



Department
of Energy &
Climate Change

UK Renewable Energy Roadmap Update 2013

Annex – Progress with Actions

November 2013

Renewable Energy Roadmap Actions

Introduction

1. Over two hundred separate activities to deliver the Government's renewable energy ambitions have been described since the UK Renewable Energy Roadmap was first launched in 2011. This document provides an update on on-going actions and highlights the new activities captured in the 2013 Update.

Aims

2. DECC has simplified the approach taken to reporting progress in delivering actions recorded in both the 2012 and 2013 Updates and those outstanding from the publication of the 2011 Roadmap.
3. This Annex only reports on those actions, which are on-going and new actions described in 2013. Already completed actions have been reported in the 2012 Roadmap Update with those completed over the last 12 months outlined in the main body of this year's Update.
4. Actions where the original key deliverables have been achieved but additional associated work has subsequently been identified have been classified as either a new action or linked to a related on-going action.
5. This Annex also seeks to streamline and consolidate actions with clear linkages and synergies, where it has been possible to do so.

Progress with Actions

6. Since the Renewable Energy Roadmap was published in 2011, more than 200 separate actions, some cross cutting and some technology specific, have been taken forward as part of the drive by UK and Devolved Governments to unlock barriers to renewable energy deployment in the UK. A total of 52 actions remain on-going and progress in delivering these over the last year is set out in this document. 27 key new actions have been described in the 2013 Roadmap Update.
7. DECC intends that the next Update to the Renewable Energy Roadmap will be published in late 2015, and biannually thereafter. This will align it with the submission of our progress reports under the Renewable Energy Directive to the EU Commission.

Progress with Completing On-Going Actions

Cross Cutting Actions

Barrier to Deployment	Action	Key Activities Achieved	Key Activities to be completed	Timing
Ensuring long term investment certainty through Electricity Market Reform (EMR) and the Energy Bill	Introduction of the Energy Bill.	<ul style="list-style-type: none"> Energy Bill introduced to Parliament (November 2012)¹. 	<ul style="list-style-type: none"> Energy Bill to complete passage through Parliament. 	Expected by end 2013, subject to Parliament.
	Delivering investment in low carbon electricity generation through Contracts for Difference (CfDs).	<ul style="list-style-type: none"> Draft CfD Strike Prices² (June 2013) and draft EMR Delivery Plan³ (July 2013) published for consultation. Draft CfD contract terms and CfD allocation policy⁴ published (August 2013) for scrutiny by stakeholders. 	<ul style="list-style-type: none"> Publish final EMR Delivery Plan for 2014/18 including final CfD strike prices and Capacity Market Reliability Standard. Publish final CfD Contract terms. 	<p>Expected December 2013.</p> <p>Expected December 2013.</p>
	Delivering investment in low carbon electricity generation through CfDs.	<ul style="list-style-type: none"> Consultation on proposals for Implementation of EMR⁵ published; including further information on managing the CfD budget and Levy Control Framework, developing the supply chain, and the CfD payment model, alongside key sections of draft implementing legislation (October 2013). 	<ul style="list-style-type: none"> Finalise implementing legislation for CfDs and the Capacity Market. 	Legislation to enter into force in July 2014, subject to Parliament.

¹ UK Parliament, Energy Bill 2012-13 to 2013-14: <http://services.parliament.uk/bills/2013-14/energy.html>

² DECC (2013), Electricity Market Reform (EMR), Appendix A: <https://www.gov.uk/government/publications/electricity-market-reform-delivering-uk-investment>

³ DECC (2013), Consultation on the draft EMR Delivery: <https://www.gov.uk/government/consultations/consultation-on-the-draft-electricity-market-reform-delivery>

⁴ DECC (2013), EMR CfD Contract and allocation overview; <https://www.gov.uk/government/publications/electricity-market-reform-contracts-for-difference> and DECC (2013), EMR CfD supplier obligation- policy update and response to call for evidence: https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/226897/CfD_Supplier_Obligation_-_policy_update_and_response_to_the_call_for_evidence_-_7_August_2013_-_FINAL.pdf

⁵ DECC (2013), EMR Consultation: <https://www.gov.uk/government/consultations/proposals-for-implementation-of-electricity-market-reform>

Barrier to Deployment	Action	Key Activities Achieved	Key Activities to be completed	Timing
Ensuring long term investment certainty through EMR and the Energy Bill	Ensuring secure electricity supplies through the Capacity Market.	<ul style="list-style-type: none"> Capacity Market 'Detailed Design Proposals'⁶ published (June 2013). Confirmation provided that Government will run the first Capacity Market auction⁶ in 2014 for delivery of capacity from the winter of 2018/2019 (June 2013). Consultation on proposals for Implementation of EMR⁵ published, including Capacity Market design proposals and draft implementing legislation (October 2013). 	<ul style="list-style-type: none"> As above. 	As above.
	Ensuring independent generators are able to participate in the energy market.	<ul style="list-style-type: none"> Amended Energy Bill to enable the Government to implement an 'Off taker of Last Resort' mechanism⁷ to provide greater certainty for renewable generators and investors. DECC initiated the CfD Market Readiness project⁸ to help small and independent generators prepare for the new system. 	<ul style="list-style-type: none"> Consult on detail of proposals. Finalise products and disseminate to stakeholders. 	<p>Early 2014</p> <p>Early 2014</p>
Ensuring long term investment certainty: Wales	Review of the delivery of the planning system in Wales ⁹ .	<ul style="list-style-type: none"> An Independent Advisory Group has been set up to review the current system in Wales and consider how best to deliver planning services in the future. Call for evidence closed February 2012. 	<ul style="list-style-type: none"> On-going programme of work. 	On-going

⁶ DECC (2013), EMR Capacity Market: <https://www.gov.uk/government/publications/electricity-market-reform-capacity-market-proposals>

⁷ DECC (2013), Press Release: <https://www.gov.uk/government/news/energy-bill-amendment-to-support-independent-renewable-generators>

