

Title: Impact Assessment for the Microgeneration Strategy Lead department or agency: DECC Other departments or agencies:	Impact Assessment (IA)
	IA No: DECC0046
	Date: 06/06/11
	Stage: Final
	Source of intervention: Domestic
	Type of measure: Other (not regulation)
	Contact for enquiries: Paul Rochester, Lily Tang

Summary: Intervention and Options

<p>What is the problem under consideration? Why is government intervention necessary?</p> <p>Sub-50kWe electricity Microgeneration currently receives subsidy support through the Feed-in Tariffs (FITs) scheme. Renewable heat generation (including sub-300kWth) is due to receive subsidy support via the forthcoming Renewable Heat Incentive (RHI). Before the extension of the RHI to microgeneration in the domestic sector, currently planned for October 2012, the Government is seeking to introduce Renewable Heat Premium Payments (RHPP), a programme of grants for domestic microheat which will launch on 1st August 2011. While the RHI/FITs can help to address financial barriers to deployment, they do not directly (or completely) tackle non-financial barriers to uptake e.g. supply-chain barriers and lack of consumer information and advice. Government, working with the industry and wider stakeholders has therefore developed a Microgeneration Strategy which, through industry adopting voluntary actions, will tackle key non-financial barriers to greater deployment of Microgeneration. Removing (or reducing) these barriers will be important for supporting uptake under the RHI and FITs and thus aid the delivery of our renewable energy and carbon reduction targets. The Strategy will attempt to address market failure for example in the following areas: insufficient market for quality assurance, undersupplied public goods (such as technology innovation and training / education) and information asymmetry.</p>	
<p>What are the policy objectives and the intended effects?</p> <p>The policy objective is to overcome non-financial barriers to Microgeneration as raised in consultation with a cross section of the industry, including those that result from market failure (e.g. insufficient provision of skills training and lack of information provision), thus ensuring that expected Microgeneration uptake under the RHI/RHPP and FITs is achievable.</p> <p>Key benefits of Microgeneration are: greater consumer engagement (including greater energy awareness, potentially leading to lower energy demand and load-shifting); public acceptance of alternative ways of delivering energy needs; diversified energy mix; reduced dependence on (imported) fossil fuels; greater energy security at the small scale; business and employment opportunities (the higher costs of small scale installations partly being explained by greater labour intensity) in developing and deploying renewable energy technologies; avoidance of/reductions in losses through transmission/distribution networks through making better use of such infrastructure and realising the benefits of using electricity at the point that it is generated; innovation benefits; and potential reductions in technology costs as a result of roll-out.</p>	
<p>What policy options have been considered? Please justify preferred option (further details in Evidence Base)</p> <ul style="list-style-type: none"> • Implement a Microgeneration Strategy (containing Government proposals for voluntary industry action to address key non-financial barriers to greater deployment of Microgeneration technologies) <p>Our preferred option is to implement the Strategy so as to ensure that the projected Microgeneration uptake under FITs and RHI/ RHPP, and their contribution to delivering the renewable energy target and carbon savings, is achievable. The Do-Nothing option (i.e. maintaining the status quo) would risk leaving certain non-financial barriers in place and therefore potentially constrain the level of uptake that is feasible/expected under RHI/RHPP and FITs.</p>	
<p>When will the policy be reviewed to establish its impact and the extent to which the policy objectives have been achieved?</p>	<p>Progress will be monitored through the Government-Industry Contact Group</p>
<p>Are there arrangements in place that will allow a systematic collection of monitoring information for future policy review?</p>	<p>Yes</p>

SELECT SIGNATORY Sign-off For consultation stage Impact Assessments:

I have read the Impact Assessment and I am satisfied that, given the available evidence, it represents a reasonable view of the likely costs, benefits and impact of the leading options.

A handwritten signature in black ink, appearing to be 'L. S. R.', written over a horizontal line.

Signed by the responsible SELECT SIGNATORY:

