



Renewable Energy Team (RET) – Review of Activities / Summary of Achievements – 2016

2016 has seen further progress across all areas as RET prepares Guernsey for local macro renewable energy (MRE). Where possible work has been completed but the medium / long term nature of MRE means that much of the work is completed over more than one year.

Summary of 2016 tasks and achievements – measured against key areas in RET’s 2016 published strategy

2016 Strategic Goals	Summary of 2016 progress
<p>Effective public engagement and communication aligned to a developed communications strategy – look to ensure that the people of Guernsey are engaged and well informed of the local position with regards to renewables.</p>	<p><i>RET continued to engage with the public to ensure informed and balanced debate by publishing findings and reports on its website as well as through the media.</i></p> <p><i>RET’s co-funded PhD into stakeholder engagement was finalized in 2016 with the PhD awarded in Early 2016 and the Thesis published in May 2016. As part of the ongoing engagement facilitated by the PhD RET were fully supportive of the provision of the PhD to those who had any involvement, and it is linked on the website.</i></p> <p><i>The completion of the PhD was followed by focus groups as part of “project windy isle” which further informed how RET can engage with the public.</i></p> <p><i>19th April RET held an open day following 4 weeks of poster/leaflet displays.</i></p> <p><i>RET have increased engagement with schools.</i></p> <p><i>An updated Communications Plan was drafted at the end of 2016 for consideration and “finalisation” in 2017.</i></p>
<p>Undertake the next stage of feasibility work for a 30MW offshore wind array in Guernsey waters , in conjunction with Guernsey Electricity Ltd, so that an informed decision on how to progress can be made – by end 2016</p>	<p><i>“Project Windy Isle” was completed in May 2016 which identified that a project could be viable with a LCOE of around £90-£170/MWh depending on cost of capital and location. In addition it identified a number of next steps which have had some progress made.</i></p>
<p>Facilitate Guernsey obtaining control of the seabed and extension of territorial seas to 12 nautical miles - Policy Letter by end of 2016.</p>	<p><i>This key piece of work was both progressed and stalled in 2016. Progress was made through the initial drafting of the Policy Letter to make case for seabed ownership was due to go to this States, led by RET Officers.</i></p> <p><i>However, 2 issues have further delayed progress in this area – firstly the fisheries legislation was challenged by the UK Government, causing the issue to slip further down External relations priorities; the impact of Brexit has an unknown impact, but could lead to further delays.</i></p> <p><i>RET are continuing to attempt to drive this forward in 2017.</i></p>



<p>Continued development of a programme for solar projects at States' sites such that the electricity generation will generate a cost saving for the SoG</p>	<p><i>In March 2016 RET submitted a proposal to the States Capital Investment Prioritisation (SCIP) process, looking to develop small scale solar on States buildings across the states property portfolio. NO further work on the Strategic Outline Programme was undertaken until the outcome of the SCIP process was known.</i></p> <p><i>The SCIP decision was due in November 2016; however it has been delayed until June 2017. RET officers met with P&R SCIP officers in November 2016 and it was concluded highlight UNLIKELY that funding would be provided for the project, but that in principle support for a project on States Properties would be LIKELY.</i></p> <p><i>RET have subsequently started to investigate 2 main potential options – a GEL project on States of Guernsey land/property & a private investment project to supply SoG buildings. This is continuing in 2017.</i></p>
<p>Lobby and direct overall States energy policy with specific regard to macro renewables (LT)</p>	<p><i>RET highlighted the need for a reworked energy policy to provide clarity over renewables (and other energy) to the Committee for the Environment and Infrastructure (E&I) through the introductory presentation. E&I are considering how this fits into the Policy and Resource Plan and the E&I plan for 2017-2020, and RET will facilitate any work as required.</i></p>
<p>Work closely with Guernsey Electricity Ltd. to ensure strategic and objective alignment where appropriate (LT)</p>	<p><i>RET and GEL completed "project windy isle" as a joint project, however further work is being progressed by RET independently at present.</i></p> <p><i>RET and GEL both have an interest in energy Storage and are working together on a Student project, which will feed into further work by GEL.</i></p>
<p>Develop the best mechanisms for Guernsey with regards to leasing of the seabed to a developer (which may include GEL) looking at potential returns, cost, risk and opportunities of supply of electricity to the island or for export – by end of 2016.</p>	<p><i>Project windy isle looked to further the work RET had already under taken with regards to seabed leasing, and it provided additional information including a review of drafting instructions. However it is necessary to have certainty over seabed ownership prior to develop the seabed lease.</i></p>
<p>Zone suitable areas for locating marine renewable devices to define what further data is likely to be required – looking to progress by end 2016</p>	<p><i>RET have continued to understand the potential options for developing renewables, with "windy isle" work outlining potentially viable development sites, however Formal zoning has not been undertaken. Zoning for renewables will form one part of a marine spatial plan if progressed by E&I.</i></p>
<p>Refine the understanding of the marine environment and renewable resources to a level of greater detail in order to accelerate generator deployment. (LT)</p>	<p><i>The wind resource continues to be monitored by RET owned equipment and modelled with other data. Following "project windy isle" work has progressed securing a LiDAR to monitor wind speeds at multiple heights at Chouet alongside the existing anemometer.</i></p> <p><i>Further work on understanding the tidal resource has been undertaken both by RET and through University studies.</i></p> <p><i>Feasibility project into offshore wind (Project Windy Isle) was completed (see above).</i></p>



	<i>Wave understanding has not been advanced; working with other sections in E&I MAY offer opportunities.</i>
Ensure that this information is useful to direct a developer and to provide realistic estimates of power output and generation profiles for Guernsey. (LT)	<i>Through windy isle the data required for development was clearly identified. RET are working to ensure all information collected is beneficial for a development.</i>
Understand the wider socio-economic value of renewables to Guernsey (LT)	<i>This was considered as part of Windy Isle, and will be considered in all projects going forward.</i>
Work with the other Channel Islands and wider international governments to progress renewables including work with the UK (through DECC) and French governments. (LT)	<i>Channel Island Marine Energy Group (CIMREG), being a CI wide group at political and officer level (including the IOM), to progress MRE continued with Guernsey RET members key in driving CIMREG forward with meetings held in Guernsey and chaired by C&E's Policy Advisor. CIMREG officer meetings took place in 2016 and CIMREG was used as a continued conduit for conversations with ONEM. CIMREG reviewed and agreed the importance of continuing the Framework for Cooperation with France's ONEM. CIMREG produced a paper outlining where we are and how we can look to work together in the future. CIMREG continue to have a relationship (primarily through RET) with SWMEP, however as the organisation has no funding it has stalled somewhat in 2016. RET members attended Guernsey / La Manche meeting in Guernsey. RET have continued to engage with BIC through the offshore energy and grid group. Discussions around access to subsidies are on hold until 2018 when offshore CfD's will be considered. RET Officers are involved with Brexit discussions through the BIC Energy group. RET continues to work very closely with all CIs.</i>
Explore the potential for a renewables research/development base.	<i>Continued engagement and projects with various Universities in UK and France (tidal, storage and offshore wind projects), but it is recognised that a research base is unlikely to be viable in the short to medium term.</i>
Encourage and support other renewable projects both within and without the States of Guernsey	<i>Continued proportional engagement with local stakeholders. Meetings with PV suppliers, wave developers, local surveys and media. As part of the waste strategy renewables have been considered on the proposed waste management facility. RET provided input to this.</i>