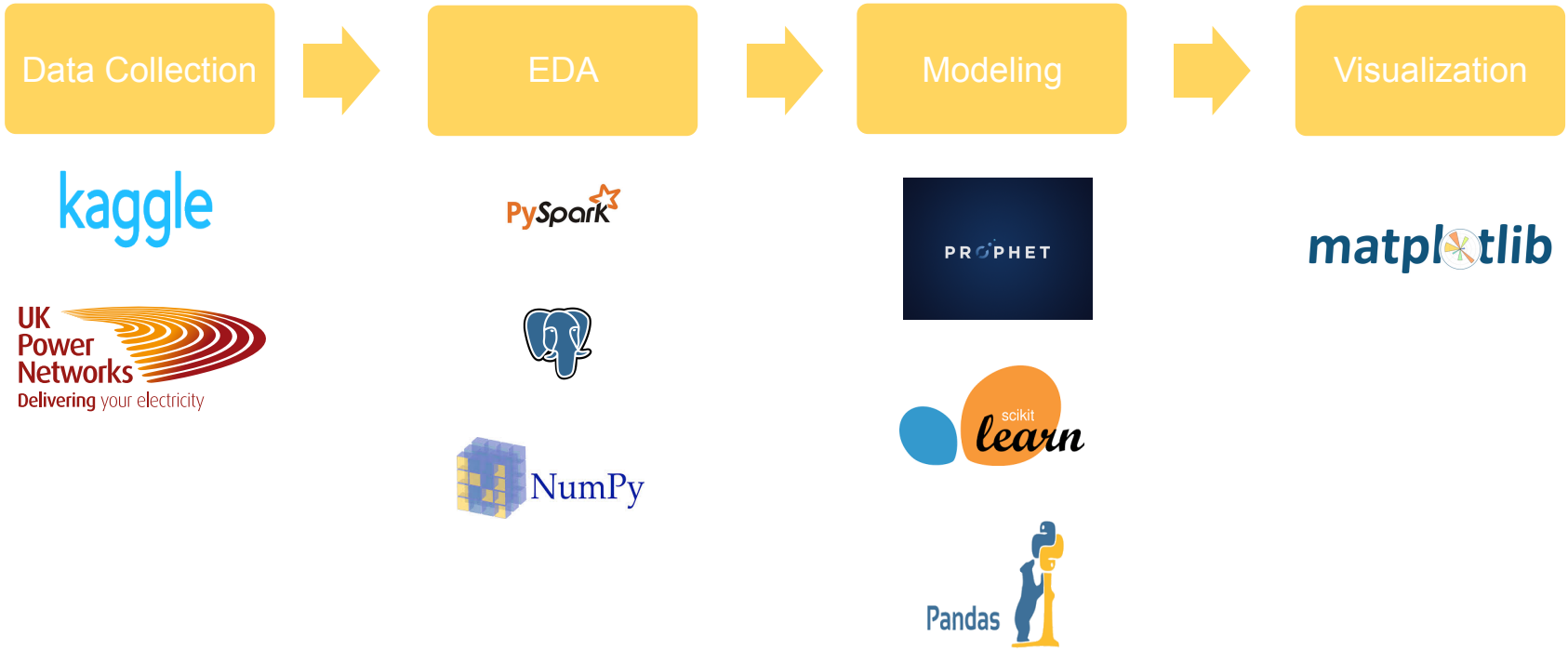
London Smart Meter Predictions

By Hans Remy

Smart Meter Data?

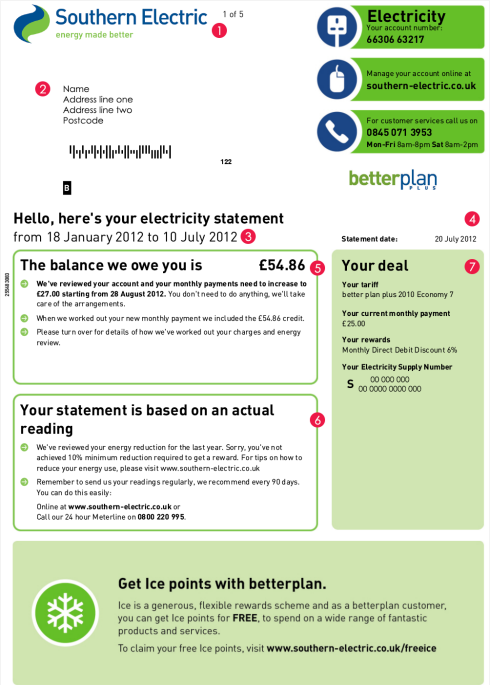
- Half hourly meter-readings
- Spot market prices
- More insight in consumption
- Balancing the grid