Date: 21 June 2011

Summary: Analysis and Evidence

Policy Option

Description: Implement the Microgeneration Strategy

Price Base Year	PV Base Year	Time Period Years	Net Benefit (Present Value (PV)) (£m)		
			Low: n/a	High: n/a	Best Estimate: n/a
COSTS (£m)	Total Transition (Constant Price) Years		Average Annual (excl. Transition) (Constant Price)		Total Cost (Present Value)
Low	n/a		n/a		n/a
High	n/a		n/a		n/a
Best Estimate	n/a				
Description and scale of key monetised costs by 'main affected groups'					
<ul style="list-style-type: none"> - There is insufficient evidence to quantify or monetise the costs of the Microgeneration Strategy to industry/end consumers. - There will be some costs to the public purse as a result of Government providing funding to the Energy Efficiency Partnership for Homes for their work in facilitating the Government-Industry Contact Group (GICG). Costs for 2011/12 are estimated to be £36,600, and provisional estimates are that costs for 2012/13 will also be in the order of £36,600. For 2011/12, 66 FTE days (£23,776) is required to set up and support 6 workstreams and 6 regular meetings of the group. The balance of the funding is to facilitate two workshops and meeting rooms. 					
Other key non-monetised costs by 'main affected groups'					
<ul style="list-style-type: none"> - Government will work together with industry to help facilitate implementation of the Strategy, including through the GICG, and so some level of staffing cost may be incurred. We do not have sufficient evidence to quantify these potential costs compared with business-as-usual staffing costs. - There is a potential risk that implementing the Microgeneration Strategy could encourage greater uptake than we have projected under the RHI and FITs, which would drive up subsidy costs of those schemes. We are unable to quantify the size of this risk, however both schemes will be regularly reviewed. - Given that the proposals in the Microgeneration Strategy involve action by industry, it is expected that industry may incur costs as a result of introducing the Strategy (including costs of participating in the GICG), and that at least some of these costs would be expected to be passed on to consumers. We do not have sufficient information/evidence to be able to quantify the expected costs to industry/end consumers, and given that the proposals are voluntary in nature, this also adds to the uncertainty of potential size of costs. 					
BENEFITS (£m)	Total Transition (Constant Price) Years		Average Annual (excl. Transition) (Constant Price)		Total Benefit (Present Value)
Low	n/a		n/a		n/a
High	n/a		n/a		n/a
Best Estimate	n/a				
Description and scale of key monetised benefits by 'main affected groups'					
<ul style="list-style-type: none"> - There is insufficient evidence to quantify or monetise the benefits of the Microgeneration Strategy. 					
Other key non-monetised benefits by 'main affected groups'					
<ul style="list-style-type: none"> - Key benefits that will arise from the Microgeneration Strategy include: <ul style="list-style-type: none"> - Better coordination across the disparate Microgeneration sector - Greater certainty for industry and consumers e.g. as a result of better information sharing/provision and a more cohesive approach to Microgeneration deployment - Benefits of Government leadership - Whilst industry may be expected to incur costs as a result of the Microgeneration Strategy, there should also be benefits to industry as demand for (and deployment of) Microgeneration increases over time. There could also be cost reductions to industry in driving forward Microgeneration, as a result of better coordination across the sector and better provision of consumer information. - Implementing the strategy will support deployment of Microgeneration under the RHI/RHPP and FITs and thus help to deliver the wider benefits associated with deployment of Microgeneration, such as behavioural change and greater consumer engagement. 					

Key assumptions/sensitivities/risks	Discount rate	n/a
<p>The RHI and FITs are designed primarily to address financial barriers to uptake of Microgeneration. Therefore these schemes will not in themselves overcome some of the non-financial barriers to greater uptake (e.g. lack of skilled labour or insufficient provision of consumer information and advice). The proposed Microgeneration Strategy aims to specifically address the non-financial barriers to Microgeneration deployment and to support the level of feasible/expected uptake under RHI and FITs.</p> <p>However, the RHI tariffs in particular do try to address some non-financial barriers to uptake, and so there is a risk that should the Strategy overlap with the way the RHI tariffs are set (e.g. if RHI tariffs partly compensate for lack of familiarity/trust in the heat technologies, but the Strategy also attempts to tackle some of these barriers through better information provision and ensuring quality of products), then the Strategy could lead to higher than expected uptake (and hence costs), and/or RHI tariffs could overcompensate investors for non-financial barriers. On the other hand, greater than expected uptake would mean higher carbon saving benefits. The Strategy should help to support the longevity of products and provide a better understanding of maintenance requirements and help to develop and deliver maintenance services.</p> <p>Given that 1) the Strategy attempts to cover non-financial barriers that are assumed not to be sufficiently addressed by the RHI/FITs (e.g. supply chain barriers – from R&D through to training); and 2) the impacts of the Strategy in terms of reducing barriers to uptake will take time to materialise, this risk should be minimised. In addition, both RHI and FITs will be regularly reviewed to monitor uptake and costs (and ensure that uptake/costs are not significantly higher than expected and ensure that investors are not over-compensated) .</p>		

Impact on admin burden (AB) (£m):	N/A	Impact on policy cost savings (£m):	In scope
New AB:	AB savings:	Net:	Policy cost savings:
			No

