1. Introduction

The presentation will be based on a report about the miscellaneous standby consumption of small electrical and electronic appliances in European households. Honestly, it is a rewrite of the executive summary of the report. The work has been commissioned through a consultant assignment fully financed by the European Commission. Four organisations were involved and the work was carried out during the spring of 1997. Representatives of the relevant industries and policy-making organisations attended planned meetings and were also given the opportunity to comment on draft versions of this report.

2. Selecting products

Criteria was set up for selecting a limited range of items from the wide scope of products originally listed by the Commission. It is obvious that some components, for example power supplies, are used for several different products. Also, some new products and new technologies will play a significant role in the near future. The selected products and appliances are presented in bold italics in the following table.

<table>
<thead>
<tr>
<th>Appliances</th>
<th>Components</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microwave ovens</td>
<td>(power supply, display)</td>
</tr>
<tr>
<td>Satellite receiver, IRD</td>
<td>(power supply, ICs, display)</td>
</tr>
<tr>
<td>(hifi-equipment, lighting, chargers)</td>
<td><strong>Power supply</strong></td>
</tr>
</tbody>
</table>
3. Analysing technologies and their development

There are two major changes that will dominate the stand by power consumption of the selected products;

- switch mode power supplies will to a large extent replace linear power supplies. This will reduce future electricity consumption.
- Integrated receivers-decoders (IRD) (Set-Top Boxes) will be delivered "en masse". These commodities could be a part of a contract with a service provider. In that case they might not be bought by the consumer. When installed in the household the IRD might continuously use around 20 W and would represent an additional miscellaneous stand by load.

From selected appliances and components power consumption for three scenarios are described;

Business As Usual (BAU)
Manufacturer Driven Development (MDD)
Maximum Energy Efficiency (MEE)

4. Consumption and potentials

Graph Total consumption for Scenario Business As Usual