⁸ DECC EMR CfD Market Readiness Working Groups: <https://www.gov.uk/government/policy-advisory-groups/electricity-market-reform-emr-cfd-market-readiness-working-groups>

⁹ Welsh Government, Welsh Planning Review: <http://wales.gov.uk/topics/planning/planningresearch/planningreview/?lang=en>

Barrier to Deployment	Action	Key Activities Achieved	Key Activities to be completed	Timing
Facilitating access to electricity distribution network	RIIO-ED1 electricity distribution price control Period 2015 to 2023 ¹⁰ .	<ul style="list-style-type: none"> DECC has informed the development of Ofgem's Price Control strategy published in March 2013 and provided projections on the possible range of renewable energy deployment to 2030. Distribution Network Operators (DNOs) have used the data submitted by DECC on renewable uptake projections and a model developed under the direction of the Smart Grid Forum to develop their business plan proposals which were submitted to Ofgem in July 2013. 	<ul style="list-style-type: none"> Ofgem will be publishing its assessment of the Business Plans. 	November 2013
	Smart Grid Forum ¹¹ .			
	'Project TransmiT' Transmission Charging Review ¹² .	<ul style="list-style-type: none"> Ofgem preferred approach and impact assessment consultation published August 2013. The preferred approach includes an element of network sharing in the generator's network charge to more accurately reflect the burden a generator's connection puts on the network. 	<ul style="list-style-type: none"> Implementation of changes to the Transmission Charging regime. 	From April 2014
Facilitating access to the grid: Scotland	Scottish transmission networks ¹³ - Transmission Investment for Renewable Generation (TIRG).	<ul style="list-style-type: none"> Beaully-Fort Augustus section of the Beaully-Denny upgrade completed. Work on the Fort Augustus - Tummel Bridge section is now well under way. Contracts and Consents for the West Coast subsea High Voltage Direct Current link (HVDC) are now in place. 	<ul style="list-style-type: none"> The transfer capacity over the Cheviot boundary is expected to increase to 3.3 GW. 	Early 2014
	Understand and address constraints on the distribution network.	<ul style="list-style-type: none"> Community Energy Grid Networks Working Group instituted to identify and fund pilot projects to maximise utilisation of the current network. 18 projects to date. 	<ul style="list-style-type: none"> Currently working up a number of pipeline projects for approval before the end of 2013. 	Projects will have until March 2015 to complete.

¹⁰ Ofgem, RIIO-ED1 Price Control: <https://www.ofgem.gov.uk/network-regulation-%E2%80%93-riio-model/riio-ed1-price-control>

¹¹ Ofgem, DECC and Ofgem Smart Grid Forum: <https://www.ofgem.gov.uk/electricity/distribution-networks/forums-seminars-and-working-groups/decc-and-ofgem-smart-grid-forum>

¹² Ofgem, Project TransmiT: <https://www.ofgem.gov.uk/electricity/transmission-networks/charging/project-transmit>

¹³ Ofgem, Transmission Investment for Renewable Generation: <https://www.ofgem.gov.uk/electricity/transmission-networks/critical-investments/transmission-investment-renewable-generation>

Barrier to Deployment	Action	Key Activities Achieved	Key Activities to be completed	Timing
Facilitating access to the grid: Wales	National Grid preferred route and substation location for mid-Wales infrastructure ¹⁴ .	<ul style="list-style-type: none"> On-going programme of work. National Grid has announced its preferred route and substation location for mid Wales infrastructure. National Grid has published its first informal consultation on 3 October 2012 outlining strategic options. 	<ul style="list-style-type: none"> Work will take place on environmental studies with negotiations with land owners, prior to applications to Public Inquiry and Powys County Councils. 	On-going Expected in late 2013 early 2014.
	Understand and address issues and constraints on the distribution network.	<ul style="list-style-type: none"> The Welsh Government is continuing to work closely with National Grid and DNOs and other stakeholders to understand and address constraints on the distribution network as well as to explore issues relating to resilience and future capacity and connectivity. 	<ul style="list-style-type: none"> On-going programme of work. 	On-going
Addressing barriers to growing the renewable energy sector in Wales	The Energy Wales programme ¹⁵ to overcome barriers to growth of the sector in Wales, with a view to maximising benefits to the Welsh economy and communities.	Cross-cutting priorities for the programme including: <ul style="list-style-type: none"> Improving the planning and consenting regime. Maximising the value from energy projects. Support to Welsh businesses to compete for energy contracts. Workforce development to meet industry's needs. Ensuring community access to advice, expertise and funding to harness renewable energy. Positioning Wales at the forefront of innovation, research and development in marine energy. 	<ul style="list-style-type: none"> On-going programme of work. 	On-going

¹⁴ National Grid, Mid Wales Connection Project: <http://www.nationalgrid.com/uk/Electricity/MajorProjects/MidWalesConnection/>

¹⁵ Welsh Government (2013), Energy Wales: A low carbon transition: <http://wales.gov.uk/topics/environmentcountryside/energy/energywales/?lang=en>

Barrier to Deployment	Action	Key Activities Achieved	Key Activities to be completed	Timing
Community Renewables: Scotland	The Scottish Government's 2020 Routemap for Renewable Energy target of 500 MW of community and locally owned renewables by 2020.	<ul style="list-style-type: none"> 204 MW of community and locally owned renewable energy capacity was estimated to be operational by the end of June 2012. 	<ul style="list-style-type: none"> Next update due spring 2014. 	Annual update.
	The Community and Renewable Energy Scheme (CARES) ¹⁶ .	<ul style="list-style-type: none"> Scottish Government to provide finance at the high risk pre-planning stage, with a budget of £28.5 million over the current spending review period. 	<ul style="list-style-type: none"> Programme remains on-going. 	On-going
Community Renewables: Wales	The Ynni'r Fro Programme ¹⁷ .	<ul style="list-style-type: none"> On-going programme that continues to provide advice, preparatory grants and capital support to community groups looking to set up their own social enterprises to generate energy. 	<ul style="list-style-type: none"> Programme remains on-going. 	On-going
Overcome radar interference with onshore and offshore windfarms	Develop a technical mitigation solution for military Air Traffic Control radars.	<ul style="list-style-type: none"> Ministry of Defence (MOD) demonstration programme conducted to assess technical maturity of mitigation solutions. 	<ul style="list-style-type: none"> MOD to report on technical maturity and consider next steps. 	December 2013
	Establish a radar upgrade programme for National Air Traffic Services (NATS) En-route radars.	<ul style="list-style-type: none"> Project Radar Modification business case agreed by NATS. 	<ul style="list-style-type: none"> NATS to agree funding arrangements with wind industry. NATS to commence roll-out programme at key sites. 	December 2013 Early 2014

