

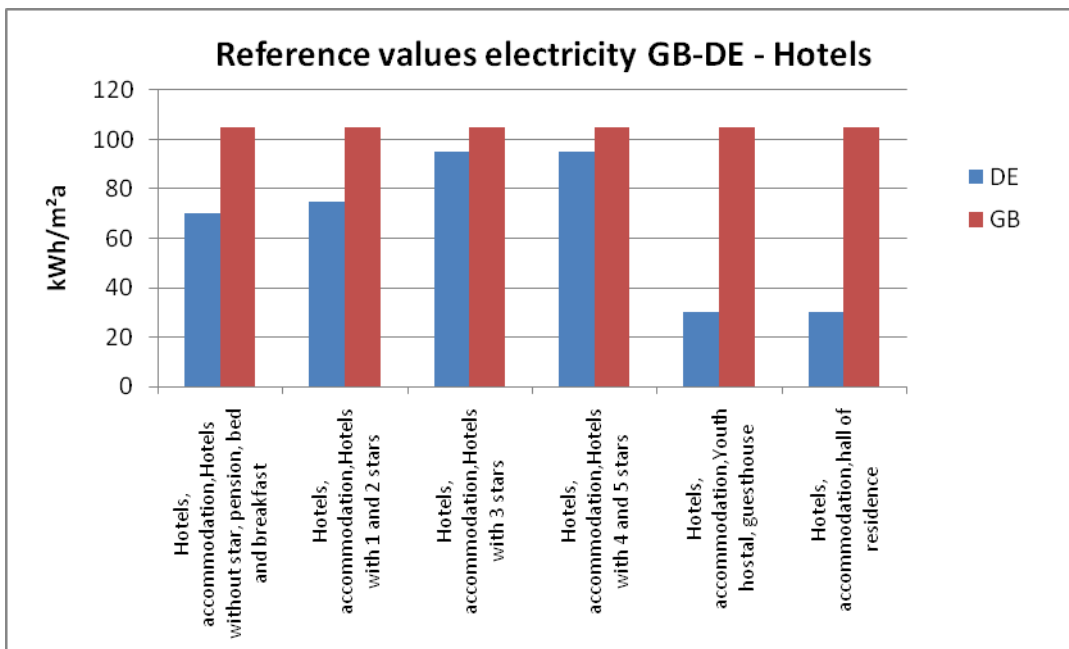
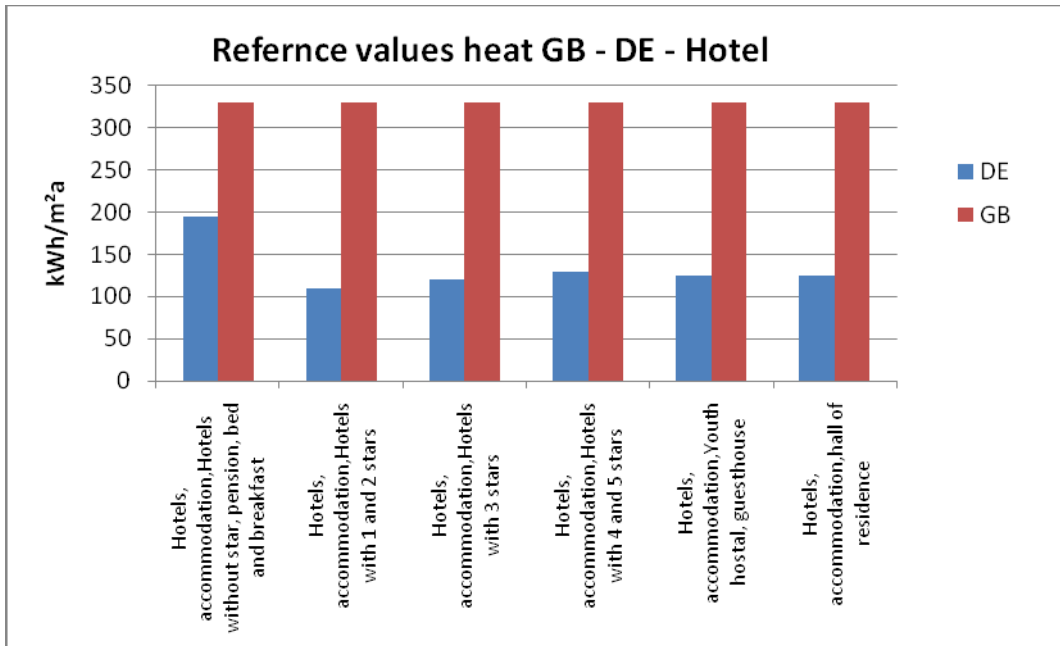
Reference values for operational rating in Great Britain and Germany

An overview
Draft 15 April 2008

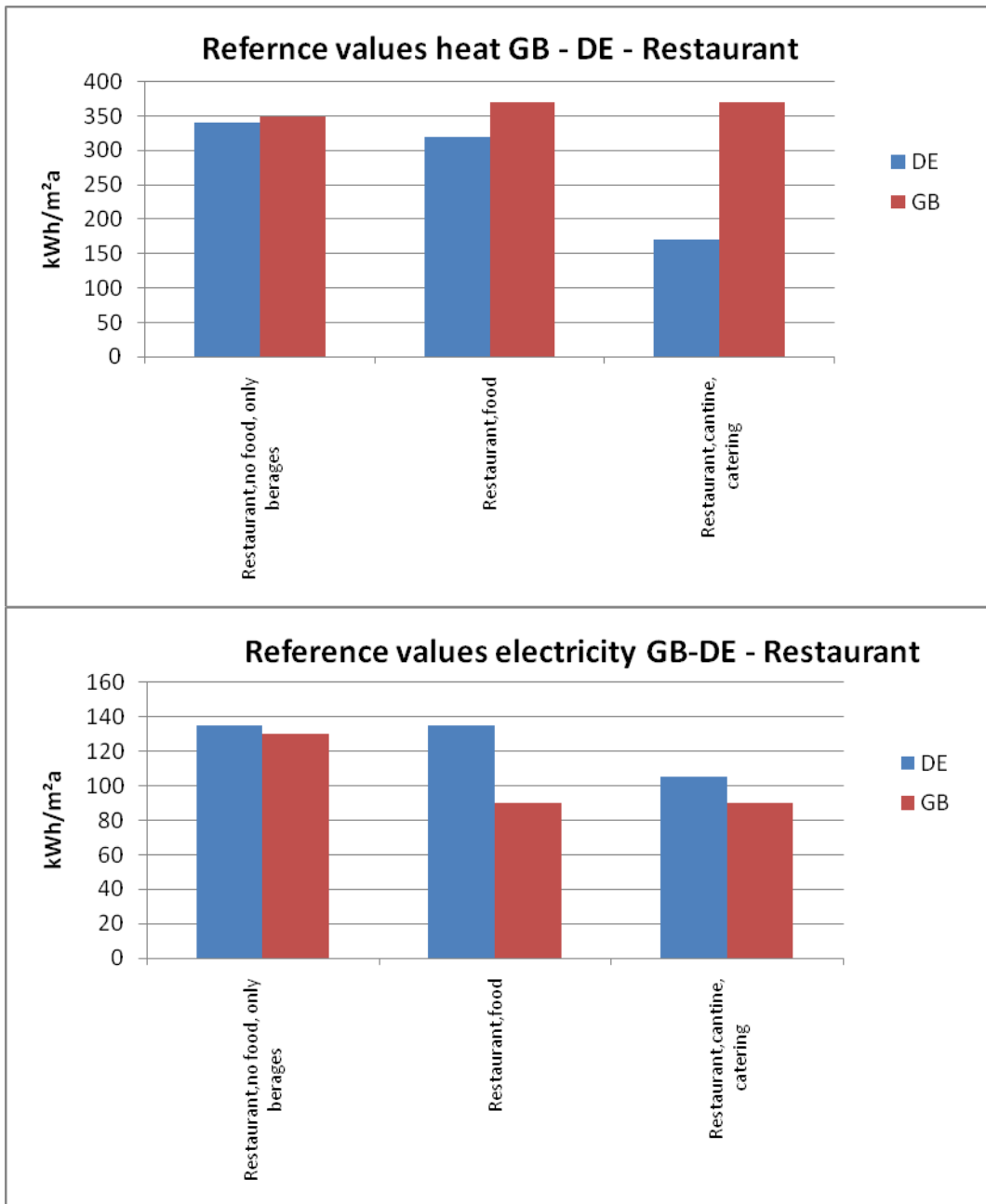