Enforcement, Implementation and Wider Impacts

What is the geographic coverage of the policy/option?	England				
From what date will the policy be implemented?	September 2011				
Which organisation(s) will enforce the policy?	DECC				
What is the annual change in enforcement cost (£m)?	n/a				
Does enforcement comply with Hampton principles?	n/a				
Does implementation go beyond minimum EU requirements?	Yes				
What is the CO ₂ equivalent change in greenhouse gas emissions? (Million tonnes CO ₂ equivalent)	Traded: n/a	Non-traded: n/a			
Does the proposal have an impact on competition?	Yes				
What proportion (%) of Total PV costs/benefits is directly attributable to primary legislation, if applicable?	Costs: n/a	Benefits: n/a			
Annual cost (£m) per organisation (excl. Transition) (Constant Price)	Micro unknown	< 20 unknown	Small unknown	Medium unknown	Large unknown
Are any of these organisations exempt?	N/A	N/A	N/A	N/A	N/A

Specific Impact Tests: Checklist

Set out in the table below where information on any SITs undertaken as part of the analysis of the policy options can be found in the evidence base. For guidance on how to complete each test, double-click on the link for the guidance provided by the relevant department.

Please note this checklist is not intended to list each and every statutory consideration that departments should take into account when deciding which policy option to follow. It is the responsibility of departments to make sure that their duties are complied with.

Does your policy option/proposal have an impact on...?	Impact	Page ref within IA
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Statutory equality duties¹ <u>Statutory Equality Duties Impact Test guidance</u>	No	n/a
Economic impacts		
Competition <u>Competition Assessment Impact Test guidance</u>	Yes	11
Small firms <u>Small Firms Impact Test guidance</u>	Yes	11-12
Environmental impacts		
Greenhouse gas assessment <u>Greenhouse Gas Assessment Impact Test guidance</u>	No	n/a
Wider environmental issues <u>Wider Environmental Issues Impact Test guidance</u>	No	n/a
Social impacts		
Health and well-being <u>Health and Well-being Impact Test guidance</u>	No	n/a
Human rights <u>Human Rights Impact Test guidance</u>	No	n/a
Justice system <u>Justice Impact Test guidance</u>	No	n/a
Rural proofing <u>Rural Proofing Impact Test guidance</u>	No	n/a
Sustainable development <u>Sustainable Development Impact Test guidance</u>	No	n/a

If any impacts as listed in the table arise, then this will be primarily as a result of the RHI and FITs and will therefore be set out in the Impact Assessments that accompany those schemes.

Evidence Base (for summary sheets) – Notes

Use this space to set out the relevant references, evidence, analysis and detailed narrative from which you have generated your policy options or proposal. Please fill in **References** section.

References

Include the links to relevant legislation and publications, such as public impact assessment of earlier stages (e.g. Consultation, Final, Enactment).

No.	Legislation or publication
1	http://www.decc.gov.uk/en/content/cms/consultations/elec_financial/elec_financial.aspx
2	http://decc.gov.uk/en/content/cms/consultations/rhi/rhi.aspx
3	http://www.decc.gov.uk/assets/decc/Consultations/microgen-strategy/668-energy-generating-democracy-microgen.pdf
4	http://www.decc.gov.uk/assets/decc/what%20we%20do/uk%20energy%20supply/energy%20mix/renewable%20energy/explained/microgen/file27575.pdf
5	http://www.decc.gov.uk/en/content/cms/meeting_energy/Renewable_ener/incentive/incentive.aspx
6	http://www.decc.gov.uk/assets/decc/Consultations/microgen-strategy/1077-consultation-on-a-microgeneration-strategy.pdf

+ Add another row

Evidence Base

Ensure that the information in this section provides clear evidence of the information provided in the summary pages of this form (recommended maximum of 30 pages). Complete the **Annual profile of monetised costs and benefits** (transition and recurring) below over the life of the preferred policy (use the spreadsheet attached if the period is longer than 10 years).

The spreadsheet also contains an emission changes table that you will need to fill in if your measure has an impact on greenhouse gas emissions.

Annual profile of monetised costs and benefits* - (£m) constant prices

	Y ₀	Y ₁	Y ₂	Y ₃	Y ₄	Y ₅	Y ₆	Y ₇	Y ₈	Y ₉
Transition costs										
Annual recurring cost										
Total annual costs										
Transition benefits										
Annual recurring benefits										
Total annual benefits										

* For non-monetised benefits please see summary pages and main evidence base section



Microsoft Office
Excel Worksheet

Evidence Base (for summary sheets)