¹⁶ Scottish Government, Community and Renewable Energy Scheme: <http://www.scotland.gov.uk/Topics/Business-Industry/Energy/Energy-sources/19185/Communities/CRES>

¹⁷ Welsh Government, Ynni'r Fro Programme: <http://wales.gov.uk/topics/environmentcountryside/energy/renewable/communitygeneration/?lang=en>

Barrier to Deployment	Action	Key Activities Achieved	Key Activities to be completed	Timing
Innovation to reduce costs in the offshore wind and marine sectors	Deliver a coordinated portfolio of investment in offshore wind and marine innovation.	<ul style="list-style-type: none"> Offshore Renewable Energy catapult centre¹⁸ established. Further development of facilities at the National Renewable Energy Centre¹⁹. Establishment of Marine Energy Array Demonstrator (MEAD)²⁰ and Marine Renewables Commercialisation Fund (MRCF)²¹ schemes. Establishment of the Offshore Wind Programme Delivery Board²². 	<ul style="list-style-type: none"> Programme remains on-going (including Supergen Wind Programme, Energy Technologies Institute's Offshore Wind Programme and the Scottish Government's Renewable Energy Investment Fund). 	Programme life 2011/2015.

Biomass Electricity

Action	Key Activities Achieved	Key Activities to be completed	Timing
Introduce Biomass Sustainability Standards	<ul style="list-style-type: none"> Government response to 2012 consultation on proposals to enhance the sustainability criteria for the use of biomass feedstocks under the Renewables Obligation (RO)²³ published August 2013. Changes to the sustainability criteria include Green House Gas trajectories, sustainable forest management controls and an independent audit requirement. 	<ul style="list-style-type: none"> Implementation of Sustainability Criteria into the RO. 	March 2014 subject to Parliament.

Onshore Wind

Action	Key Activities Achieved	Key Activities to be completed	Timing
Scottish Government support to local authorities for wind projects ²⁴	<ul style="list-style-type: none"> The Scottish Government has made £725,000 available to support 17 bids from planning authorities for assistance in dealing with wind turbine applications. 	<ul style="list-style-type: none"> Review impact of funds. 	Winter 2013

¹⁸ Offshore Renewable Energy Catapult: <https://ore.catapult.org.uk/>

¹⁹ National Renewable Energy Centre: <http://www.narec.co.uk/>

²⁰ DECC (2012), announcement Marine Energy Array Demonstrator: <https://www.gov.uk/government/news/20million-marine-scheme-now-open>

²¹ Carbon Trust, Marine Renewable Commercialisation Fund: <http://www.carbontrust.com/client-services/technology/innovation/marine-renewables-commercialisation-fund>

²² Crown Estate, Offshore Wind Programme Board: <http://www.thecrownestate.co.uk/energy-infrastructure/offshore-wind-energy/working-with-us/offshore-wind-programme-board/>

²³ DECC (2013), Government Response to the consultation on proposals to enhance the sustainability criteria for the use of biomass feedstocks under the RO: <https://www.gov.uk/government/consultations/ensuring-biomass-affordability-and-value-for-money-under-the-renewables-obligation>

²⁴ The Scottish Government, Additional Resources for Planning Authorities: <http://www.scotland.gov.uk/Topics/Built-Environment/planning/National-Planning-Policy/themes/renewables/windresources>

Offshore Wind

Action	Key Activities Achieved	Key Activities to be completed	Timing
Offshore Wind Cost Reduction	<ul style="list-style-type: none"> The Offshore Wind Programme Board²⁵ (OWPB) is taking forward the recommendations made by the Offshore Wind Cost Reduction Task Force²⁶. OWPB board has met 3 times in 2013. OWPB have established a number of workstreams focussing on areas with highest cost reduction potential. 	<ul style="list-style-type: none"> Annual report to be published detailing achievement and progress to date. 	January 2014
Development of domestic manufacturing supply chain	<ul style="list-style-type: none"> The Offshore Wind Industrial Strategy²⁷ (OWIS), published on 1 August 2013, set out a joint Government and industry strategy to build a competitive and innovative UK supply chain that delivers and sustains jobs, exports and economic benefits for the UK. 	<ul style="list-style-type: none"> The Government will publish a progress report on the strategy. 	March 2014
Development of port and manufacturing supply chain: Scotland	<ul style="list-style-type: none"> £4.3 million of support from National Renewables Infrastructure Fund for the Hunterston test centre²⁸, which is also benefiting from £15 million investment from SSE. 	<ul style="list-style-type: none"> The Scottish Government and its agencies continue to work with inward investors and the supply chain to develop opportunities in the offshore wind sector through initiatives such as £70 million National Renewables Infrastructure Fund and £35 million POWERS²⁹ fund. 	On-going
Offshore Wind Manufacturing Fund ³⁰	<ul style="list-style-type: none"> Revised scheme launched in August 2013 with closing date for applications in October 2013. 	<ul style="list-style-type: none"> Assessment of bids and issue of grant letters to eligible projects. 	April 2014

²⁵ Crown Estate, Offshore Wind Programme Board: <http://www.thecrownestate.co.uk/energy-infrastructure/offshore-wind-energy/working-with-us/offshore-wind-programme-board/>

²⁶ Government Offshore Wind Cost Reduction Task Force: <https://www.gov.uk/government/policy-advisory-groups/offshore-wind-cost-reduction-task-force>