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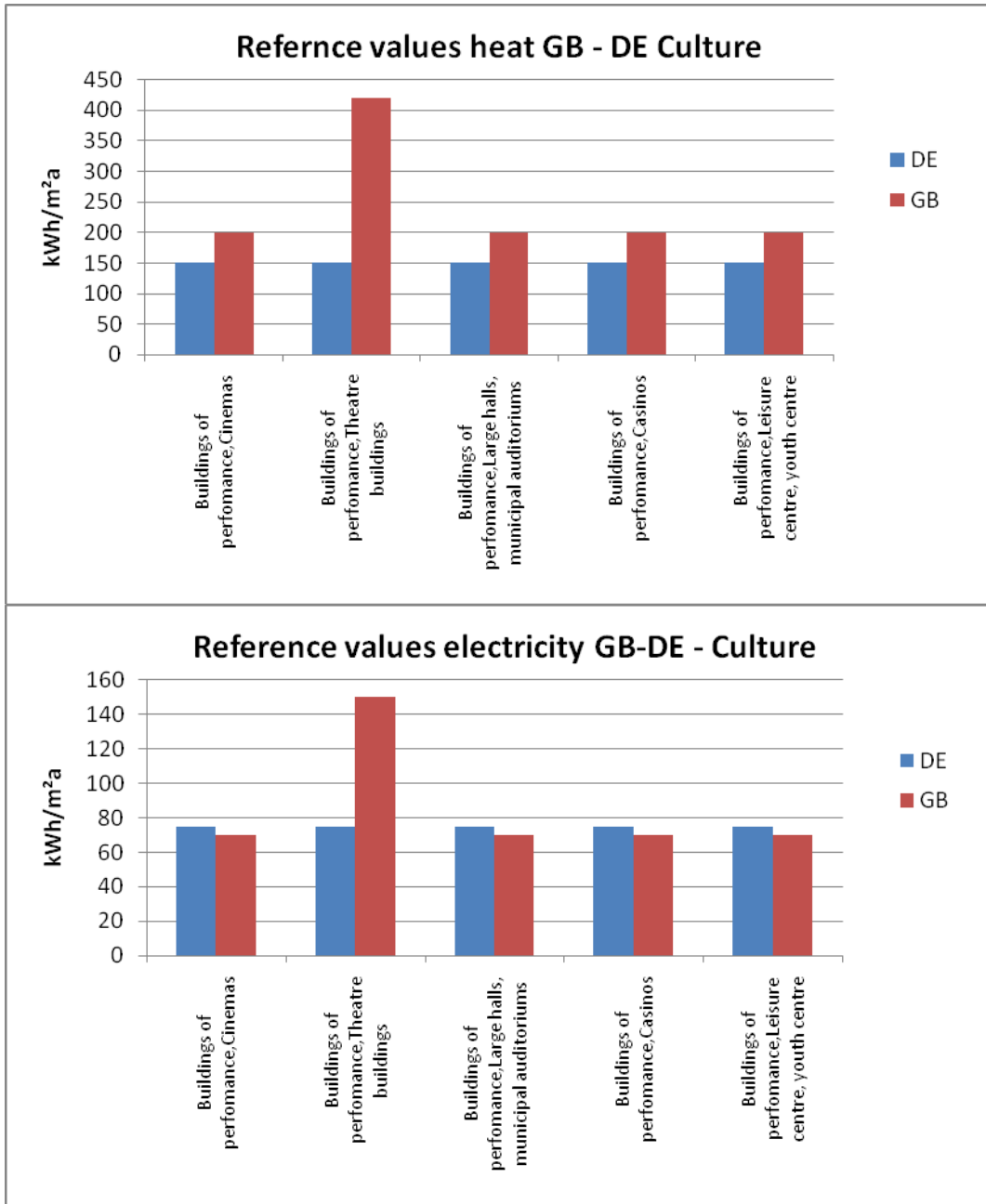
1. Hotels



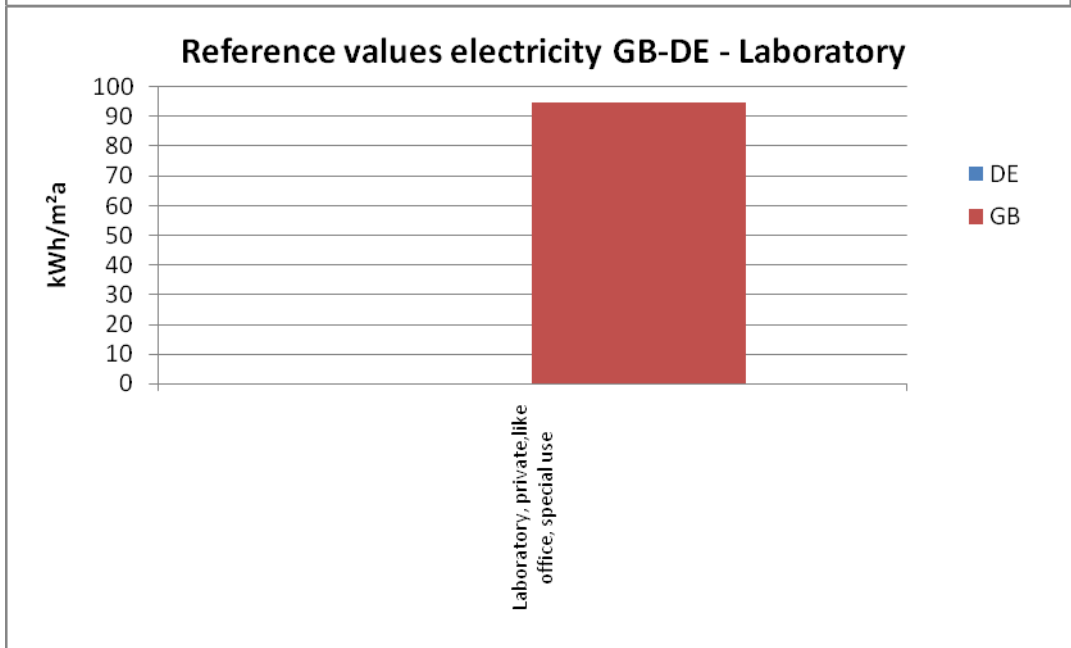
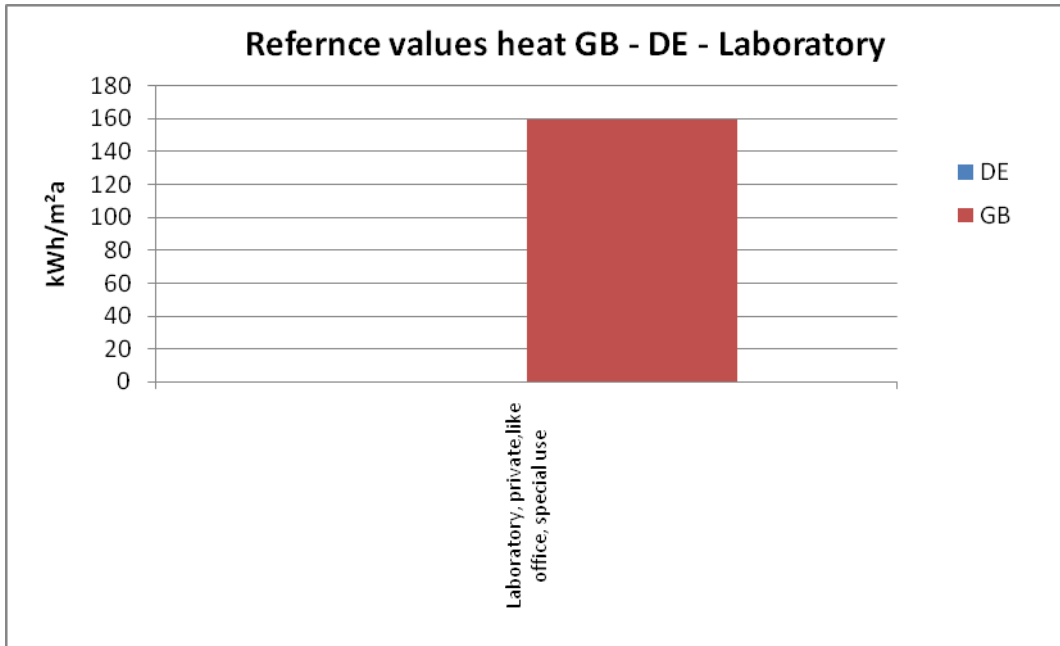
2. Restaurant



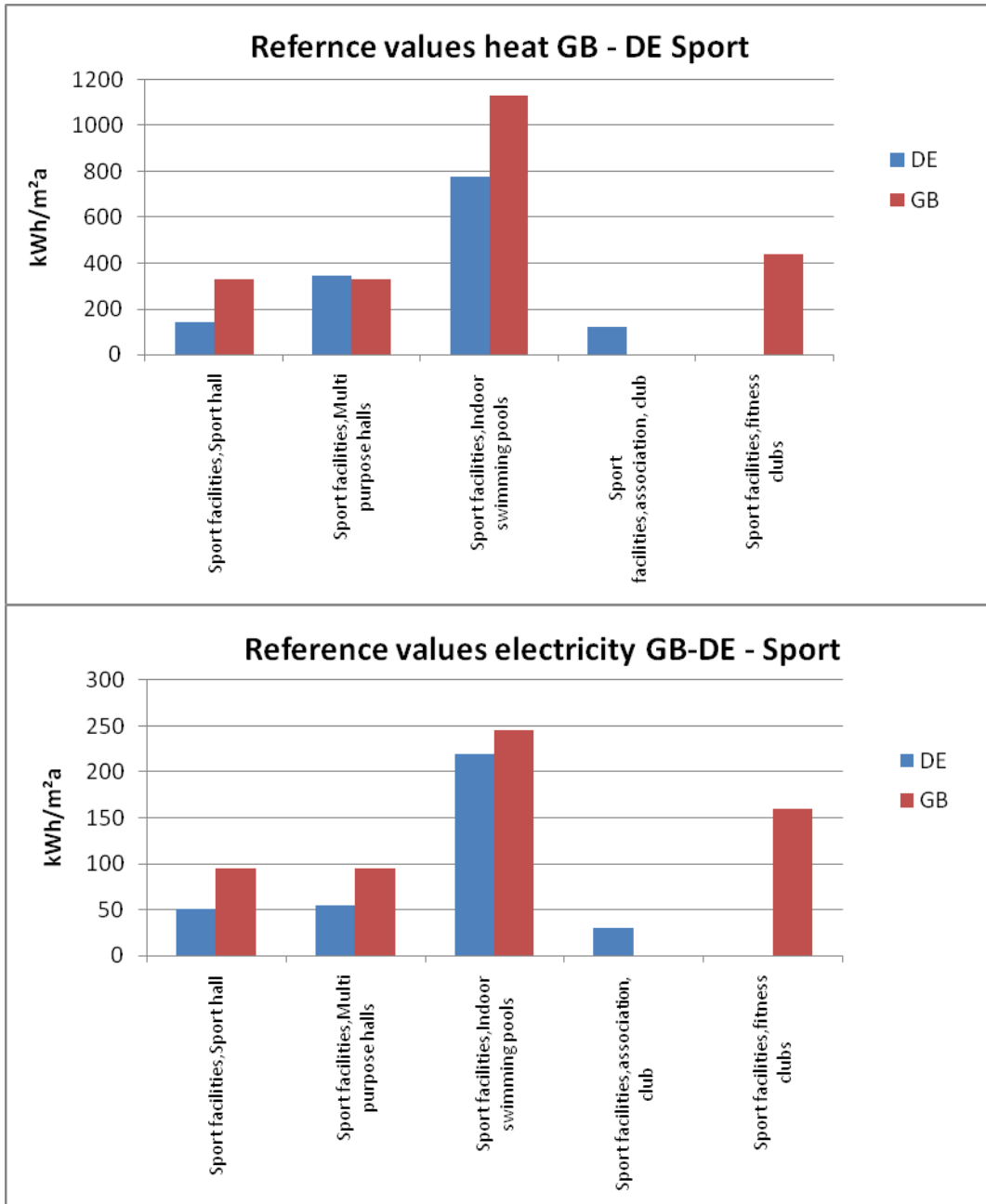
3. Culture



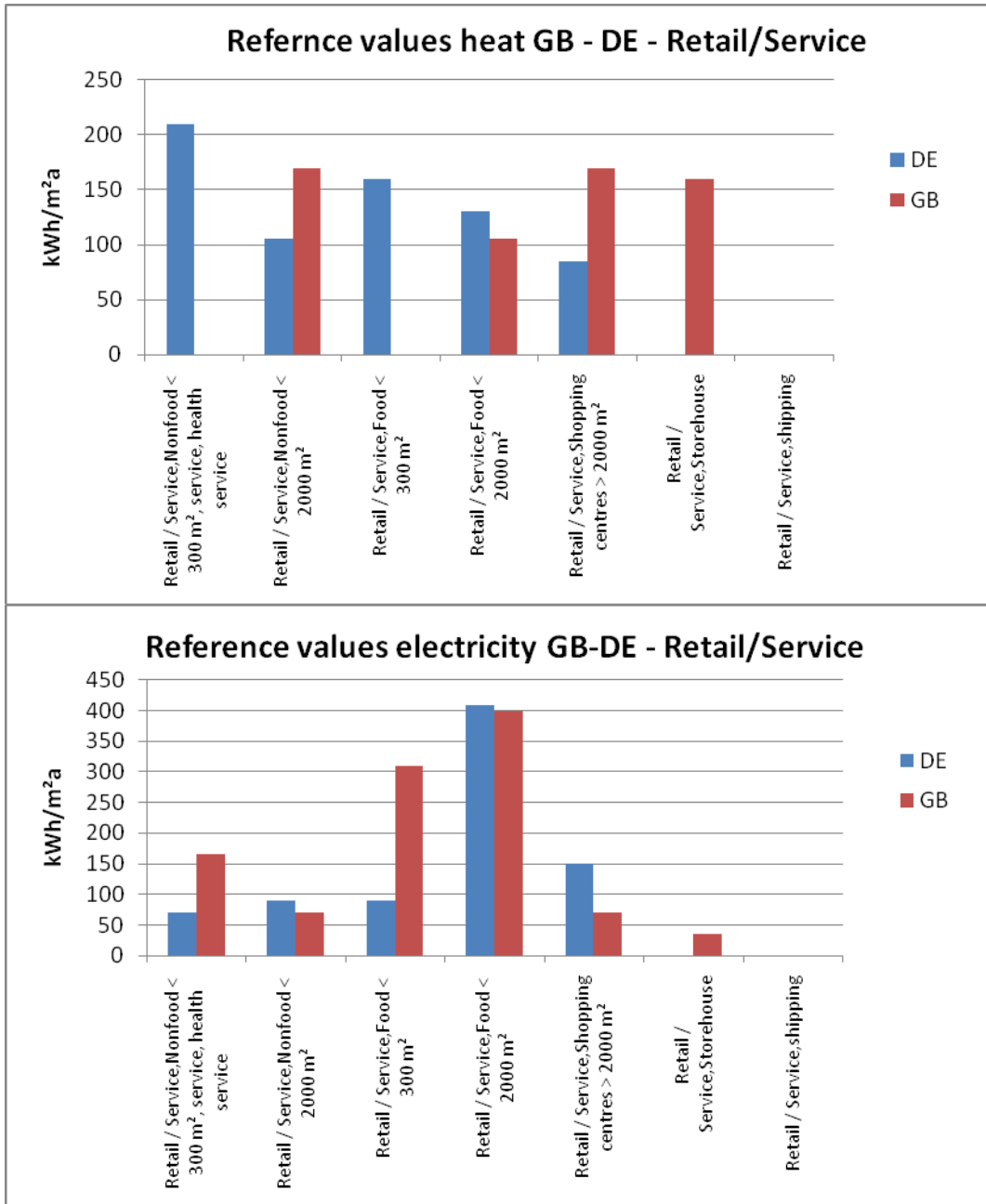
