Project Title: London TV Pickup (need images/gif of picking up tvs for first slide)

Team Members:

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The phenomenon of TV Pickup is a UK Term used to express the spike in electrical energy consumption that occurs when a break takes place in a TV programme that has attracted a large audience. It is typically caused by people boiling kettles for tea and the opening of fridge doors. The phenomenon has been observed for both sporting events as well as popular soap operas. To test the validity of the phenomenon of TV Pickup the following will be analyzed:

1. Household energy usage during 2012 in the greater London area.
   1. <https://data.london.gov.uk/>
      1. This site meters the energy consumption in kWh every thirty minutes.
2. The top 20 sporting events in the United Kingdom based on TV ratings available from [www.barb.co.uk](http://www.barb.co.uk)

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| Horse Racing: | Grand National |
| Olympics: | Usain Bolt 100m |
| Tennis: | Wimbledon Men’s Final |
| Tennis: | Wimbledon Women’s Final |
| Soccer | FA Cup Final |
| Soccer | FA Cup Sem-Final 1 |
| Soccer | FA Cup Semi-final 2 |
| Soccer | League Cup Final |
| Soccer | England vs. France |
| Soccer | England vs. Ukraine |
| Soccer | England vs. Sweden |
| Soccer | England vs. Italy |
| Rugby | England vs. Australia |
| Rugby | England vs. South Africa |
| Rugby | England vs. New Zealand |
| Rugby | England vs. France |
| Rugby | England vs. Italy |
| Rugby | England vs. Wales |
| Rugby | England vs. Ireland |
| Rugby | England vs. Scotland |

* 1. and potentially;
     1. Other major sporting events,
     2. Popular soap operas.

Questions:

1. Can energy spikes associated with pickup during the broadcasting of major sporting events be detected using energy consumption data.

2. Can the relative size of the spike associated with the pickup be predicted for each ACORN group ?

**Research:**

Clean up the energy usage data

Ratings for the major sports games in London

Clean that data/ pull out relevant data.

Afterwards need to decide if need to look for ratings for other games.

Write in how to correlate