²⁷ BIS & DECC (2013), Offshore Wind Industrial Strategy: <https://www.gov.uk/government/publications/offshore-wind-industrial-strategy-business-and-government-action>

²⁸ Scottish Enterprise (2013), Press Release: <http://www.scottish-enterprise.com/news/2013/03/opportunity-for-offshore-turbine-testing-at-hunterston.aspx>

²⁹ Prototype Offshore Wind Energy Renewables Support (POWERS) Fund: <http://www.scottish-enterprise.com/your-sector/energy/energy-how-we-can-help/energy-funding/powers.aspx>

³⁰ DECC Offshore wind, see Business Development and Funding Guidance: <https://www.gov.uk/offshore-wind-part-of-the-uks-energy-mix>

Action	Key Activities Achieved	Key Activities to be completed	Timing
Scottish Government Review of the findings of the Planning and Consenting Task Force	<ul style="list-style-type: none"> Taskforce findings published February 2012³¹. Marine Scotland has taken further steps towards delivering a simplified licensing system as a result of the eight recommendations highlighted in the report. 	<ul style="list-style-type: none"> Complete review of the Taskforce recommendations and publish outcomes. This aims to ensure that work undertaken will be transparent, efficient and proportional. 	On-going
Introduce guidance in relation to oil and gas clause in offshore windfarm leases	<ul style="list-style-type: none"> DECC has consulted stakeholders. 	<ul style="list-style-type: none"> Guidance to be published. 	To be confirmed.
Offshore Renewables Joint Industry Programme (ORJIP) to de-risk consenting of offshore renewables	<ul style="list-style-type: none"> Industry and Government committed in principle to fund ORJIP priority projects. Inaugural ORJIP Technical Working Group meeting held August 2013. Invitation To Tender for Project 1 'Bird avoidance behaviour and collision impact monitoring at offshore wind farms published in October 2013. Phase 1 of Project 4 'Use of deterrent devices and improvements to standard mitigation measures during piling' study and report completed and published October 2013³². 	<ul style="list-style-type: none"> ORJIP to take forward priority research and development projects as identified by industry. Publish results of Project 1. 	On-going Interim results expected during 2014.
Implementing recommendations from the Habitats and Wild Birds Directives Implementation Review	<ul style="list-style-type: none"> Defra report on progress published June 2013³³. The Major Infrastructure and Environment Unit facilitated agreement of the first Habitats Directive evidence plan for an offshore wind development³⁴. 	<ul style="list-style-type: none"> On-going work of the Major Infrastructure and Environment Unit and the Marine Evidence Group. 	On-going

³¹ Scottish Government (2012), Short Life Task Force on Streamlining Energy Development Licensing and Consents: <http://www.scotland.gov.uk/Topics/Business-Industry/Energy/Energy-sources/19185/OffshoreTFReport>

³² Carbon Trust, ORJIP Webpage: www.carbontrust.com/orjip

³³ Defra (2013), Progress of the Habitats Directive Implementation Review: <https://www.gov.uk/government/publications/progress-of-the-habitats-directive-implementation-review>

³⁴ Vattenfall and Scottish Power, *East Anglia THREE and East Anglia FOUR Offshore Windfarms Evidence Plan*: http://infrastructure.planningportal.gov.uk/wp-content/ipc/uploads/projects/EN010056/1.%20Pre-Submission/EIA/Habitat%20Regulations/MIEU%20Evidence%20Plan_East%20Anglia%20Three%20and%20Four%20Offshore%20Windfarms.pdf

Action	Key Activities Achieved	Key Activities to be completed	Timing
Developing a coping strategy to deal with scientific uncertainty for consenting decisions that need to be taken before the evidence base is improved	<ul style="list-style-type: none"> Defra guidance on application of Article 6(4) of the Habitats Directive³⁵ published December 2012. 	<ul style="list-style-type: none"> On-going stakeholder engagement to identify cross-cutting, strategic issues and appetite for collectively exploring solutions. 	December 2013
	<ul style="list-style-type: none"> Defra commissioned report by MacArthur Green and associated stakeholder workshop on potential mitigation and compensation measures for seabirds. 	<ul style="list-style-type: none"> Publish final MacArthur Green report. 	To be confirmed.
Cost-effective and timely offshore network development	<ul style="list-style-type: none"> The offshore transmission clause concerning the commissioning of transmission assets introduced to Parliament as part of the Energy Bill. Ofgem published consultation on Integrated Transmission Planning and Regulation project³⁶. Ofgem published policy statement setting out proposed framework to enable coordination of offshore transmission³⁷. Ofgem's enduring tender regulations came into force February 2013. 	<ul style="list-style-type: none"> The offshore transmission clause to achieve Royal Assent as part of the Energy Bill. Implementation of the Offshore Transmission Coordination Project (OTCP). 	<p>Expected by end 2013, subject to Parliament.</p> <p>See OTCP implementation update³⁸.</p>

³⁵ Defra (2012), Habitats and Wild Birds Directives: guidance on the application of Article 6(4): <https://www.gov.uk/government/publications/habitats-and-wild-birds-directives-guidance-on-the-application-of-article-6-4>

³⁶ Ofgem Consultation, Integrated Transmission Links Planning and Regulation: <https://www.ofgem.gov.uk/publications-and-updates/integrated-transmission-planning-and-regulation-project-emerging-thinking>

³⁷ Ofgem, Coordination policy: <https://www.ofgem.gov.uk/electricity/transmission-networks/offshore-transmission/offshore-transmission-policy-design/coordination-policy>

³⁸ DECC/Ofgem (2013), OTCP implementation update: https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/205339/OTCP_measures_annual_update_of_implementation_progress.pdf

