 0300 321 4357

### Webpages

Programme-webpage  
<https://vouchers.innovateuk.org/>

Project information available but does not indicate results  
<https://www.innovateuk.org/projects;jsessionid=907D90D1EA870E1638E654639EAAAD57.2>

## Regional Growth Fund (RGF)

RGF programmes are schemes run by national or local organisations which have been awarded RGF cash to offer grants and/or loans to businesses.

A list of organisations on regional level is available.

### Webpages on national level

<https://www.gov.uk/regional-growth-fund-a-guide-for-small-and-medium-enterprises-smes>

Monitoring Report

[https://www.gov.uk/government/uploads/system/uploads/attachment\\_data/file/212280/13-p189-regional-growth-fund-annual-monitoring-report-2013.pdf](https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/212280/13-p189-regional-growth-fund-annual-monitoring-report-2013.pdf)

Case Studies

[https://www.gov.uk/government/uploads/system/uploads/attachment\\_data/file/219099/RGF-case-studies-1-8.pdf](https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/219099/RGF-case-studies-1-8.pdf)

- **Regional Growth Fund - Assisted Asset Purchase Scheme**

HSBC (one of the largest banking and financial services institutions in the world) is participating in the Government's Regional Growth Fund (RGF), a £2.4billion fund which will operate across England from 2011 to 2015. As a result, HSBC will receive £25Mio. from the fund to support businesses that have a turnover of less than Euro50Mio. (SMEs); and



are recruiting new employees or are safeguarding existing jobs; and are purchasing new fixed assets such as machinery and vehicles via loans.

- Must be an existing HSBC customer; and
- Creating additional employment, or will retain jobs that could have otherwise been lost within 12 months
- Wish to purchase an asset but lack a sufficient deposit

<p><b>Contact</b></p> <p>HSBC Tel. No.: 0845 607 6007</p> <p><b>Webpage</b></p> <p><a href="http://www.business.hsbc.co.uk/1/2/commercial-banking/loans-and-finance/regional-growth-fund-assisted-asset-purchase-scheme">http://www.business.hsbc.co.uk/1/2/commercial-banking/loans-and-finance/regional-growth-fund-assisted-asset-purchase-scheme</a></p>
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- **Regional Growth Fund: Capital for Enterprise Limited (CfEL)**

The £100m Angel CoFund, launched in November 2011, makes investments alongside business angels to small and medium sized businesses (SMEs) from across the UK. Individual businesses should first secure the interest of the business angel syndicate or network. Investment from Angel CoFund is subjected to an upper limit of 49% of an investment round and 30% of the equity in a business.

Technologies are not specified.

The disadvantage of this instrument is, that having first to secure an angel investor who does not have an investment in the existing business, prior to approaching Angel CoFund

<p><b>Contact</b></p> <p>Angel CoFund Email: <a href="mailto:info@angelcofund.co.uk">info@angelcofund.co.uk</a> Tel: 0114 206 2131</p> <p><b>Webpage</b></p> <p><a href="http://www.angelcofund.co.uk">http://www.angelcofund.co.uk</a></p> <p>Evaluation available Yes <a href="http://www.angelcofund.co.uk/news-and-press-releases.htm">http://www.angelcofund.co.uk/news-and-press-releases.htm</a></p>
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- **Regional Growth Fund (RGF): D2N2 Local Enterprise Partnership**

'Unlocking Investment for Growth' established 28th October 2010 a grant fund, aimed primarily but not exclusively at small and medium sized enterprises (SMEs) within D2N2's areas (Derby, Derbyshire, Nottingham and Nottinghamshire) of economic focus who require co-investment of capital funding for projects that will rapidly create jobs and stimulate economic growth but who are unable to directly access the main Regional Growth Fund due to the minimum threshold of £1Mio. for bids. Businesses, subject to State Aid rules, will be able to apply for up to 25% of the cost of new capital investment. Grants of between £50,000 and £5,000,000 will be available.

Businesses who are located within the Derby, Derbyshire, Nottingham and Nottinghamshire LEP (Local Enterprise Partnership) area and whose activities are in one of the LEP's six priority sectors will be able to apply including Food and Drinks, Manufacturing. They have to demonstrate value for money and the creation of long term sustainable jobs.

The target of the programme for SMEs is to:

- Invest and strengthen their business
- Create or protect jobs
- Build on creativity

The Technology is undefined

Evaluation possibly available

#### Contact

D2N2 Local Enterprise Partnership  
Richard Gill  
Email: UI4G@embltd.co.uk; [Richard.gill@embltd.co.uk](mailto:Richard.gill@embltd.co.uk)

#### Webpage

<https://www.gov.uk/regional-growth-fund-a-guide-for-small-and-medium-enterprises-smes>

<http://www.D2N2lep.org/UI4G>

[https://www.gov.uk/government/uploads/system/uploads/attachment\\_data/file/212280/13-p189-regional-growth-fund-annual-monitoring-report-2013.pdf](https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/212280/13-p189-regional-growth-fund-annual-monitoring-report-2013.pdf)

