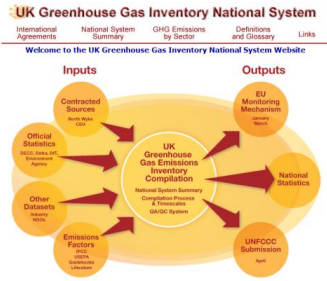
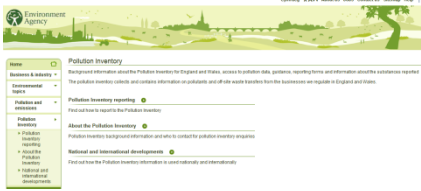



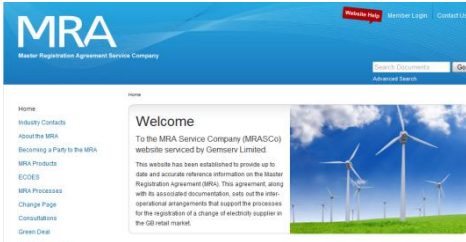
## Databases and Toolkits

### Introduction

This handout provides an overview of databases and tools that can be used to prepare baseline information, trend analysis and evaluation of energy and greenhouse gas emissions for local authority areas. The handout provides a brief overview of some useful sources and links on a wide range of energy and emissions matters to provide a broader understanding of the energy industry, energy consumption, evaluation of projects, developing and implementing plans and policies.

### Energy and Emissions Databases

Title	Description
<p><b>National Atmospheric Emissions Inventory</b></p> <p><a href="http://ghgi.decc.gov.uk/">http://ghgi.decc.gov.uk/</a></p>	<p>The UK Government's Greenhouse Gas Inventory is the means by which the UK's progress towards achieving these targets and is assessed by international bodies, as well as providing the formal reporting system for EU and UN reporting requirements. The UK Greenhouse Gas Inventory is developed and maintained by AEA. The Greenhouse Gas (GHG) inventory provides an independent estimate of the UK's GHG emissions for reporting to the UNFCCC, and is updated annually.</p> 
<p>The National Atmospheric Emissions Inventory is a comprehensive information source that can be used to prepare GHG baselines and used to undertake exercises such as heat mapping as the data provides more detailed spatial analysis of heat load that using energy consumption data.</p>	
<p><b>Environment Agency Pollution Inventory</b></p> <p><a href="http://www.environment-agency.gov.uk/business/topics/pollution/32254.aspx">http://www.environment-agency.gov.uk/business/topics/pollution/32254.aspx</a></p>	<p>The Pollution Inventory (PI) provides information about the releases and transfers of substances from the industrial activities that the Environment Agency regulates. Its main objectives are to provide the public with easy access to environmental information from industrial activities in their locality, protect the environment by providing information to assist in policy development and support Government to meet its national and international environmental reporting commitments, such as the Kyoto protocol on climate change.</p> 
<p>Environment Agency Pollution Inventory provides local authorities and planners with GHG and environmental data on industrial uses.</p>	

Title	Description
<p><b>Ofgem Renewables and CHP Register</b></p> <p><a href="https://www.renewablesandchp.ofgem.gov.uk/">https://www.renewablesandchp.ofgem.gov.uk/</a></p>	<p>The system allows users to gain accreditation for Renewables Obligations (RO), Feed in Tariffs (FiT), Climate Change Levy (CCL) exemption for Renewables and Renewable Energy Guarantees of Origin (REGO); Receive Renewable Obligation Certificates (ROCs), CHP Levy Exemption Certificates (LECs), Renewable LECs &amp; REGOs certificates; manage output details; Submit annual declarations; Transfer ROCs, CHP LECs, Renewable LECs &amp; REGOs certificates; manage compliance; and access reports.</p> 
<p>The Ofgem Renewables and CHP Register provides a powerful reporting tool for local authorities seeking to monitor the number of renewable and CHP schemes installed in their area. This include microgeneration that is subject to permitted development rights to provide a comprehensive picture of how installed renewable and low carbon capacity and compare this against the number of planning applications contented for such schemes.</p>	
<p><b>Gemserv ECOES database</b></p> <p><a href="http://www.mrasco.com/ecoec">http://www.mrasco.com/ecoec</a></p>	<p>(the Electricity Central Online Enquiry Service – <a href="http://www.ecoes.co.uk">www.ecoes.co.uk</a>) is funded by electricity suppliers and distributors and governed under the Master Registration Agreement (MRA). ECOES was designed to assist suppliers in the customer transfer process by allowing the triangulation of data; it is also used to provide benefit to MRA parties in other key areas.</p> 
<p>The Gem Serve ECOEs database provides a useful resource and access point for local authorities seeking to engage with licensed electricity distribution and supply businesses and work toward improved metering of electricity consumption.</p>	

