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Title: A sustainable urban form: the challenges of compactness from the viewpoint of energy consumption and carbon emission

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- Household energy use (HEU) was studied to evaluate city form's sustainability
- City compactness and landscape indices were used to describe urban land sprawl
- Residence buffers were established to analyze green-space(water-body) accessibility
- Green-space(GS) and water-body(WB) fragments are important in HEU reduction
- Compactness with less accessibility to GS and WB does little to reduce HEU

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