Marine

Action	Key Activities Achieved	Key Activities to be completed	Timing
Manage the risk and costs of research and development	<ul style="list-style-type: none"> Technology Innovation Needs Assessments (TINAs) published³⁹. 	<ul style="list-style-type: none"> The Low Carbon Innovation Coordination Group is now developing a strategy for a number of technologies, including marine energy. This strategy will highlight the key priority areas that need to be addressed through innovation. The marine sector is being consulted in the development of the strategy. 	On-going
		<ul style="list-style-type: none"> The Welsh Government continues to instigate and facilitate industry access to research and development and investment funding as well as building supply chain capacity. 	On-going
Secure the investment for commercial deployment	<ul style="list-style-type: none"> The Marine Energy Programme Board (MEPB) EMR group provided evidence⁴⁰ as part of the EMR call for evidence to help inform the price setting for the first delivery plan. 	<ul style="list-style-type: none"> The Government is continuing to encourage the involvement of the finance sector in marine energy through MEPB. 	On-going

Solar PV

Action	Key Activities Achieved	Key Activities to be completed	Timing
DECC to produce a solar PV strategy	<ul style="list-style-type: none"> Solar PV Strategy Roadmap published 8 October 2013⁴¹. Cost Reduction Task Force & working group established in early 2013. 	<ul style="list-style-type: none"> Publication of the Solar PV Strategy. Conduct analysis into the following: <ul style="list-style-type: none"> Cost reduction; Embedded Carbon; Distribution of deployment sites; Grid systems balancing. 	Spring 2014
Access to Feed In Tariffs data beyond that required by FITs Order	<ul style="list-style-type: none"> Generation data collection conducted summer 2013. All data received, DECC carrying out initial quality checks. 	<ul style="list-style-type: none"> Data analysis exercise - DECC to issue 'Invitation To Tender', data analysis and publish final report. 	December 2013

³⁹ Carbon Trust (2012), TINA Marina Energy Summary Report: <http://www.carbontrust.com/our-clients/m/marine-energy-tina>

⁴⁰ Government Marine Energy Programme Board, EMR Minutes: <https://www.gov.uk/government/policy-advisory-groups/marine-energy-programme-board>

⁴¹ DECC (2013), UK Solar PV Strategy Part 1: <https://www.gov.uk/government/publications/uk-solar-pv-strategy-part-1-roadmap-to-a-brighter-future>

Renewable Heat

Action	Key Activities Achieved	Key Activities to be completed	Timing
Renewable Heat Incentive (RHI) improvements to Preliminary Accreditation Consultation	<ul style="list-style-type: none"> • Consultation response to “Providing certainty, improving performance” consultation⁴² issued February 2013. Confirmed that DECC was not able to implement a tariff guarantee at that time but would monitor deployment in light of the introduction of degression and other planned improvements to the scheme and committed to continue to work on measures to improve certainty. • Industry engagement on certainty in the non-domestic RHI has taken place during summer and early autumn 2013. 	<ul style="list-style-type: none"> • Government to announce way forward later in the autumn. 	Autumn 2013
Domestic Renewable Heat Incentive Scheme	<ul style="list-style-type: none"> • Policy document and Government Response to the domestic RHI consultation published July 2013 setting out details of the scheme including eligible technologies and applicants, tariff payments and other qualifying criteria⁴³. 	<ul style="list-style-type: none"> • Scheme to open for applications. 	Spring 2014, subject to Parliament and State Aid approval.
Microgeneration Certification Scheme (MCS) (heat pumps) ⁴⁴	<ul style="list-style-type: none"> • Consultation on new competence criteria for installers of small scale renewable technologies concluded by MCS. New installation standards introduced to strengthen consumer protection and quality assurance measures. 	<ul style="list-style-type: none"> • Publication of new competence criteria. • Installation standards remain under review. 	Early 2014
Review of Permitted Development Rights (PDR) for air source heat pumps	<ul style="list-style-type: none"> • 1st Review completed by DCLG. • Review of how PDR for air source heat pumps has worked in practice and consideration of where improvements could be made and the extension of PDR to the non-domestic sector. 	<ul style="list-style-type: none"> • Report expected to be published. • 2nd Review to be conducted. 	2nd review due to start December 2013.
Renewable Heat Premium Payment Metering Programme	<ul style="list-style-type: none"> • Data collection methodology agreed. • Up to 700 sets of meters installed on heat pumps. 	<ul style="list-style-type: none"> • Data verification and analysis software to be finalised. • Data collection period to be extended until October 2014. • Preliminary findings. • Full report. 	Autumn 2013/Summer 2014 Autumn 2014 To be confirmed. To be confirmed.

⁴² DECC (2013), RHI Consultation ‘providing certainty and improving performance’: <https://www.gov.uk/government/consultations/renewable-heat-incentive-providing-certainty-and-improving-performance>

⁴³ DECC (2013), Government Response to proposals for a domestic scheme:

https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/212090/Government_Response_September_Consultation_on_Proposals_for_a_Domestic_.pdf

⁴⁴ MCS, Technical Competence Criteria Update: <http://www.microgenerationcertification.org/about-us/news-and-events/73-mcs-technical-competence-criteria-update>

Action	Key Activities Achieved	Key Activities to be completed	Timing
Scotland Heat Mapping Programme ⁴⁵	<ul style="list-style-type: none"> Draft heat map manual and guidance to local authorities issued April 2013. 	<ul style="list-style-type: none"> Scotland heat map (GIS dataset), which will be offered to all Scottish local authorities. Web version of the heat map. 	Spring 2014
DECC National Heat Map (England only) ⁴⁶	<ul style="list-style-type: none"> Heat map launched 2012. 	<ul style="list-style-type: none"> Enhancements to national heat map commissioned. 	Spring 2014
Wood Fuel Strategy Implementation Plan	<ul style="list-style-type: none"> On-going programme of work fully established⁴⁷. 	<ul style="list-style-type: none"> Programme duration 2011/2014. 	On-going
Biomass Sustainability Criteria in Renewable Heat Incentive	<ul style="list-style-type: none"> Consultation took place in 2012⁴⁸. 	<ul style="list-style-type: none"> DECC to bring in mandatory compliance with biomass sustainability criteria as a condition of domestic and non-domestic RHI support. 	Spring 2014, subject to Parliament.
Air quality criteria in the Non-Domestic Renewable Heat Incentive	<ul style="list-style-type: none"> Air quality regulations were brought in force September 2013⁴⁹. 	<ul style="list-style-type: none"> Amendment to legislation required to correct an error that has been identified in these regulations relating to certain standards to be applied to all biomass boilers and combined heat and power units. 	December 2013, subject to Parliament.
Non-Domestic Renewable Heat Incentive: review of eligible technologies and tariffs	<ul style="list-style-type: none"> Review consultation completed⁵⁰. 	<ul style="list-style-type: none"> Government Response document to specify technology & tariff decisions. Support to be introduced for new technologies and the introduction of revised tariffs for currently supported technologies. 	Autumn 2013 Spring 2014, subject to Parliament and State Aid approval.

