Brief Announcement:
A Consent Management Solution for Enterprises

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Camden Smart Energy

http://iot-cosmos.eu/
Privacy Concerns

Fig. 1. Household electricity demand profile recorded on a one-minute time base, reproduced from [4]

Quinn, E.L.: Privacy and the New Energy Infrastructure, Social Science Research Network (SSRN), February 2009
Privacy Challenges

Consent

The conditions for consent have been strengthened, and companies will no longer be able to use long illegible terms and conditions full of legalese, as the request for consent must be given in an intelligible and easily accessible form, with the purpose for data processing attached to that consent. Consent must be clear and distinguishable from other matters and provided in an intelligible and easily accessible form, using clear and plain language. It must be as easy to withdraw consent as it is to give it.

http://www.eugdpr.org/
Consent Manager

Consent Management Architecture in COSMOS

- **REST API**
- **Consent Manager Service**
- **Home owner consent GUI**
- **Domestic environment: temperature, humidity, window sensors**
- **Object storage**
- **Data Access Controller**
- **Filtered data**
- **Analytics use-cases:**
  - Heating schedule
  - Damp prediction
- **Personal Recommendations**
- **Crowd-based Recommendations**
- **Spark**
- **kafka**
- **Secor**
- **Analytics use-cases:**
  - Heating schedule
  - Damp prediction
- **SQL data access**