# Introduction

The electricity usage details of 70 houses in Mueller neighborhood in Austin,Texas has been provided. The data was measured by [Pecan Street](http://www.pecanstreet.org/).

The data is given for the months of June, July and August – Summer months and October, November and December – Winter months of the year 2017.

# Metadata for the dataset

The details about the metadata for the provided dataset have been given below

## dataid

The unique identifier for the home. To be more precise, this is the unique identifier for the home-resident pair. Thus, if a resident moves, the data collected from the house is associated with a new data ID.

## localminute

The exact date and time at which the reading was measured.

## air1

eGauge data of air compressor unit.

## air2

eGauge data of second air compressor unit.

## air3

eGauge data of third air compressor unit.

## kitchen1

eGauge data of kitchen circuit. This type of circuit includes only lights, fans, and wall outlets.

## Kitchen2

eGauge data of additional kitchen circuit. This type of circuit includes only lights, fans, and wall outlets.

## kitchenapp1

First kitchen small appliance circuit eGauge data present. This type of circuit includes only wall outlets in the kitchen, and so may include toasters, coffee makers, blenders, etc.

## kitchenapp2

Second kitchen small appliance circuit eGauge data present. This type of circuit includes only wall outlets in the kitchen, and so may include toasters, coffee makers, blenders, etc.

## car1

Electric vehicle charger eGauge data present

## gen

eGauge data present for power generated by a solar photovoltaic system

## grid

eGauge data present measuring power drawn from the electrical grid

## use

Whole home electricity use eGauge data present

use = gen + grid

# Details of Nest,ev and gen

## Nest

Out of the 70 houses 35 houses have installed Nest. The house ids of those houses are listed below.

2953, 5026, 7951, 86, 871, 1796, 2158, 2171, 3778, 3831, 6730, 7769, 9356, 2199, 7788, 5892, 9019, 9737, 187, 1103, 1415, 1792, 5129, 5738, 6266, 7560, 7627, 7965, 9052, 2557, 4296, 1185, 7024, 1714, 2156.

Details about nest can be viewed [here](https://nest.com/).

## EV

Out of the 70 houses 38 houses have ev(electric vehicles). The house ids of those houses are listed below.

7024, 1714, 1801, 2018, 2335, 2470, 2638, 2814, 2965, 3367, 3482, 370, 3723, 3967, 4336, 4352, 4373, 4526, 4767, 5403, 545, 624, 661, 6836, 6941, 6990, 7940, 8142, 8156, 8236, 9729, 9932, 9934, 9935, 9937, 1642, . 185, 114

## GEN

Out of the 70 houses 56 houses have gen(PV-Photo Voltaic) unit installed. The house ids of those houses are listed below.

1801, 2018, 2335, 2470, 2638, 2814, 2965, 3367, 3482, 370, 3723, 3967, 4336, 4352, 4373, 4526, 4767, 5403, 545, 624, 661, 6836, 6941, 6990, 7940, 8142, 8156, 8236, 9729, 9932, 9934, 9935, 9937, 7024, 1714, 1185, 2199, 7788, 5892, 9019, 9737, 187, 1103, 1415, 1792, 5129, 5738, 6266, 7560, 7627, 7965, 9052, 2557, 4296, 1642