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**Energy-efficient Buildings (EeB)**
**RESEARCH PRIORITIES FOR THE DEFINITION OF A MULTI-ANNUAL ROADMAP AND LONGER TERM STRATEGY**

- **Comments from the WssTP**

We consider that the topic "water" is not much addressed throughout the document and we know the interconnection between water and energy is a key challenge. It is also very valid in buildings.

We think that the roadmap should consider that for the water sector, the heating of water in buildings represent at least 75% of the total energy, therefore one tool to increase our sustainability resides in the reduction of energy requirement for water heating in buildings.

We would like for instance to draw the attention on the work done by the Environment Agency in the UK. This work has shown that an analysis of carbon emissions from the water "system" demonstrates that 89% of carbon emissions are related to water use and heating in the home; 11% results from the abstraction, treatment and delivery of water plus the collection, treatment and disposal of wastewater.

There is strong need for efforts to improve water heating in the home; we consider it could have much greater impact on carbon emissions.

We would like to underline that there is no mention of several aspects that could be interesting to point out:

There is no mention of wastewater collection and the potential to improve energy recovery.

There is no mention about water reuse within buildings – in Japan all properties serving more than 20 people (Burt probably know the exact numbers) must recycle Water for toilet use etc.

There is no mention about water efficiency measures in the home and in commercial premises.

- **Recommendation**

We consider this road map and work as a key document that confirmed the need to work with ECTP. We started to discuss collaboration with the ECTP through the CSTB in order to collaborate under the pilot programme on sustainable management of water in urban areas.