Impact Assessment accompanying the Microgeneration Strategy

Background

- 1) The Coalition Government's vision of the new energy economy has a far greater role for a wide range of distributed generation and heat technologies. There will be a role for small-scale energy producers in homes, schools, offices and factories around the country to complement the substantial new investments needed in large-scale CCS, nuclear and renewables such as offshore wind. A new supply of locally-produced heat and power can help make us all more self-reliant in our energy needs.
- 2) While it is recognised that smaller scale technologies are currently less cost-effective (in £/MWh terms) than larger scale technologies, smaller scale technologies (including Microgeneration) still contribute to meeting our renewable energy and carbon reduction targets and could bring wider benefits of fostering behavioural change, diversifying the energy mix, driving technological innovation and realising the benefits of generating energy at the point of use (e.g. reduced transmission and distribution losses in the case of electricity).
- 3) To overcome financial barriers to more widespread uptake of renewable technologies, Government has introduced a Feed-In Tariffs (FITs) scheme and a Renewable Heat Incentive (RHI) scheme, although this has not yet been extended to domestic micro-heat. Before the extension of the RHI to microgeneration in the domestic sector, currently planned for October 2012, the Government is seeking to introduce the Renewable Heat Premium Payment (RHPP), a programme of grants for domestic microheat which will launch on 1st August 2011. These financial incentive schemes focus on incentivising small scale low carbon electricity (sub-5MW renewable electricity and domestic scale micro-CHP) and renewable heat respectively.
- 4) As well as aiming to address financial barriers to uptake, the RHI to some extent will also look to address some non-financial barriers such as hassle costs. However there are likely to remain other key non-financial barriers that could deter investment².
- 5) The Microgeneration Strategy covered in this Impact Assessment aims to specifically address non-financial barriers and hence support the deployment of Microgeneration under the RHI/RHPP and FITs. The Strategy aims to cover sub-50kWe installations for electricity and sub-300kWth installations for heat (as per the definition of Microgeneration in the Green Energy Act 2009 - see para 8 below).
- 6) In 2006³ HM Government published its first Microgeneration Strategy, which aimed to facilitate greater deployment of Microgeneration. Key achievements included:
 - Introduction of permitted development for domestic Microgeneration technologies.
 - The Microgeneration certification scheme (MCS) was launched as part of that strategy.
 - The big six energy suppliers, as well as some of the smaller ones started to offer export tariffs for excess electricity sold back to the grid.
 - Ofgem, the Energy Saving Trust (EST) and energy supplier committed to providing impartial advice to consumers on obtaining the best financial rewards for their Microgeneration investment(s)

² Evidence for the existence of barriers to uptake for heat technologies at all scales (both financial and non-financial) were set out in work by Enviro to inform analysis for the RHI. For further information, please see: "Enviro (2008), Barriers to Renewable Heat: Executive Summary" available at: www.decc.gov.uk/assets/decc/consultations/renewable%20energy%20strategy%20consultation/related%20documents/1_2009_0501125156_e_@@_lexecutivesummaryv10.pdf

³ http://www.decc.gov.uk/assets/decc/consultations/renewable%20energy%20strategy%20consultation/related%20documents/1_2009_0501125156_e_@@_lexecutivesummaryv10.pdf

- 7) The Microgeneration Strategy that DECC proposes now aims to build on the progress made under the previous strategy. Some actions in the previous strategy did not go as far as they could. For example, there was a commitment to assess current consumer communications, but there was no commitment to developing a communications package. This proposed Microgeneration Strategy is now tackling that. In terms of technology, we have learnt from field trials and grant programmes that the supply chain needs to be developed. The skills and knowledge work proposed in the new strategy will help to deliver that. The previous strategy did not look at maintenance of installations which is critical to encouraging greater uptake of Microgeneration. The MCS scheme was successfully introduced to ensure quality of products being installed. This now needs to be developed further to cater for a growing market and to improve the quality and performance of installations.
- 8) In addition, the Green Energy (Definition and Promotion) Act 2009⁴ came into force in January 2010. Central to the purposes of the Act are provisions to promote development, installation and usage of microgeneration. One such provision, at Section 2 of the 2009 Act, is a requirement for the Secretary of State to prepare and publish a strategy for the promotion of microgeneration in England. This impact assessment covers the proposed Microgeneration Strategy.

Problem under consideration

- 9) The market for Microgeneration is currently under-developed and small in size. While FITs and RHI/RHPP are able to provide financial incentives for small scale low carbon electricity and renewable heat generation (and to some extent in the case of RHI attempts to address some non-financial barriers e.g. hassle costs), some non-financial barriers to uptake will still remain and could constrain the levels of feasible/expected uptake under the RHI/RHPP and FITs.
- 10) Action is therefore required to address key non-financial barriers such as insufficient consumer information and advice that may constrain the growth of Microgeneration.
- 11) Further enabling and encouraging Microgeneration will bring about associated benefits of consumer engagement and should foster behavioural change which is at the root of a step change in the UK's energy system.

