Overview of the results of the household CHR37 Single man, 30 - 64 years, with work 0

Calculation Time Freitag, 1. Januar 2016 - Sonntag, 1. Januar 2017

Energy Intensity: Random

Seed 5027

LoadProfileGenerator 5.8.0.16019

by Noah Pflugradt

http://www.loadprofilegenerator.de

Rendering date:16.12.2016 09:21:55

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Totals

Totals for each Loadtype

Load Type	Value	Unit
Cold Water	9212.86	L
Electricity	1446.06	kWh
Warm Water	44055.92	L

Totals for each Loadtype per Day

Load Type	Value	Unit
Cold Water	25.17	L
Electricity	3.95	kWh
Warm Water	120.37	L

Minimum and Maximum for each Loadtype

Household	Minimum	Maximum	Unit
Cold Water	0.00	11.00	L/Min
Electricity	-142.13	7540.16	Watt
Warm Water	0.00	17.50	L/Min

Totals for each Loadtype per Person

Load Type	Value	Unit
Cold Water	9212.86	L
Electricity	1446.06	kWh

Warm Water	44055.92	L
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Totals for each Loadtype per Person per Day

Load Type	Value	Unit
Cold Water	25.17	L
Electricity	3.95	kWh
Warm Water	120.37	L

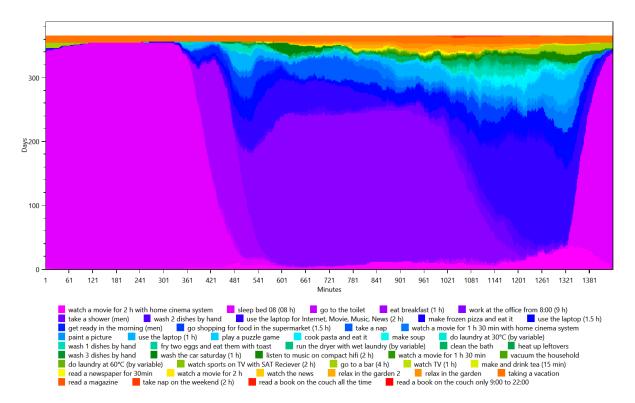
Persons

- HH0
- CHR37 Johannes (48/Male)(48/Male)

Activity Frequency Charts

This is made from the files starting with: ActivityFrequenciesPerMinute

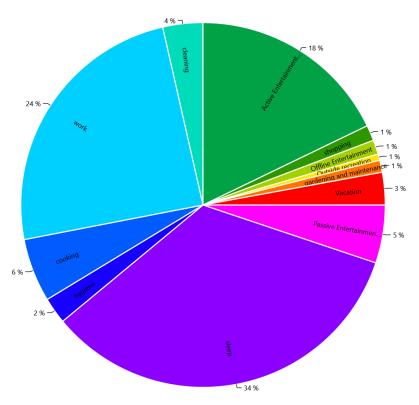
These charts show an ordered distribution of times of the activities of each person. This helps with judging quickly if a person is sleeping correctly and if they are going to work regularly.



Activity Distribution per Person

This is made from the files starting with: ActivityPercentage

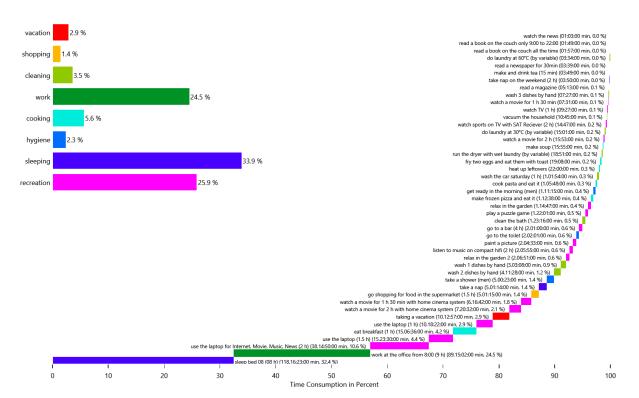
This shows the distribution of the activities, grouped by the affordance Affordance ToCategories.



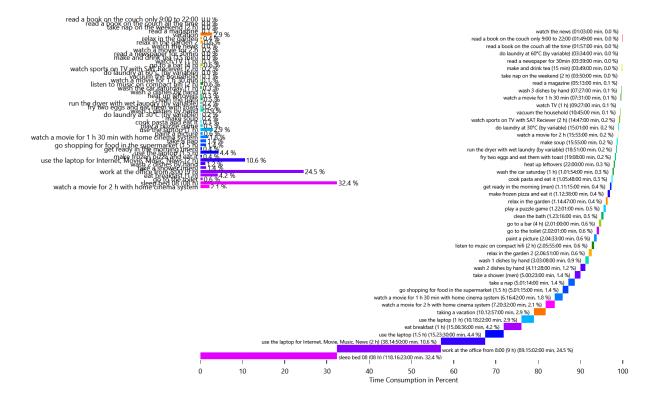
Time Use per Person per Affordance Per Person

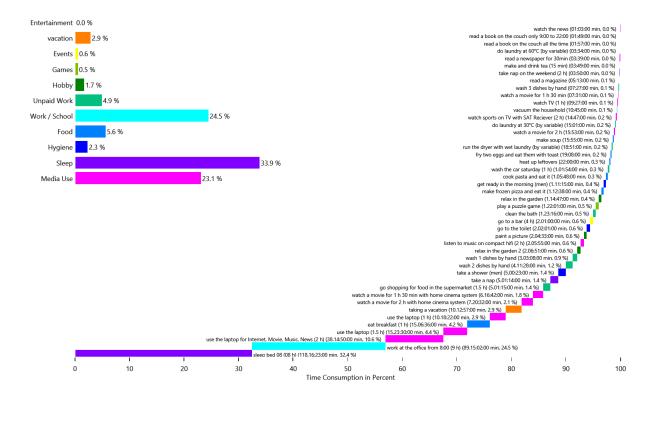
This is made from the files starting with: AffordanceTimeUse

These charts show how the people in the household use their time. This shows the individual affordances to help find problems in the household definition.



