Geophysical Research Abstracts, Vol. 7, 06969, 2005 SRef-ID: 1607-7962/gra/EGU05-A-06969 © European Geosciences Union 2005



## Weather and non-weather related factors affecting energy load demand: a comparison of the two cases of Greece and England.

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This paper presents a comparison of the characteristics of the energy demand for England and Greece and explores its relationship with climate factors. Year-to-year trends for both areas are identified, associated mainly with economic, social and demographic factors. In addition, several other effects such as weekly and holiday effects, unrelated to weather conditions are detected and are examined in comparison for the two areas. Daily and monthly seasonal effects are studied separately to isolate the weather/climate influence on electricity load. Temperature is expected to play the most important role in controlling the energy load demand, especially for the Greek area. However other weather variables, such as cloud cover and precipitation also have an effect on demand, especially for England.