Methodology and Tools



Deeper Insight Into The Data

- 111 blocks (household grouped by Acorn Data)
- Total of 5,567 households
- Period between November 2011 and February 2014
- Total around 167 million meter readings
- Three groups of households:
    - Affluent
    - Comfortable
    - Adversity
- Weather data for same period as readings



Southern Electric
energy made better
1 of 5

Electricity
Your account number
66306 63217

Manage your account online at
southern-electric.co.uk

For customer services call us on
0845 071 3953
Mon-Fri 8am-8pm Sat 8am-2pm

Name
Address line one
Address line two
Postcode

122

betterplan

Hello, here's your electricity statement
from 18 January 2012 to 10 July 2012

Statement date: 20 July 2012

The balance we owe you is £54.86

- We've reviewed your account and your monthly payments need to increase to £27.00 starting from 28 August 2012. You don't need to do anything, we'll take care of the arrangements.
- When we worked out your new monthly payment we included the £54.86 credit.
- Please turn over for details of how we've worked out your charges and energy review.

Your statement is based on an actual reading

- We've reviewed your energy reduction for the last year. Sorry, you've not achieved 10% minimum reduction required to get a reward. For tips on how to reduce your energy use, please visit www.southern-electric.co.uk
- Remember to send us your readings regularly, we recommend every 90 days. You can do this easily:
  Online at www.southern-electric.co.uk or
  Call our 24 hour Meterline on 0800 220 995.

Your deal

Your tariff
better plan plus 2010 Economy 7

Your current monthly payment
£25.00

Your rewards
Monthly Direct Debit Discount 6%

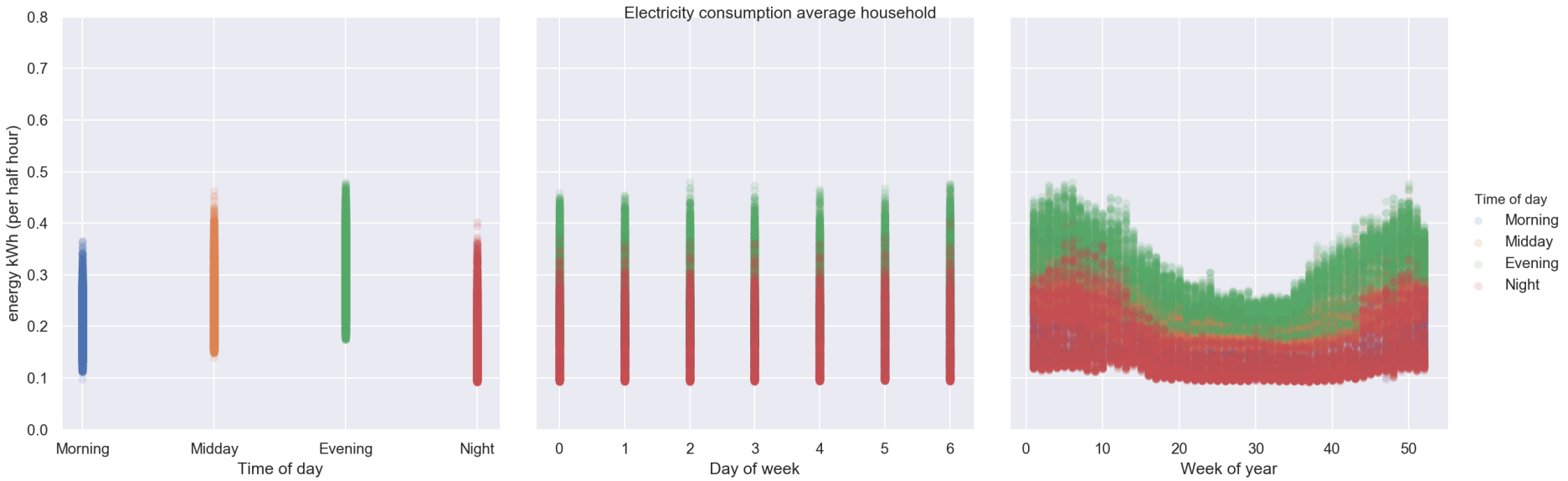
Your Electricity Supply Number
S 00 000 000
00 0000 0000 000