4. Laboratory



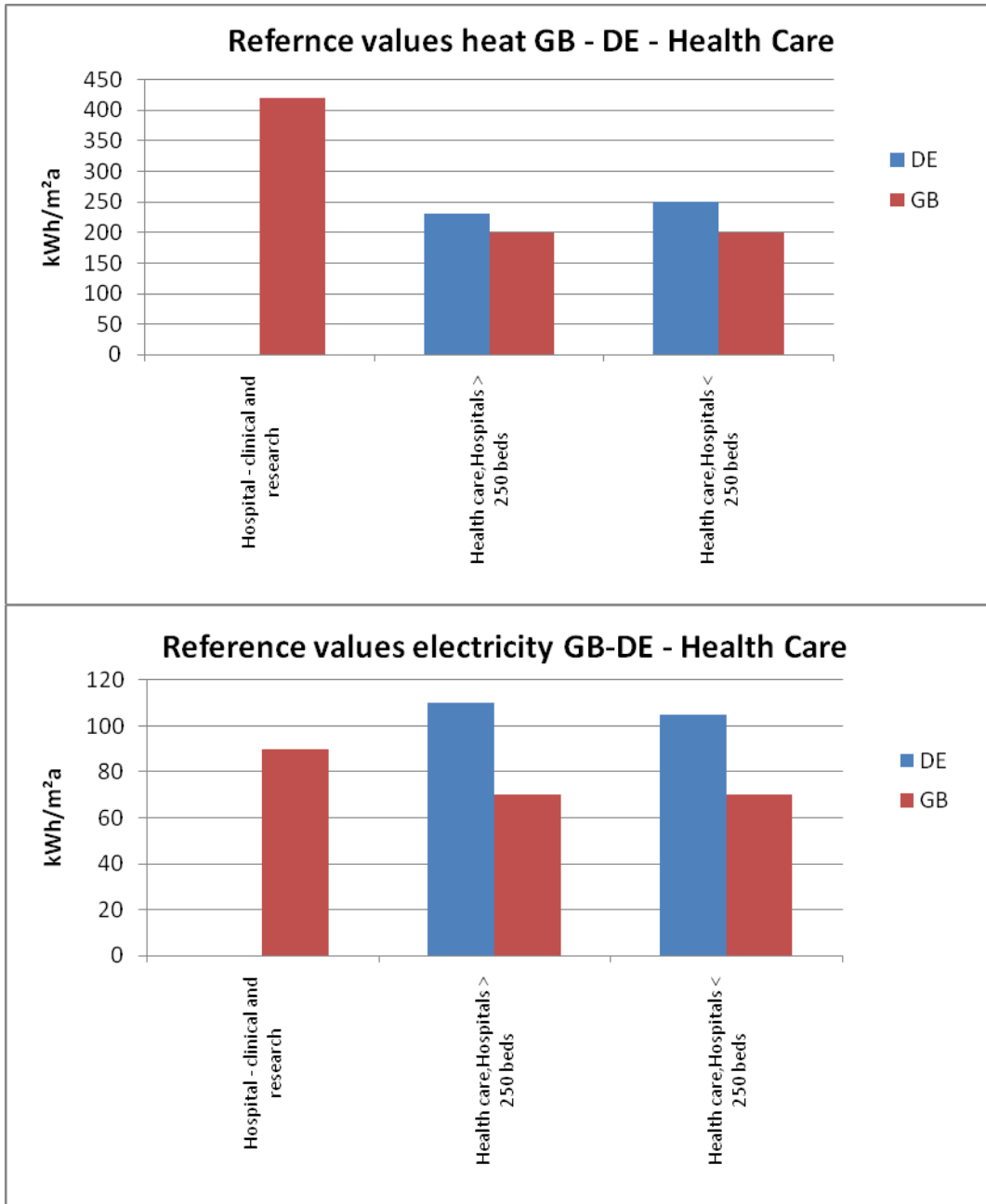
5. Sport



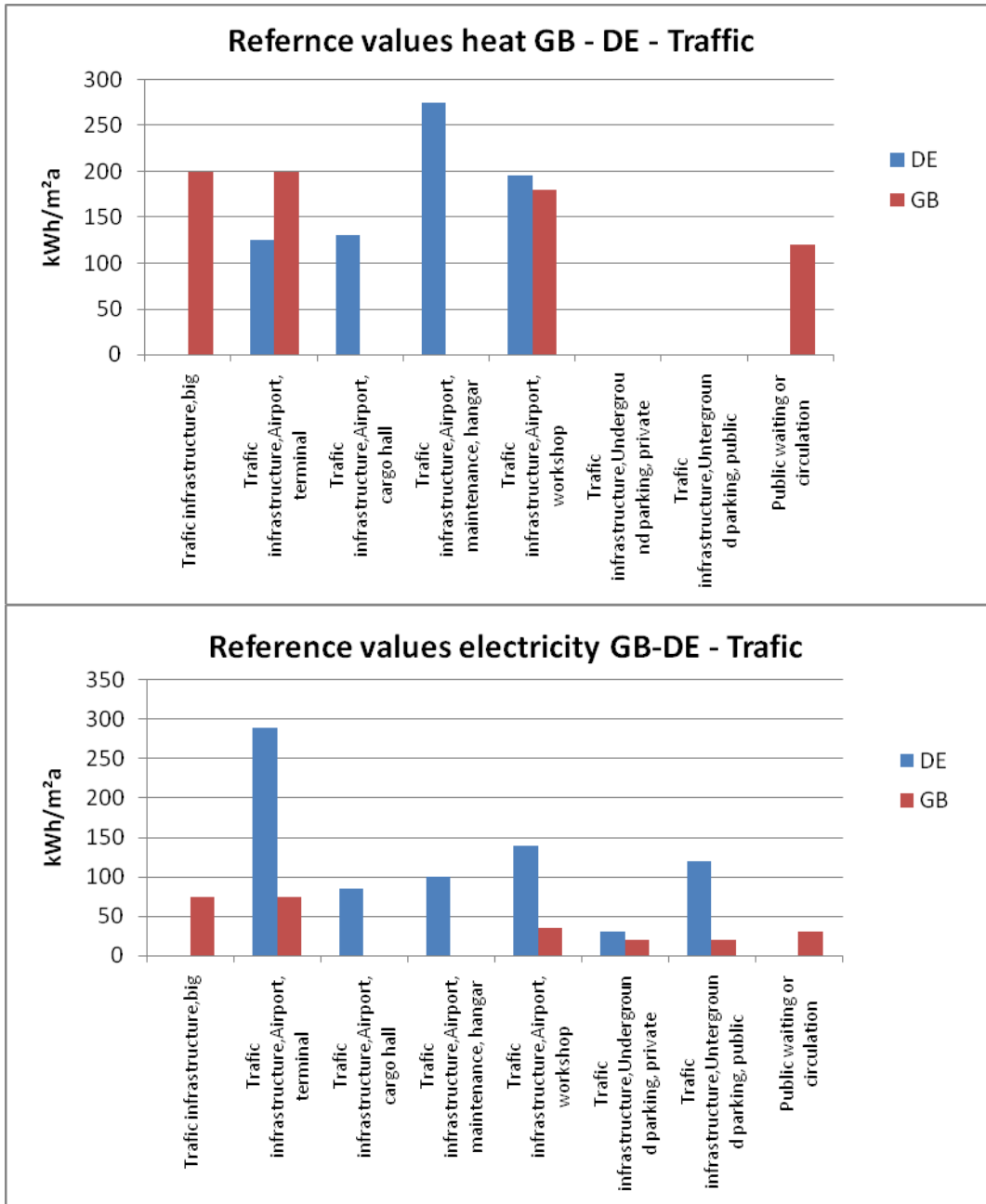
6. Retail / Service



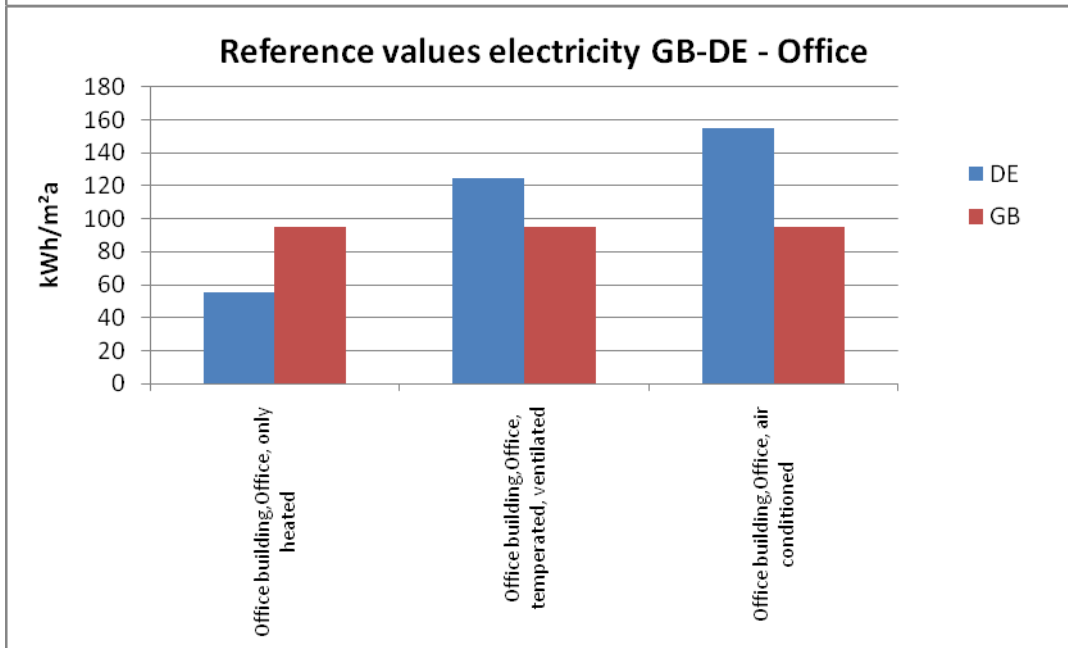
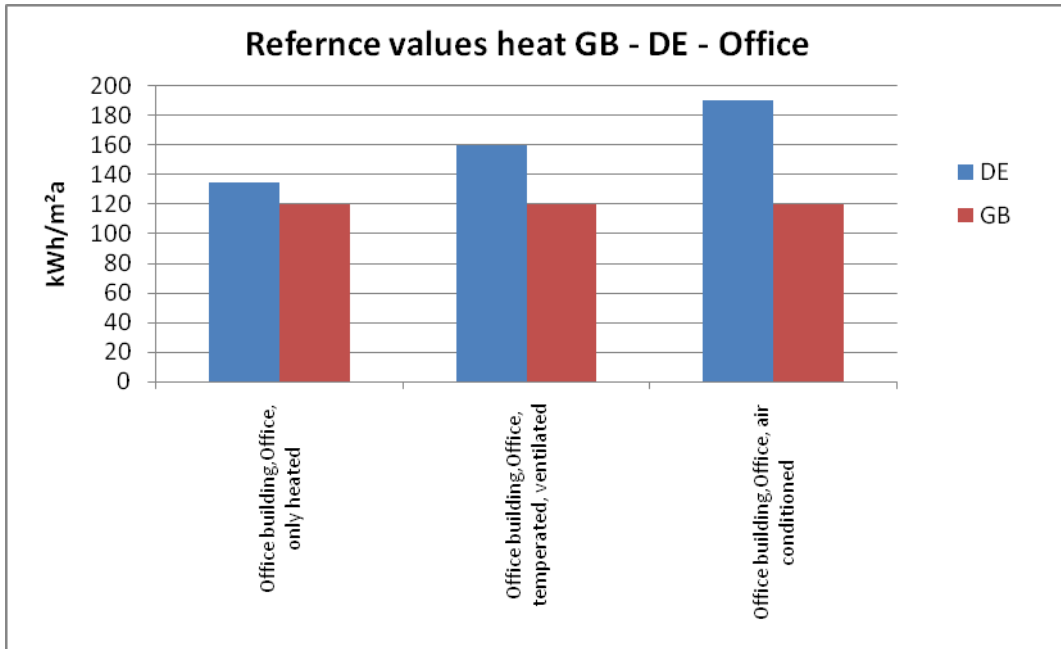
7. Health care



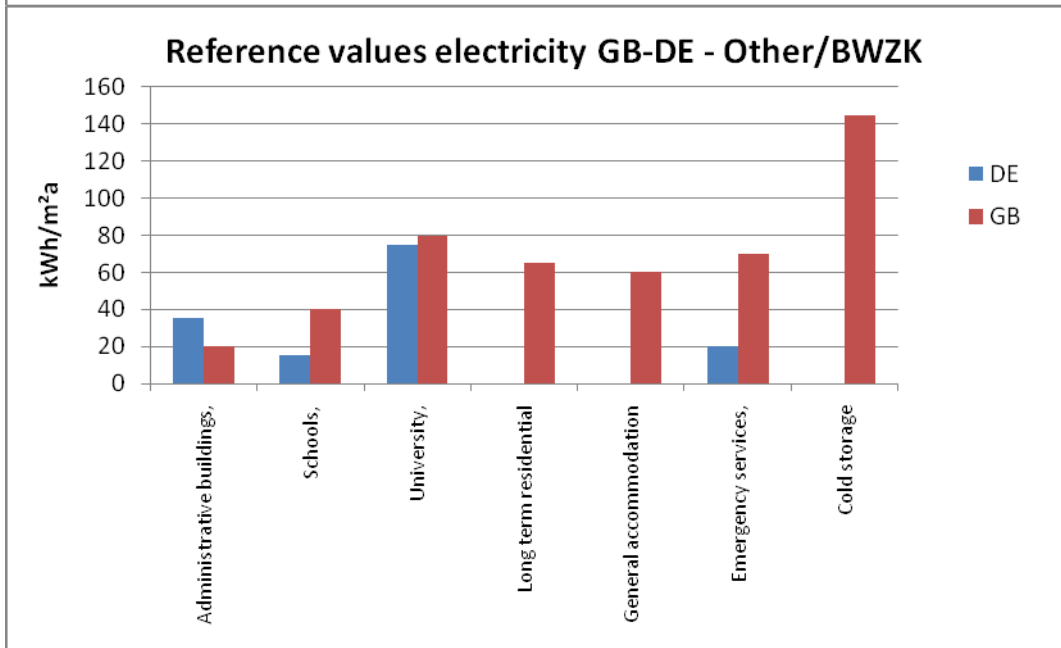