Rationale for intervention

- 12) FITs and RHI are not expected to be able to tackle all of the non-financial barriers to Microgeneration uptake e.g. lack of a competent workforce or insufficient provision of consumer information and advice (although RHI does include compensation for overcoming some monetised non-financial barriers, such as additional time requirements for installing renewable heat technologies, and specifically for Microgeneration technologies the cost associated with space requirements and the hassle of taking fuel deliveries (for biomass boilers), and the digging up of gardens (for ground-source heat pumps).
- 13) Intervention is therefore needed to address any remaining non-financial barriers, so as to ensure that the market for Microgeneration technologies is sustainable over the longer-term and that the potential for uptake under RHI and FITs is realisable. Technology development, including greater emphasis on research and development, is also needed so that the UK can lead in future innovations in the delivery of small scale onsite renewable energy. There are also developments in moving to a system approach that need to be understood and articulated so that the industry and consumers can take action.
- 14) This Microgeneration Strategy aims to address a range of non-financial barriers that could prevent the microgeneration sector from realising its full potential. Key non-financial barriers were identified through an initial collaborative consultation process, where Government invited a cross-section of those with knowledge and expertise in the field to contribute to the development of the draft

strategy⁵. Four working groups were set up to look at key areas of non-financial barriers. The process was facilitated by the Energy Efficiency Partnership for Homes and each working group comprised representatives from trade associations, consumer bodies and other representative groups (rather than individual companies). This initial consultation process (and confirmed by the formal consultation process) identified that four key groups of non-financial barriers to Microgeneration uptake needed to be addressed:-

- **Quality:** to ensure consumers have confidence that equipment and installation is reliable and adheres to the highest standards.
- **Technology:** to examine how to improve products – utilising both a systems approach and technology specific approach as necessary.
- **Skills:** to develop the microgeneration supply chain to ensure it is properly equipped with the right people to meet the expected rise in demand, as well as creating and sustaining jobs in the UK.
- **Information:** to provide more accessible advice and information about microgeneration to residents, communities and small businesses.

- 15) To an extent, some barriers may exist as a result of market failure e.g. lack of consumer information and advice (because provision of information/advice by one particular company may benefit other companies within that sector). Likewise R&D into a particular technology may provide benefits to an entire technology sector, potentially discouraging any single company from investing in R&D.
- 16) Furthermore, the Microgeneration sector is a nascent industry and very disparate in nature (involving businesses that cover energy suppliers, retailers (e.g. supermarkets), manufacturers, distributors, installers and finance providers). The sector is hard to define and this makes it difficult for industry to take a focused and cohesive approach to resolving barriers to greater Microgeneration uptake.
- 17) The Microgeneration Strategy aims to provide Government leadership that will build on the achievements of the previous Strategy and enable a coherent approach to addressing the identified barriers to uptake, with industry working together (and alongside Government) to address barriers as effectively as possible to the benefit of the Microgeneration sector as a whole. Reducing the extent of non-financial barriers in the above key areas will in turn be important for supporting Microgeneration uptake under the RHI/RHPP and FITs, and help deliver the associated benefits (e.g. of greater consumer engagement and potential behavioural change).
- 18) The Microgeneration will be positioned as an Action Plan with the primary responsibility for industry. The industry and stakeholders have been actively involved in developing the Strategy and therefore are committed to its implementation.

Policy objective

- 19) The policy objective is to address the above identified non-financial barriers in order to ensure a more ready supply chain and greater consumer confidence in taking up Microgeneration technologies. This in turn will support the growth of Microgeneration uptake under the RHI and FITs. The renewable financial incentives schemes (RHI/FITs) are not expected on their own to be able to fully address such barriers.

Description of options considered

- 20) A single option is considered in this Impact Assessment.

- **Implement a Microgeneration Strategy** (containing Government proposals for voluntary industry action to address key non-financial barriers to greater deployment of Microgeneration technologies)

- 21) Further options such as regulation were considered to be unnecessary given the nature of the barriers to uptake, which can be addressed through voluntary industry action, thus avoiding unnecessary regulatory burden.
- 22) Implementing the Microgeneration Strategy will involve undertaking actions to reduce barriers to uptake across the areas of Quality Assurance, Skills Development, Technology Innovation and Information and Advice. This therefore covers both demand side (e.g. information) barriers and supply side (e.g. skills) barriers.
- 23) The development of proposals in the Strategy began with an initial consultation process (as explained in paragraph 14 above) where a cross-section of industry, working together with Government, set out the key barriers to further microgeneration uptake and proposed various actions that could address these barriers. A Government Industry Contact Group (GICG) was formally set up as a result of the initial consultation process and met for the first time in February 2011. The group has since convened on a monthly basis and, at a planning workshop held in May, the group decided on how to develop a Microgeneration Strategy action plan. This plan forms the basis of the activity during the implementation stage of the Microgeneration Strategy, facilitated by the Energy Efficiency Partnership for Homes. The action plan will involve key voluntary actions by industry as set out in Table 1 below. These actions are largely in line with those listed in the consultation stage IA (given that the consultation process has been a collaborative one).
- 24) It should be noted that Table 1 sets out the key actions of the Microgeneration Strategy, however it does not provide an exhaustive list of the proposals. Comprehensive information on the full set of proposed actions (together with key milestones and responsibilities) can be found in the Action Plan accompanying this Impact Assessment. Progress of the action plan will be overseen by the GICG who will act as a steering board. Primary responsibility for taking forward actions in the Plan will lie with industry.