Get Ice points with betterplan.

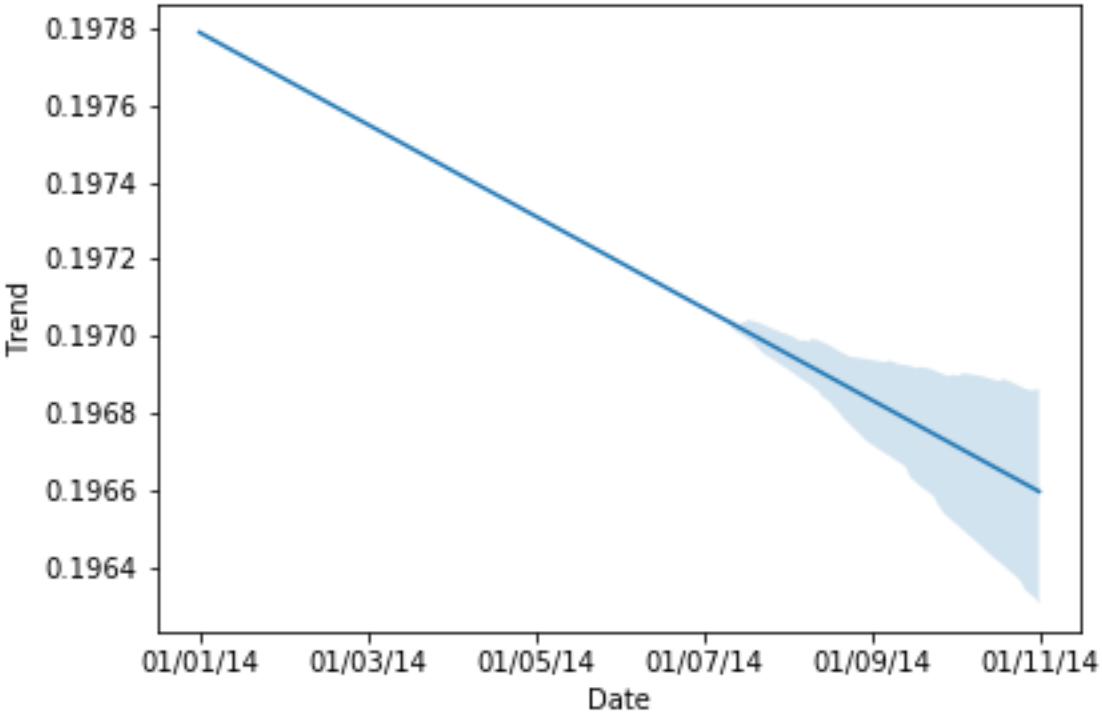
Ice is a generous, flexible rewards scheme and as a betterplan customer, you can get Ice points for FREE, to spend on a wide range of fantastic products and services.

