



Environmental Accounts

Developing accounts and indicators for regulation and policy departments.

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www.ons.gov.uk

Workstreams

- Strengthening UK Environmental Accounts
- Measuring the Green Economy
- Measuring Natural Capital

UK Environmental Accounts

Physical Flows Accounts

- Energy Consumption
- Atmospheric Emissions
- Material Flows
- Water Accounts
- Waste Accounts

Environmental Activity Accounts

- Environmental Taxes
- Environmental Protection Expenditures
- Environmental Goods and Services

Natural Capital Accounts

- Oil and Gas Reserves (Physical and Monetary)
- Land use and land cover (Physical)
- Timber (Physical and Monetary).
- Initial natural capital estimates (top-down)
- Freshwater Ecosystem Asset and Services Account (Physical and Monetary)
- Woodland Ecosystem Account (Physical) and Monetary).

Physical Flow Accounts

Account	Source data provided by:	Account Produced by:
Energy Consumption	Energy Ministry Consultants	ONS
Atmospheric Emissions	Energy Ministry Consultants	ONS
Material Flow Account	Environment Ministry Taxation Ministry Geological Ministry.	ONS
Water Accounts	Environment Ministry	Environment Ministry
Waste Accounts	Environment Ministry	Environment Ministry

Environmental Activity Accounts

Account	Source data provided by:	Account produced by:
Environmental Taxes	ONS	ONS
Environmental Protection Expenditure	ONS Environment Ministry	ONS
Environmental Goods and Services (EGSS)	Energy Ministry Environment Ministry Transport Ministry International Trade Ministry. ONS	ONS

Measuring the Green Economy, Example 1: Low Carbon & Renewable Energy Survey

- EGSS detail proved insufficient for domestiic policy requirements.
- An EU Grant funded survey feasibility study (our thanks).
- England, Scotland, Wales and Northern Ireland governments funded the resulting statutory survey.
- 41500 questionnaires were despatched in February 2015.
- Current response rate is 84%,..
- Results will be published on the 25 November 2015.

Example 1 - Continued

17 Sectors - Examples	Variables Requested
 Offshore Wind Onshore Wind Solar photovoltaic Hydropower Bioenergy Low carbon financial and advisory services Low emission vehicles Nuclear power 	 Turnover Subsidies Imports Exports Employment Acquisitions of capital assets Disposals of capital assets Regional breakdown

Measuring the Green Economy, Example 2: Climate Change Survey Feasibility

- Environment Ministry funded ONS to develop a survey into the impact of climate change on the Economy.
- We are consulting on resulting questionnaire and feasibility report
- A positive consultation may lead to a pilot survey of 2000 respondents.
- Please respond to our consultation at:

https://www.gov.uk/government/consultations/climate-changesurvey-consultation

We value your input.

Example 2 - Continued

Sections	Weather events
 Impact from current 	 Flooding
weather events.	 High temperatures
	 Low temperatures
 Risks and opportunities 	• Wind
relating to future changes	 Low water availability
in climate.	 Heavy rain
	 Ice, hail or snow.
 Income from adaptation 	 Electrical storms
goods and services related	
to changes in climate.	

Natural Capital Accounts

Account	Source data provided by	Account produced by
Oil and Gas Reserves	Energy Ministry	ONS
Land Use/Cover Account	Environment Minisry	ONS
Timber Account	Forestry Ministry ONS	ONS
UK Natural Capital Initial Estimates	Environment Ministry Energy Ministry Forestry Ministry British Geological Survey ONS	ONS
Woodland ecosystem accounts	Forestry Ministry	Environment Ministry
Freshwater ecosystem accounts	ONS Environment Minisry European Environment Agency	ONS

Example 3: Natural capital accounts

- Following components were valued:
 - Oil & gas reserves
 - Mineral reserves
 - Timber
 - Agricultural land
 - Fisheries
 - Public water supply
 - Outdoor recreation
 - GHG sequestration
- More than 2000 visits in 6 months

International Co-ordination

- Within UK Office for National Statistics there is an International Relations Team.
- The UK is well represented internationally, for example Eurostat, OECD and UN.
- Environmental experts across ministries brief UK representatives at these meetings.
- When considering regulation, UK experts liaises across
 Government Statistical Service, European Statistical Service,
 Members of European Parliament and Her Majesty Treasury.
- The UK National Statistician receives quarterly updates regarding regulation compliance.
- Government Statistical Service Committee and ONS Affairs Committee build international strategy and monitor UK involvement in international matters.

Future plans

- Our future activities are obviously dependant on sufficient resources. Out intention is to:
- Progress the Low Carbon Survey into a second year.
- Progress the Climate Change Survey through consultation to pilot stage.
- Initiate a cost based approach natural capital pilot (EU grant required).
- Develop the Environmental Protection Expenditure account.
- Develop imports and exports for the Environmental Goods and Services Account.

Thank you!!