Table 1: Key Microgeneration Strategy Actions

<p>Quality and Standards</p>	<p>Aim: strengthen the role of certification and standards in order to provide quality assurance. This will be done through making changes to the Microgeneration Certification Scheme (MCS) (an accreditation scheme that aims to ensure quality/reliability/durability/safety of products and installation). Actions include the following:</p> <ul style="list-style-type: none"> • Improve the governance of MCS by re-establishing it as a not-for-profit CLG - with clear roles and responsibilities for the board, chairman and chief exec • Market MCS much more widely (increase consumer awareness of the scheme) • Incorporate competency requirements in MCS – enabling improved up-skilling of installers. The training of installers will not be a mandatory requirement but the industry will be considering how it can work towards putting in place a competent workforce • Produce a clear and concise consumer protection guide – so consumers have clear understanding of warranties and insurances • Review the Standard Assessment Procedure (SAP) to include specific elements related to microgeneration that enables accurate representation of contribution of microgen technologies to low carbon homes and buildings
<p>Skills Development</p>	<p>Aim: support growth of the Microgeneration sector by enabling a sufficiently skilled workforce to ensure that the supply side can respond to an increase in expected demand in this rapidly growing sector. Specific actions to ensure that skills needs are met include:</p> <ul style="list-style-type: none"> • The National Skills Academy (NSA) to bring greater coordination to the skills agenda for the Microgeneration industry • Undertake an audit of all courses available so those wishing to access training can easily see what is available • Sector Skills Councils with an interest in Microgeneration to be involved in the work of the NSA and share information in order to provide a coherent package across all the relevant industry sectors • Ensure existing heating engineers, plumbers and electricians have a clear route to up skill in order to install microgeneration technologies • Ensure high quality design is integral to every installation – to reduce inappropriate technology application and poor performance
<p>Technology-Specific</p>	<p>Aim: technology development plays a vital role in the development of the overall market for Microgeneration. Actions to ensure continued progress on the technology front include:</p> <ul style="list-style-type: none"> • Industry to identify specific actions that can be taken over the next 12 months to promote a systems

	<ul style="list-style-type: none"> • Industry to develop fact sheets for each technology which includes info on maintenance, performance/operation, and longevity of key components – useful for consumers and installers • DECC to facilitate informal contact between GICG and Ofgem/Energy Network Association to consider connection issues – clearer understanding of grid demand and connecting issues will help enable greater uptake of microgen • Industry to explore the opportunities available to expand the microgeneration sector, from engagement in EU technology development and demonstration initiatives such as the Strategic Energy Technology Plan and Framework Programme 7 Energy.
Information and Advice	<p>Aim: microgeneration technologies are still relatively unknown/not fully understood by the majority of potential consumers. Improving the dissemination of information and advice will support the development of the Microgeneration industry. Specific actions include:</p> <ul style="list-style-type: none"> • Use coherent whole house approach to advice and information, under the umbrella of the Green Deal • Improve marketing of microgen concept and potential benefits – identify target audience and core messages • Empower consumers – by improving their awareness of MCS and different source of independent advice on microgen • Train installers so that they can provide onsite information and advice to customers

Costs and Benefits of implementing the Microgeneration Strategy

Costs

- 25) Government is continuing to work together with industry, through the recently established Government-Industry Contact Group, to help facilitate implementation of the Microgeneration Strategy. It is possible that some level of staffing cost (over and above business-as-usual costs) is being incurred. However, it may also be the case that there are efficiency savings to Government as a result of working together with the Contact Group rather than a much wider range of stakeholders in a fragmented way. We do not have sufficient evidence to be able to quantify the extent of any costs (benefits) compared with business-as-usual staffing costs, however any impacts are not expected to be significant.
- 26) There is a potential risk that implementing the Microgeneration Strategy could encourage greater uptake than we have projected under the RHI and FITs alone, which would drive up subsidy costs of the schemes. We are unable to quantify the size of this risk, however both schemes will be regularly reviewed in order to manage risks around greater than expected uptake and overly generous tariff levels. In addition, the proposed Microgeneration Strategy aims to address barriers to uptake that the RHI/FITs are not expected to be able to fully address, hence minimising the risk of 'double intervention'.
- 27) Given that the proposals in the Microgeneration Strategy involve action by industry, it is expected that industry may incur costs as a result of introducing some of the actions proposed in the Strategy (which they may ultimately pass on to their customers i.e. consumers). We do not have sufficient information/evidence to be able to quantify the expected costs to industry (or to end consumers), and given that the majority of the proposals are voluntary in nature, this also adds to the uncertainty of potential size of costs. However the types of cost that industry may be expected to incur are set out qualitatively below. Whether these costs materialise, and the level of any such costs, will depend on the extent to which industry responds to the proposals contained in the Microgeneration Strategy action plan.