To claim your free Ice points, visit www.southern-electric.co.uk/freeice

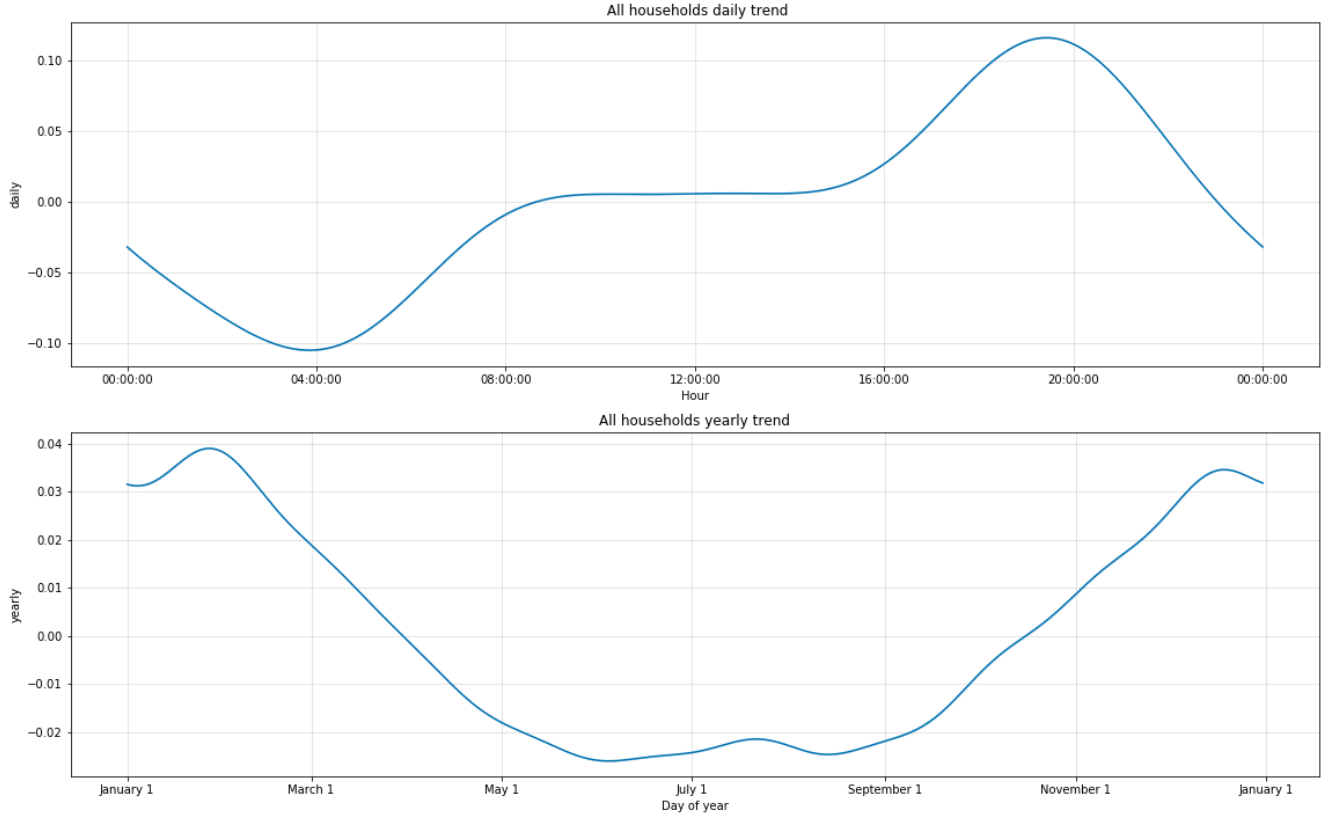
Distribution Electricity Consumption



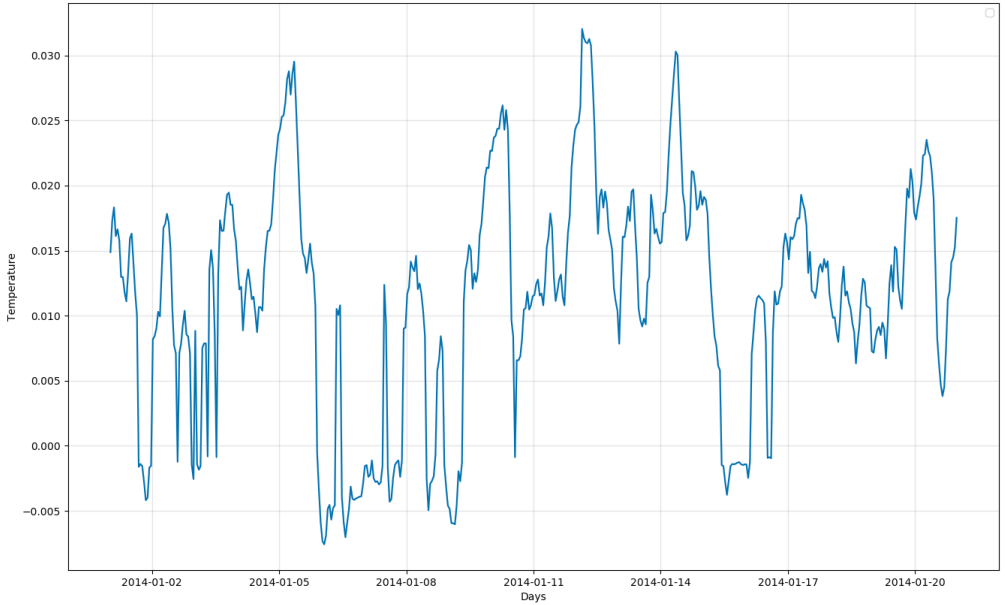
Trend (10 days)