## Planning, Energy and Emissions Tools

Title	Description
<p><b>Change over Time Analysis (CoTA) Viewer</b></p> <p><a href="http://www.decc.gov.uk/en/content/cms/statistics/energy_stats/regional/analytical/analytical.aspx">http://www.decc.gov.uk/en/content/cms/statistics/energy_stats/regional/analytical/analytical.aspx</a></p>	<p>The Change over Time Analysis (CoTA) Viewer is a visual tool with accompanying Excel worksheets, which assists the analysis of change over time for small areas. In this version, electricity and gas data from 2005 to 2009 are used to analyse change at Middle – Layer Super Output Area in England and Wales.</p>
<p><b>Sub National energy consumption analytical tool</b></p> <p><a href="http://www.decc.gov.uk/en/content/cms/statistics/energy_stats/regional/analytical/analytical.aspx">http://www.decc.gov.uk/en/content/cms/statistics/energy_stats/regional/analytical/analytical.aspx</a></p>	<p>The Sub National energy consumption analytical tool enables local authorities and other regional bodies in Great Britain to track changes in both gas and electricity consumption at local authority level over the time period 2005 to 2009. The tool also allows comparisons to be made between local authorities, and a ranking option shows a wider range of comparison metrics.</p>
<p>The CoTA Viewer and Energy Consumption Analytical Tool provide planners with useful tools for quickly creating baseline information to inform the development of strategic energy policies in Core Strategy or Energy Specific DPD. By monitoring the change analysis data planners use the data to understand the impact that new development is and / or could have on local authority areas energy consumption over time.</p>	
<p><b>DECC Carbon Valuation Tool</b></p> <p><a href="http://www.decc.gov.uk/en/content/cms/about/ec_social_res/iag_guidance/iag_guidance.aspx">http://www.decc.gov.uk/en/content/cms/about/ec_social_res/iag_guidance/iag_guidance.aspx</a></p>	<p>The DECC/HMT guidance provides practical information about implementation of the revised Carbon valuation methodology for UK policy appraisal (July 2009). It also outlines the reporting requirements for compliance with carbon budgets and guidance on how to calculate the cost effectiveness of climate change policies. The tool includes a 'toolkit' that converts increases or decreases in energy consumption into changes in greenhouse gas emissions and values the changes in both emissions and energy use. The toolkit also contains the latest assumptions on carbon values, energy prices, long-run variable energy supply costs, emission factors and air-quality damage costs. The tool provides long term analysis functions and covers the period from 2008 up to 2100.</p>
<p>The DECC Carbon Valuation Tool provides economists and planners with robust tool for measuring the effectiveness of energy policy interventions / schemes and can be used to support the baseline information produced CoTA Viewer and Energy Consumption Analytical Tool. This provides local authorities with a tool to understand their contribution to the wider UK drive towards reducing energy consumption and GHG emissions, increasing renewable and low carbon energy generation, energy security and implementing behavioral change.</p>	

Title	Description
<p><b>PlanLoCaL</b></p> <p><a href="http://www.planlocal.org.uk/">http://www.planlocal.org.uk/</a></p>	<p>PlanLoCaL is a suite of resources including films, a resource pack and this website which aims to support communities and groups that are 'planning for low carbon living'. The resource provides information and guidance on a wide range of community and planning matters.</p> 
<p><b>District Heating Good Practice: Learning from the Low Carbon Infrastructure Fund:</b></p> <p><a href="http://www.homesandcommunities.co.uk/district-heating-good-practice-learning-low-carbon-infrastructure-fund">http://www.homesandcommunities.co.uk/district-heating-good-practice-learning-low-carbon-infrastructure-fund</a></p>	<p>The HCA has produced a lessons learned report as part of the LCIF programme on how to link housing schemes to new and existing low carbon energy plants. The funding was focused on housing growth areas in England and bids were sought from local authorities (LAs). The fund had £26m to administer and allocated £21m to an initial tranche of 13 projects.</p> 
<p><b>Compare Renewable</b></p> <p><a href="http://www.idea.gov.uk/idk/core/page.do?pageId=23051802">http://www.idea.gov.uk/idk/core/page.do?pageId=23051802</a></p>	<p>This resource provides an overview of eight sustainable energy technologies to help you assess whether they are appropriate for your area.</p> 
<p><b>Combined Heat &amp; Power Association (CHPA) - The Knowledge Centre</b></p> <p><a href="http://www.chpa.co.uk/knowledge-centre_13.html">http://www.chpa.co.uk/knowledge-centre_13.html</a></p>	<p>This is intended to serve as a comprehensive resource for people who want to know more about CHP, district heating, energy services and energy issues more generally</p> 
<p>PlanLoCaL, The District Heating Good Practice, Compare Renewables and CHPA Knowledge centre combine to provide a comprehensive source of information and guidance for planners and stakeholders in developing and implementing plans, policies and programmes related to renewable and low carbon energy and climate change.</p>	