Government Industry Contact Group

- The Government Industry Contact Group (GICG) has already been established and met for the first time in February 2011. Initial costs for this have been absorbed within the Energy Efficiency Partnership for Homes' budget. DECC has committed a further £36,600 over this financial year (2011/12) to support the work of GICG. Initial estimates are that costs for 2012/13 are also likely to be in the order of £36,600. For 2011/12, 66 FTE days (£23,776) is required to set up and support 6 workstreams and 6 regular meetings of the group. The balance of the funding is to facilitate two workshops and meeting rooms. The GICG will play an important role in the implementation of the Strategy.

Quality and Standards

- Development of MCS in line with the action plan may involve additional costs to industry (the scheme operates on a self-financing basis without Government subsidies). For example, proposals to develop MCS will incur costs for the industry which might then be passed on to consumers. The scheme is self-financed by industry registration fees paid as part of their certification costs and an installation fee of £15.00 for each MCS approved installation. Incorporating competency requirements into MCS may also create additional costs for industry through requiring higher training standards.
- Any costs/benefits that result from a change to the Standard Assessment Procedure (SAP) will be covered in a separate Impact Assessment for the 2013 Amendments to Part L of the Building Regulations. SAP is the method of demonstrating compliance to Part L, which covers the conservation of fuel and power in both dwellings and non-dwellings. SAP only focuses on dwellings.

Skills Development

- Costs to deliver the National Skills Academy business plan would be borne by industry. This will require negotiation between the Sector Skills Council and relevant industry sectors.

Technology-Specific Issues

- Producing technology fact sheets could involve costs to industry.

Information and Advice

- Industry would need to incur spend in order to raise consumer awareness of technologies and benefits of a systems approach.
- Designing and planning a series of 'installer road shows / workshops' around the country is likely to incur cost to participants and relevant stakeholders who plan these events. There is likely however to be some overlap on information and advice with Green Deal. Costs for this are yet to be confirmed as the Green Deal will not be launched until October 2012 and would be subject of a separate Impact Assessment.

28) The Microgeneration Strategy will, alongside FITs, support the growth of electricity Microgeneration and hence could impact on costs relating to increased balancing requirements for the grid. We do not have evidence to quantify any such impact.

29) Specific proposals e.g. improving the operation of the MCS scheme or raising product/installation standards, whilst ensuring quality and reliability of products and installation to the consumer, could increase costs to industry and hence act as a barrier to entry for new entrants to the market (particularly smaller installers/manufacturers). This in turn could restrict competition within the market. On the other hand, encouraging higher quality products should also help drive competition in the market.

Benefits

30) The Microgeneration Strategy is expected to yield benefits of Government leadership, better focus and communication across the disparate Microgeneration sector, greater information provision and more certainty of standards. This will support the growth of this nascent industry.

31) Whilst industry action (on a voluntary basis) as a result of the Microgeneration Strategy could lead to costs for industry, such action would also be expected to yield benefits for industry as a result of greater demand for microgeneration and an increase in the size of the microgeneration market. Indeed it is the prospect of these wider benefits to the sector as a whole that would lead industry to act on a voluntary basis. We do not have sufficient evidence to quantify the extent or value of these benefits, however the projected uptake of installations under FITs is provided in the FITs impact assessment at: http://www.decc.gov.uk/en/content/cms/consultations/elec_financial/elec_financial.aspx (new estimates for uptake under FITs may be provided as a result of the FITs comprehensive review currently

underway). This illustrates the extent to which the (electricity) microgeneration sector could grow over the coming decade.