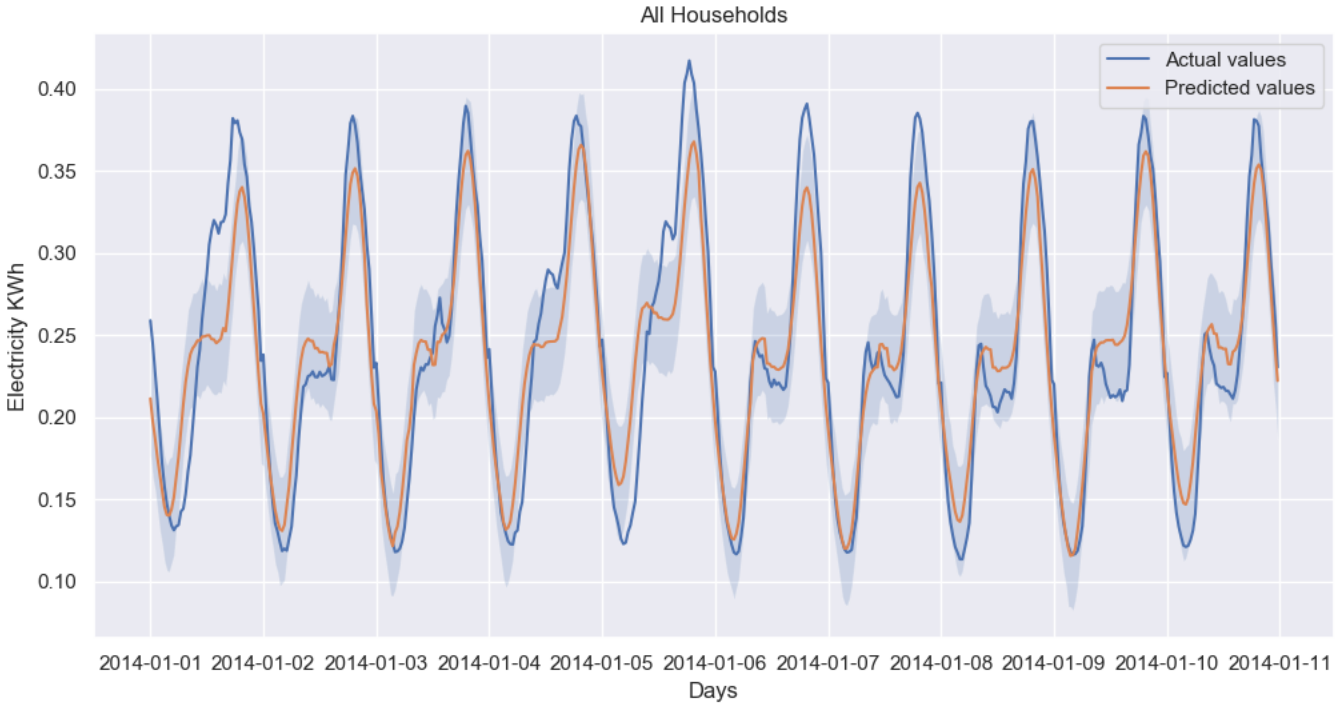
Prediction Components



Temperature Component

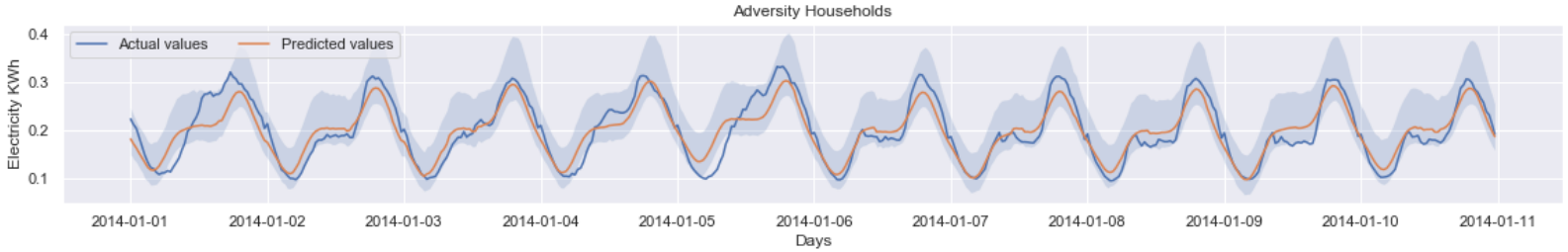


Prediction (10 days)

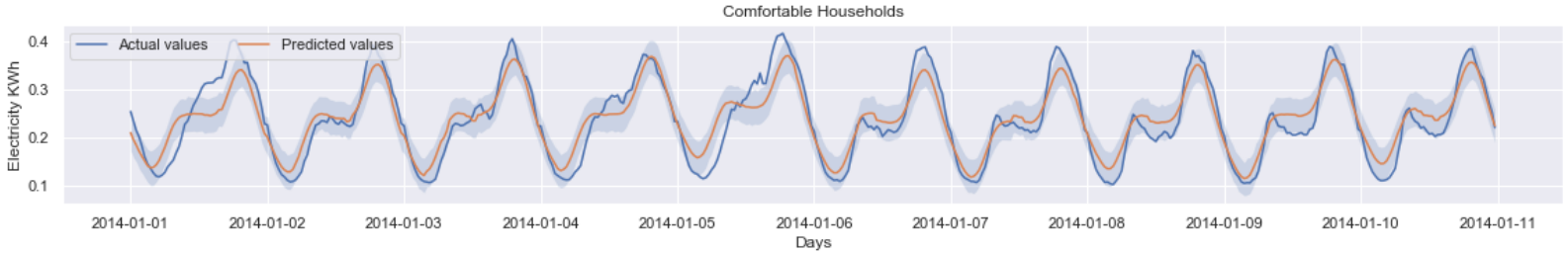


MAE % = 12,3%