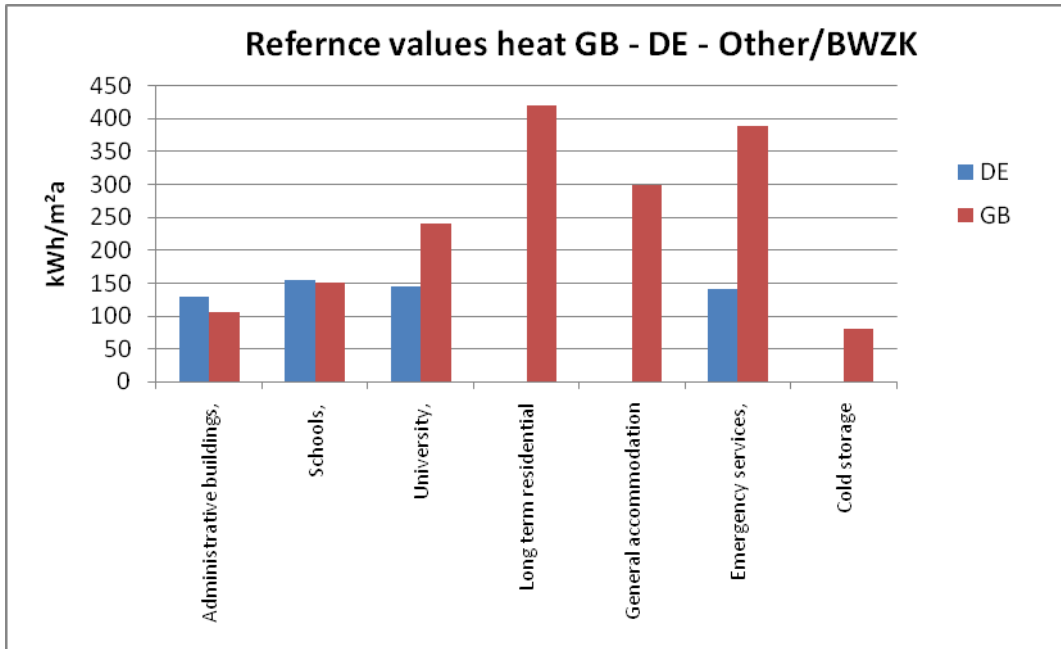
8. Traffic infrastructure



9. Office



10. Other



11. Summary

General:	Heat consumption is general clearly higher in GB than DE. It seems that the insulation of building stock in GB is clearly lower than in GE.
Hotels	Electricity consumption fits well, except the youth hostels and other low standard accommodation, which has in DE unlike GB a separate building type
Restaurant	Bar, Pub (only beverage) has in DE higher electricity and heat consumption than the restaurant. There is no reason for that.
Culture	Theatre has a much higher heat and electricity consumption in GB. It has to be proven, if the types fit together.
Laboratory	It is not clear yet, if laboratory will get a reference value in DE. If, electricity would be much higher than in GB (between 500 and 1000 kwh/m2a)
Sport	No comment
Retail	No building type "shopping centre" in GB, shopping centre (DE) is compared with big non food stores (GB) which might not be correct. The electricity demand for small food seems to be too low in DE
Health	No comment
Traffic	Data from railway station not yet evaluated in DE. Electricity consumption in Terminal (Airport) (DE) is much higher than general Terminal (GB)
Office	GB has only one office type
Others	The values for emergency services are much lower in DE (BWZK) than in GB.