- 32) The Microgeneration Strategy will, alongside RHI/RHPP and FITs, support the growth of Microgeneration and thus help to deliver the wider benefits of: greater consumer engagement (including greater energy awareness, potentially leading to lower energy demand and load-shifting); public acceptance of alternative ways of delivering energy needs; diversifying the energy mix; reducing dependence on (imported) fossil fuels; greater energy security at the small scale; business and employment opportunities (the higher costs of small scale installations partly being explained by greater labour intensity) in developing and deploying renewable energy technologies; avoidance of/reductions in losses through transmission/distribution networks through making better use of such infrastructure and realising the benefits of using electricity at the point that it is generated; innovation benefits; and potential reductions in technology costs as a result of roll-out. A more developed market for microgeneration will also increase competition and allow better access for emerging technologies and new businesses.
- 33) The promotion of Microgeneration could improve competition in the energy markets by giving consumers greater choice over how they power and heat their homes.
- 34) It should be noted that the Microgeneration Strategy will cover England only, whereas FITs and the proposed RHI/RHPP will cover England, Scotland and Wales. Therefore the benefits of the Strategy will be limited to the extent of its coverage⁶.

Risks and assumptions

- 35) There is a potential risk that implementing the Microgeneration Strategy could encourage greater uptake than we have projected under the RHI and FITs alone, which would drive up subsidy costs of the schemes. We are unable to quantify the size of this risk, however both schemes will be regularly reviewed in order to manage risks around greater than expected uptake and overly generous tariff levels. In addition, the proposed Microgeneration strategy aims to address barriers to uptake that the RHI/FITs are not expected to be able to fully address, hence minimising the risk of 'double intervention'.

Impact on small firms

- 36) On the one hand, small firms may benefit from the actions proposed in the Strategy e.g. the proposals should provide a more certain investment environment for small businesses to invest in Microgeneration technologies. On the other hand, changes to strengthen requirements under the MCS scheme could act as a barrier to entry for smaller installers and/or manufacturers.

⁶ The proposed Administration will be asking consumers to self-certify for their generation systems. This means that

Administrative burden

37) The proposals contained in the Microgeneration Strategy are all voluntary in nature (i.e. no mandatory requirements for industry to act). However, if industry follow the recommendations in the Strategy e.g. participate in the Government-Industry Contact Group, then they may incur some costs.

Summary and chosen option

38) The Microgeneration Strategy aims to address non-financial barriers to greater uptake of Microgeneration technologies, through recommended voluntary action by industry, and hence support the development of the Microgeneration market that is expected to materialise as a result of the RHI/RHPP and FITs.

39) The Green Energy Act 2009 requires Government to prepare and publish a strategy for the promotion of microgeneration in England.

Annexes

Annex 1 should be used to set out the Post Implementation Review Plan as detailed below. Further annexes may be added where the Specific Impact Tests yield information relevant to an overall understanding of policy options.

Annex 1: Post Implementation Review (PIR) Plan

A PIR should be undertaken, usually three to five years after implementation of the policy, but exceptionally a longer period may be more appropriate. A PIR should examine the extent to which the implemented regulations have achieved their objectives, assess their costs and benefits and identify whether they are having any unintended consequences. Please set out the PIR Plan as detailed below. If there is no plan to do a PIR please provide reasons below.

Basis of the review: [The basis of the review could be statutory (forming part of the legislation), it could be to review existing policy or there could be a political commitment to review];

Progress of the Strategy will be monitored via the Government-Industry Contact Group.

Review objective: [Is it intended as a proportionate check that regulation is operating as expected to tackle the problem of concern?; or as a wider exploration of the policy approach taken?; or as a link from policy objective to outcome?]

The proposed Strategy does not involve any changes to regulation.

Progress of the Strategy will be monitored to ensure that identified barriers to Microgeneration uptake are being addressed as intended.

Review approach and rationale: [e.g. describe here the review approach (in-depth evaluation, scope review of monitoring data, scan of stakeholder views, etc.) and the rationale that made choosing such an approach]

Industry will work together with Government, via the Government-Industry Contact Group, to take forward the Microgeneration Strategy action plan and will monitor progress against key milestones through regular meetings of the group. This is not expected to be more than bi-monthly although sub groups may be doing work in the mean time.

Baseline: [The current (baseline) position against which the change introduced by the legislation can be measured]

The baseline will be the status quo (i.e. no new Microgeneration Strategy).

Success criteria: [Criteria showing achievement of the policy objectives as set out in the final impact assessment; criteria for modifying or replacing the policy if it does not achieve its objectives]

Key information for measuring progress will include information on changes in the number of complaints from consumers who have installed microgeneration products, progress in training of installers etc.

Information obtained from the RHI/RHPP and FITs on development of the market will also help to assess progress (e.g. info on uptake rates, technology costs, ramping up of the supply chain, bottle-necks in the supply chain etc).

Monitoring information arrangements: [Provide further details of the planned/existing arrangements in place that will allow a systematic collection of monitoring information for future policy review]

Reasons for not planning a PIR: [If there is no plan to do a PIR please provide reasons here]

Progress of the Strategy will be monitored via the Government-Industry Contact Group.

Add annexes here.