[https://www.gov.uk/government/uploads/system/uploads/attachment\\_data/file/219099/RGF-case-studies-1-8.pdf](https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/219099/RGF-case-studies-1-8.pdf)

- **Regional Growth Fund (RGF): Leicester & Leicestershire Enterprise Partnership (LEP)**

To provide a SME Growth Fund grant scheme which from October 2010 will establish a £7.8m fund to provide 25% capital investment grants of up to £150k to SMEs in the manufacturing sector to businesses in Leicester and Leicestershire region. The fund will support SMEs in the manufacturing sector that have struggled to access capital finance due to the uncertain global lending markets by removing this major barrier to growth. The Minimum grant funding that can be applied for is £25,000. The Maximum grant funding that can be applied for is £150,000 dependent upon total project cost and job creation. The grant is allocated on a 1:3 ratio, 25% of the total project cost. Therefore a minimum of £25,000 grant is allocated on a total project cost of £100,000.

Criteria for companies applicable are:

- Based in the City of Leicester and County of Leicestershire.
- Moving into the above area
- Plans for growth and the creation of jobs within 12 months of project completion
- Small and Medium Enterprise's (SME).
- Has received less than 200,000 Euro in public support over the past three years (including the grant amount within this application)

For eligible SMEs to:

- Invest and strengthen their business
- Create or protect jobs
- Build on creativity

Technologies covered

- Machinery acquisition
- Infrastructure improvement

**Contact**

Leicester & Leicestershire Enterprise Partnership (LLEP)  
Sue Tilley  
[sue.tilley@llep.org.uk](mailto:sue.tilley@llep.org.uk)

**Webpage**

<https://www.gov.uk/regional-growth-fund-a-guide-for-small-and-medium-enterprises-smes>

<http://www.llep.org.uk/rgfllepsmegrowthfund>

[https://www.gov.uk/government/uploads/system/uploads/attachment\\_data/file/212280/13-p189-regional-growth-fund-annual-monitoring-report-2013.pdf](https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/212280/13-p189-regional-growth-fund-annual-monitoring-report-2013.pdf)

[https://www.gov.uk/government/uploads/system/uploads/attachment\\_data/file/219099/RGF-case-studies-1-8.pdf](https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/219099/RGF-case-studies-1-8.pdf)

- **The Lloyds Banking Group Regional Growth Fund**

An assisted asset purchase scheme started in 2011 to obtain a grant towards the purchase of assets where they would not ordinarily be eligible for funding due to a lack of deposit. The size of the grant is based on the cost of the asset, the size of the SME, and the number of jobs being created/ safeguarded. The RGF grant will be utilised as a deposit towards the purchase of an asset with the remaining funding provided by a Hire Purchase or Term Loan product. Businesses will also be required to contribute a deposit from their own funds towards the purchase of the asset (any asset!), and will need to meet other scheme eligibility criteria and normal viability criteria to qualify for a RGF grant.

Applicable for SMS that

- Is able to create or safeguard jobs for a minimum of 12 months
- Needs bank finance (Loan or Hire Purchase), but lacks sufficient deposit to meet conventional lending requirements
- Have not/ will not receive other State Aid in support of the asset purchase (any amount received must be deducted from the maximum possible grant)

**Contact**

Lloyds TSB

[amina.ahmad@lloydstsb.co.uk](mailto:amina.ahmad@lloydstsb.co.uk)

**Webpage**

<http://www.lloydstsbbusiness.com/>

- **Regional Growth Fund (RGF): Nottingham Technology Grant Fund Group**

The Nottingham Technology Grant Fund (NTGF) will support three key growth sectors in the city: health and life science; digital content; **and green/clean technology**. It will offer grants of between £20k and £1m to companies in the City of Nottingham plus the three surrounding Districts of Broxtowe, Gedling and Rushcliffe.

The programme will stimulate economic growth within these sectors, through grants supporting intellectual property, new technology development and capital infrastructure development, leading to the creation of new private sector employment. The Application process is from 1 April 2013 to 30 September 2014. Successful applicants will be required to spend and claim all grant funding by 31 March 2015.

For eligible SMEs to:

- Invest and strengthen their business
- Create or protect jobs
- Build on creativity

**Contact**

Nottingham City Council

Mark Lynam

[mark.lynam@nottinghamcity.gov.uk](mailto:mark.lynam@nottinghamcity.gov.uk)

**Webpages**

<https://www.gov.uk/regional-growth-fund-a-guide-for-small-and-medium-enterprises-smes>

<http://www.nottinghamcity.gov.uk/ntech-fund>

Evaluation Report

[https://www.gov.uk/government/uploads/system/uploads/attachment\\_data/file/212280/13-p189-regional-growth-fund-annual-monitoring-report-2013.pdf](https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/212280/13-p189-regional-growth-fund-annual-monitoring-report-2013.pdf)

[https://www.gov.uk/government/uploads/system/uploads/attachment\\_data/file/219099/RGF-case-studies-1-8.pdf](https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/219099/RGF-case-studies-1-8.pdf)