⁴⁵ Scottish Government, Scotland's Heat Map: <http://www.scotland.gov.uk/Topics/Business-Industry/Energy/Energy-sources/19185/Heat/HeatMap>

⁴⁶ DECC, National Heat Map: <http://tools.decc.gov.uk/nationalheatmap/>

⁴⁷ Forestry Commission England (2011), Woodfuel Implementation Plan: <http://www.forestry.gov.uk/england-woodfuel>

⁴⁸ DECC (2013), RHI Consultation 'providing certainty and improving performance': <https://www.gov.uk/government/consultations/renewable-heat-incentive-providing-certainty-and-improving-performance>

⁴⁹ DECC (2013), The Renewable Heat Incentive Scheme (Amendment) (No. 2) Regulations 2013: http://www.legislation.gov.uk/uksi/2013/2410/pdfs/uksi_20132410_en.pdf

⁵⁰ DECC (2012), RHI Consultation 'expanding the non-domestic scheme': <https://www.gov.uk/government/consultations/renewable-heat-incentive-expanding-the-non-domestic-scheme>

Renewable Transport

Action	Key Activities Achieved	Key Activities to be completed	Timing
EU proposal to address indirect land use change (ILUC)	<ul style="list-style-type: none"> In October 2012, the European Commission published a proposal designed to address ILUC impacts through amendments to the Renewable Energy Directive and the Fuel Quality Directive⁵¹. 	<ul style="list-style-type: none"> The proposal is being agreed at European level through the ordinary legislative procedure. 	DfT are seeking a speedy resolution on this issue.
National Charge Point Registry for electric vehicles	<ul style="list-style-type: none"> The National Charge point Registry (NCR) is live and available online⁵². 'Driving the Future Today'⁵³ the Government's strategy for ultra low emission vehicles and related infrastructure in the UK was published in September 2013. 	<ul style="list-style-type: none"> Government have committed to develop the Registry further and allow greater flexibility and functionality. 	During 2014
Financial support for the purchase of ultra-low emission vehicles	<ul style="list-style-type: none"> Plug-in Car Grant and Plug-in Van Grant⁵⁴ launched to help reduce the cost differential between ULEVs and conventional vehicles. Incentives introduced for ULEVs through the tax system⁵⁵. 	<ul style="list-style-type: none"> Government committed to build sales momentum as new vehicles enter the market and costs continue to fall, providing a more diverse choice for consumers at different prices. Government commitment to maintain a strong, clear and lasting set of tax incentives for ULEVs until at least 2020. Office of Low Emission Vehicles will work with HMRC to clarify the tax position for ULEVs and publish this as a factsheet on the OLEV website. 	<p>On-going</p> <p>On-going</p> <p>By May 2014</p>
Development and commercialisation of hydrogen fuel cell powered electric vehicles	<ul style="list-style-type: none"> Publication of the UK H2 Mobility report⁵⁶ on hydrogen vehicles (25 April 2013). Launch of new UK H2 Mobility website to promote the potential of hydrogen fuel⁵⁷. 	<ul style="list-style-type: none"> Government is working with companies in the UK H2 mobility project to develop a business case for the roll-out of hydrogen fuel cell electric vehicles and the refuelling infrastructure in the UK. 	From 2015

⁵¹ European Commission, Biofuels - Land use change: http://ec.europa.eu/energy/renewables/biofuels/land_use_change_en.htm

⁵² Government National Charge Point Registry: <http://data.gov.uk/dataset/national-charge-point-registry>

⁵³ OLEV (2013), 'Driving the future today: a strategy for ultra low emission vehicles in the UK': <https://www.gov.uk/government/publications/driving-the-future-today-a-strategy-for-ultra-low-emission-vehicles-in-the-uk>

⁵⁴ Government 'Plug-in car and van grants': <https://www.gov.uk/plug-in-car-van-grants/overview>

⁵⁵ OLEV and DfT announcement, 'Government drives forward plug-in car revolution': <https://www.gov.uk/government/news/government-drives-forward-plug-in-car-revolution>

⁵⁶ Government (2013), 'UK H2Mobility: potential for hydrogen fuel cell electric vehicles - phase 1 results': <https://www.gov.uk/government/publications/uk-h2mobility-potential-for-hydrogen-fuel-cell-electric-vehicles-phase-1-results>

⁵⁷ UKH₂ (2013), Mobility: <http://www.ukh2mobility.co.uk/news-media/announcement/uk-h2mobility-launches-new-website-to-promote-the-potential-of-hydrogen-fuel/>

Action	Key Activities Achieved	Key Activities to be completed	Timing
<p>Research and development support for the new generation of ultra low emission vehicles and to help build the skills and knowledge in the UK</p>	<ul style="list-style-type: none"> • The Government is funding an £82m programme. • Funding is focussed on identifying and supporting emerging technologies that the UK can exploit and lead on globally. This includes innovations in electric machines and power electronics; energy storage and energy management; lightweight vehicles and powertrains; as well as improvements to the internal combustion engine. It specifically targets areas where commercial funding has not been readily available, or where the cost of full commercialisation of new technologies has been too high, in order to build value in the supply chain and create opportunities for the UK. 	<ul style="list-style-type: none"> • Research and development programme on-going. 	<p>On-going</p>

