

Greenhouse gas (GHG) emission data for 2009/10

We have been publicly reporting on our GHG emissions since 2002/03. In September 2009 the Department for Environment, Food and Rural Affairs (Defra) published guidance for organisations on how to measure and report their greenhouse gas (GHG) emissions. The water industry has aligned its carbon accounting methodology* for calculating operational emissions with the Defra guidance. 2009/10 was the third year that our financial regulator, Ofwat, asked us to report on our GHG emissions annually, their requirements followed the Defra guidance. The Tables below detail shows the total GHG emissions, as reported to Ofwat, in tonnes carbon dioxide equivalent (tCO₂e), the renewable energy generation and emission benefits for Severn Trent Water Ltd's Regulated Business for the period 1st April 2009 to 31st March 2010.

| Operational greenhouse gas emissions* | Tonnes of CO ₂ e |
|--|-----------------------------|
| Scope 1 (Direct emissions) | |
| Direct emissions from burning of fossil fuels (including natural gas CHP generated onsite) | 13,751 |
| Process and fugitive emissions | 145,873 |
| Transport: Company owned or leased vehicles | 16,019 |
| Scope 2 (Indirect emissions (purchased electricity)) | |
| Total grid electricity used by company (including CHP electricity purchased) | 411,114 |
| Scope 3 (Indirect emissions – other) | |
| Business travel on public transport and private vehicles used for company business | 1,635 |
| Outsourced activities (if not included in Scope 1 or 2) | 1,497 |
| Total gross emissions | 589,890 |
| Exported renewable energy (generated onsite and exported) | -23,287 |
| Total annual emissions (net of exported) | 566,603 |
| Self supplied renewable (generated onsite) | -76,919 |
| Total annual emissions (net of self supply and exported) | 489,684 |

| Renewable energy generated | GWh | Displaced Emissions (t CO ₂ e) |
|--------------------------------------|-------|---|
| Total energy generated onsite | | |
| Self Supplied | 138.8 | 76,919 |
| Exported | 42.8 | 23,287 |

| Annual operational greenhouse gas intensity ratios* | tCO ₂ e/MI |
|--|-----------------------|
| Operational GHG emissions per MI of treated water (from water treatment and pumping) | 0.377 |
| Operational GHG emissions per MI of sewage treated (from waste water treatment and pumping and sludge processing and disposal) | 0.541 |

Previous years data are available from our website:
<http://www.stwater.co.uk/server.php?show=nav.6373>

*Figures derived from the *Carbon accounting in the UK Water Industry: methodology for estimating operational emission, Version 4. March 2010*