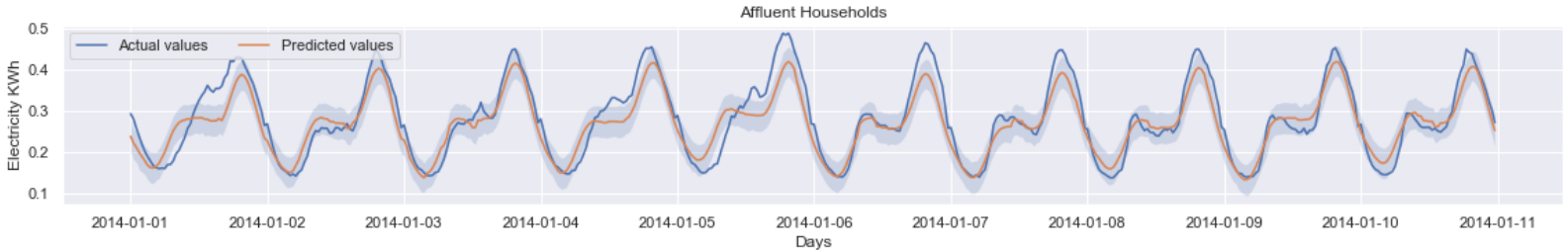
Prediction (10 days)



MAE % = 10,9%



MAE % = 14,8%



MAE % = 13%

Further Analysis

- Explore acorn groups
- Tariff data
- Better prediction

Thanks!

Questions?