New Actions to Deliver Deployment

Technology/Sector	Action	Activities	Timing
Economic Growth-building UK supply chains	<p>Promote the supply chain The consultation on implementing EMR was published in October 2013⁵⁸ and proposed that generators with projects over 300 MW will need to demonstrate they have secured Government's approval to their supply chain plan when applying for CfD. A more detailed consultation on DECC's proposals will be published in November 2013 and will set out the criteria the plans will be assessed against and how each plan will be assessed.</p>	<ul style="list-style-type: none"> We expect the consultation will close on the same date as the main EMR implementation consultation – 24 December 2013. Responses will form the basis for updating implementation legislation. 	Summer 2014 subject to Parliament.
Distributed and Community Energy	Promote and support community-owned and community-led renewable projects.	<ul style="list-style-type: none"> Publish Community Energy Strategy. Complete review of policy and technical models relating to an integrated approach to demand reduction, demand response and decentralised energy (D3). Analyse the cost and benefit of implementing D3 in the UK energy market. 	Autumn 2013 April 2014
	Support for communities and renewable energy in Northern Ireland	<ul style="list-style-type: none"> Northern Ireland will consider the Community Energy Strategy along with the recommendations in the DECC response to the onshore wind call for evidence and those in the recently completed Northern Ireland study on Communities and Renewable Energy⁵⁹. Consultation on action to support communities and renewable energy. 	Mid 2014

⁵⁸ DECC (2013), EMR Consultation: <https://www.gov.uk/government/consultations/proposals-for-implementation-of-electricity-market-reform>

⁵⁹ DETINI (2013), Communities and Rural Energy report: http://www.detini.gov.uk/communities_and_renewable_energy.pdf

Technology/Sector	Action	Activities	Timing
Strengthening Engagement and Enhancing Local Benefits	National Planning Framework 3 The National Planning Framework 3 Main Issues Report and draft Scottish Planning Policy (SPP) issued for consultation by the Scottish Government on 30 April 2013. A follow up consultation on draft SPP: Sustainability and Planning issued on 28 October 2013 (closing date 16 December 2013).	<ul style="list-style-type: none"> The Scottish Government is to publish a revised SPP alongside the National Planning Framework. 	June 2014
Financial Incentives	DECC to take powers to double the capacity threshold from 5 MW to 10 MW for community power generation projects under the FITs scheme ⁶⁰ .	<ul style="list-style-type: none"> Government has laid an amendment to the Energy Bill to provide the enabling power. 	Expected by end 2013, subject to Parliament.
		<ul style="list-style-type: none"> DECC will consider the use of this enabling power following Royal Assent, and consult as appropriate. 	2014
	Enable developers of renewable energy projects to take final investment decisions, or other critical investment decisions directly impacting on the timing to commissioning the project, which would otherwise be delayed by the uncertainty caused by the transition to the enduring CfD regime.	<ul style="list-style-type: none"> Secretary of State enters into Investment Contracts (an early form of CfD) with successful applicants of the Final Investment Decision Enabling for Renewables process. 	March 2014
	Promote small scale generation in Northern Ireland.	<ul style="list-style-type: none"> Review Renewable Obligation Certificate levels for small scale onshore wind, hydro, solar PV and anaerobic digestion under the Northern Ireland Renewables Obligation (NIRO). 	2015
<ul style="list-style-type: none"> The NI FITs scheme is scheduled for introduction before the closure of NIRO to new generation. 		2017	

⁶⁰ DECC (2013), Press Release: <https://www.gov.uk/government/news/more-community-energy-projects-to-get-support-under-feed-in-tariffs>

Technology/Sector	Action	Activities	Timing
Biomass	Stakeholder roundtables to consider barriers to energy production from residual waste.	<ul style="list-style-type: none"> Roundtable event with local authority representatives. 	End 2013
		<ul style="list-style-type: none"> Government to consider outputs from roundtable meetings. 	End 2013
Onshore Wind	Improve community engagement and benefits.	<ul style="list-style-type: none"> Publish best practice guidance on community engagement and benefits. Develop a community benefit and engagement register. 	Spring 2014
	Improve public access to evidence on onshore wind.	<ul style="list-style-type: none"> Provide access to clear and reliable evidence on the impacts of onshore wind, through an evidence toolkit. 	Spring 2014
	Promoting the supply chain.	<ul style="list-style-type: none"> Government to work with industry to produce guidance for potential supply-chain business on how to access the opportunities provided by onshore wind developments. 	Early 2014
		<ul style="list-style-type: none"> DECC sponsored supply chain event. 	Early 2014
	Eskdalemuir Research and Policy Review.	<ul style="list-style-type: none"> 'Stage 1' Substantive research to re-examine the model used to implement safeguards in the consultation zone to be completed. 	January 2014
<ul style="list-style-type: none"> Policy review to be undertaken and outcomes published. 		April 2014	
Offshore/Onshore Wind	Evaluate a technical mitigation solution for military Air Traffic Control radars.	<ul style="list-style-type: none"> MOD to consider possible routes to implementation (subject to technical maturity). 	April 2014

Technology/Sector	Action	Activities	Timing
Offshore Wind	Implement the Offshore Wind Industrial Strategy (OWIS) ⁶¹ .	<ul style="list-style-type: none"> Key OWIS actions include:- <ul style="list-style-type: none"> A new Offshore Wind Investment Organisation, established by UKTI, to attract inward investment to the UK; £20 million from the Regional Growth Fund for GROW: Offshore Wind, a new Manufacturing Advisory Service programme to support the supply chain in England to become more competitive by offering tailored support from specialists; £46 million funding over five years for an Offshore Renewable Energy Catapult Centre to join up innovation between industry, Government and academia and enable innovative companies to bring their products to market; and Industry-led initiatives to share information with the supply chain about their procurement timelines and contracting decision points. 	On-going work programme.
Marine	Reassess deployment pipeline to 2020.	<ul style="list-style-type: none"> Carry out an analysis of project pipeline among Marine Energy Programme Board members to refine deployment projections to 2020. 	Autumn 2014
Renewable Heat	<p>2014 Review of non-domestic RHI Scheme Activity may be centred around three themes:</p> <ul style="list-style-type: none"> Simplifying the regulatory burden: looking for ways to streamline processes. Improving performance and efficiency: identifying measures that can be taken to measure and improve the performance of individual installations. Developing the market: assessing the case for inclusion of new technologies in the scheme. 	<ul style="list-style-type: none"> Evidence gathering work - including online message boards, industry workshops and commissioning of external research. 	To start by end 2013.
		<ul style="list-style-type: none"> Consultation (including some consultation events). 	Late spring 2014
		<ul style="list-style-type: none"> Implement legislative changes where required. 	End of 2015

⁶¹ Government (2013), announcement on investment in the offshore wind industry: <https://www.gov.uk/government/news/multi-million-pound-investment-in-offshore-wind-industry-to-unlock-billions-in-uk-economy>

Technology/Sector	Action	Activities	Timing
Renewable Heat	Understanding the determinants of heat and wider energy use in non-domestic buildings in order to design appropriate instruments for promoting renewable heat.	<ul style="list-style-type: none"> Research project is underway to update and enhance DECC's understanding of energy end use in non-domestic buildings as well as the potential for abatement. 	Final report due in March 2015.
	The Heat Networks Delivery Unit has been established alongside a £6 million funding stream to support local authorities to develop heat networks. In this context, the Unit is keen to support proposals for low carbon and renewable heat networks ⁶² .	<ul style="list-style-type: none"> The first bidding round for local authorities closes on 15 November 2013. There will be further funding rounds throughout 2014/15. 	November 2013
	Increasing understanding of variation in performance of non-domestic ground and water source heat pumps installed under RHI.	<ul style="list-style-type: none"> DECC has started a project to monitor a range of non-domestic RHI heat pumps to determine the variation in performance of different installations and to understand the causes of this variation. Project aims to recommend improvements to the industry guidelines on design and installation. 	Interim report September 2014. September 2015
Renewable Heat: Scotland	Heat Generation Policy Statement.	<ul style="list-style-type: none"> The Scottish Government published an Outline Heat Vision in January 2013⁶³, with a commitment to produce a Heat Generation Policy Statement (HGPS). Scottish Government to publish HGPS setting out scenarios for meeting its vision for a largely decarbonised heat sector by 2050. 	Consultation on draft HGPS in early 2014.

⁶² DECC 2013, Press Release: <https://www.gov.uk/government/news/6-million-funding-for-local-authority-heat-networks>

⁶³ Scottish Government (2013), Outline Heat Vision: <http://www.scotland.gov.uk/Topics/Business-Industry/Energy/Energy-sources/19185/Heat/DraftHeatDeployment>

Technology/Sector	Action	Activities	Timing
Renewable Heat: Scotland	District Heating Action Plan.	<ul style="list-style-type: none"> The Scottish Government published its District Heating Action Plan in June 2013⁶⁴. Heat network partnership webpage launched 23 October 2013⁶⁵. The website is to be developed to provide a hub for information, guidance and best practice on district heating. 	March 2014
		<ul style="list-style-type: none"> Scottish Government to set up Heat Network Partnership to bring together the Energy Saving Trust Scotland, Resource Efficient Scotland, Scottish Enterprise, SEGEC and the Scottish Futures Trust to provide coordinated support for district heating. HNP to provide support to district heating projects in development in Scotland to support implementation. 	On-going
Renewable Heat: Northern Ireland	Develop the renewable heat market.	<ul style="list-style-type: none"> DETI to implement a domestic RHI and new tariffs for the non-domestic sector. 	2014
Transport	Realising the potential of advanced biofuels and other low carbon fuels.	<ul style="list-style-type: none"> £25 million of capital funding over 3 years from 2015, to enable the construction of demonstration-scale waste to fuel and other advanced biofuel plants in the UK⁶⁶. 	2015/2018
		<ul style="list-style-type: none"> DfT to issue further details of how the programme will be administered. DfT to launch a call for evidence seeking views on how to address barriers to the commercial viability of advanced biofuels and other emerging low-carbon fuels. 	Autumn 2013 End 2013

⁶⁴ Scottish Government (2013), District Heat Action Plan: <http://www.scotland.gov.uk/Publications/2013/06/7473>

⁶⁵ Heat Network Partnership: <http://www.districtheatingscotland.com/>

⁶⁶ DfT, Press Release: <https://www.gov.uk/government/news/25-million-for-advanced-biofuel-demonstration-projects>

Technology/Sector	Action	Activities	Timing
Transport: Scotland	The Scottish Government launched 'Switched On Scotland: A Roadmap to Widespread Adoption of Plug-in Vehicles' in September 2013 ⁶⁷ , which sets out a vision for Scotland's electric vehicle (EV) future.	<ul style="list-style-type: none"> A suite of 37 actions flowing from the Roadmap for the Scottish Government and its partners to take forward. These are grouped into 5 cross-cutting themes: public sector leadership; making strategic investments; promoting incentives; mobilising key stakeholders; outreach and education. 	Actions to be delivered 2013/2015. Implementation review scheduled for 2015.
Increasing Options for Generation	Address the funding gap for Scottish island renewables.	<ul style="list-style-type: none"> Publish response to the 'additional support for island renewables' consultation. Subject to consultation, publish island renewable strike price in EMR Delivery plan. 	December 2013
	Analysis of the grid access barrier for Scottish island renewables.	<ul style="list-style-type: none"> Report on progress of further work, to be carried out with the Scottish Government, looking into grid access issues. 	December 2013
	Confirm position and approach to implementation for renewable energy trading.	<ul style="list-style-type: none"> Working with Ofgem on final policy position for non-UK transmission assets. Continue programme of work with the Republic of Ireland to evaluate and overcome barriers to renewable energy trading, as set out in the January 2013 Memorandum of Understanding between Governments and the UK's June 2013 Response to Call for Evidence on Renewable Energy Trading. 	Early 2014

⁶⁷ Scottish Government (2013), Switched on Scotland: <http://www.transportscotland.gov.uk/files/Switched%20On%20Scotland%20.pdf>

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