HH0 - CHR37 Johannes (48 Male)



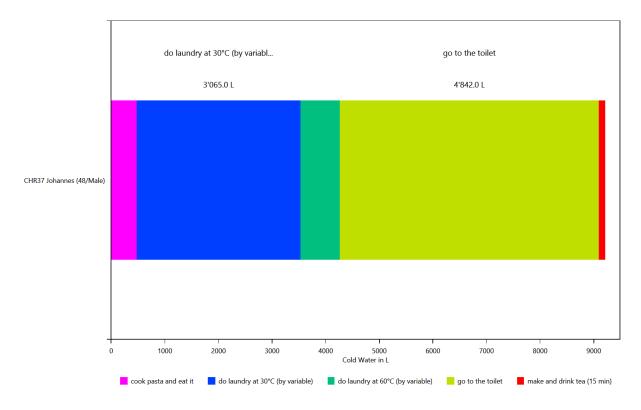


Energy use per person per affordance

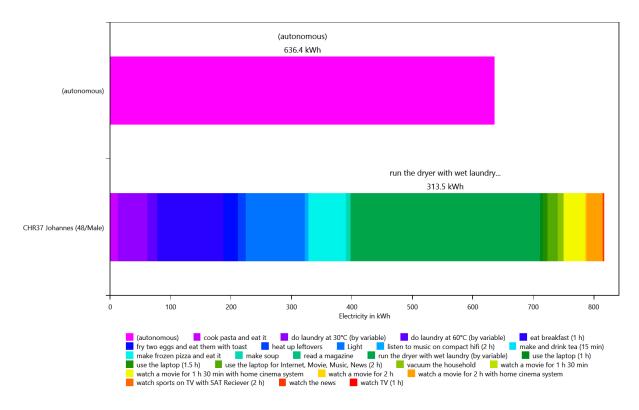
This is made from the files starting with: AffordanceEnergyUsePerPerson

This shows the distribution of the energy/ressource use to each affordance by load type and by person. This helps with figuring out if a person is using too much electricity.

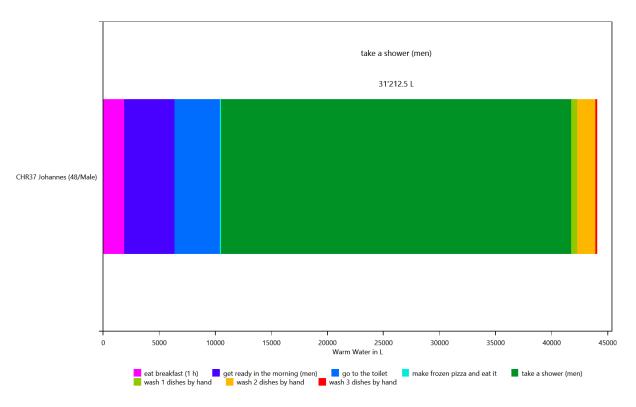
HH0 - Cold Water



HH0 - Electricity



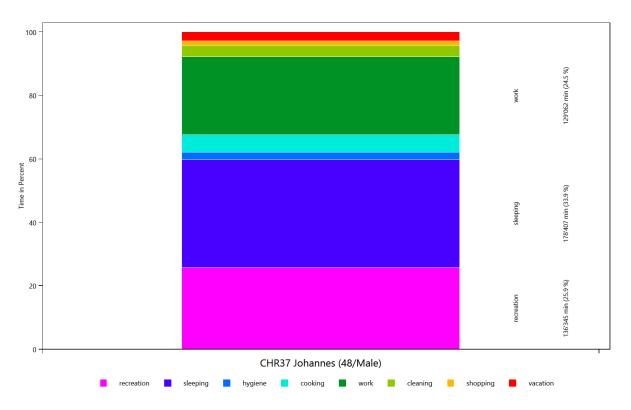
HH0 - Warm Water



Time Use per Person Per Affordance according to different category definitions

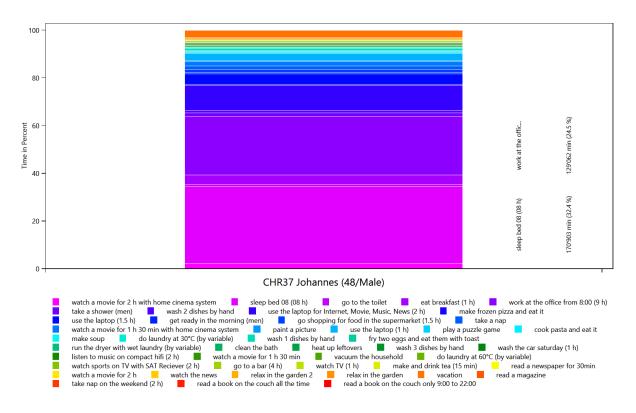
This is made from the files starting with: AffordanceTaggingSet

These charts show how the people in the household use their time. To help with analysis, the activities can be grouped by various criteria. This is done with the affordance tagging sets in the LPG.

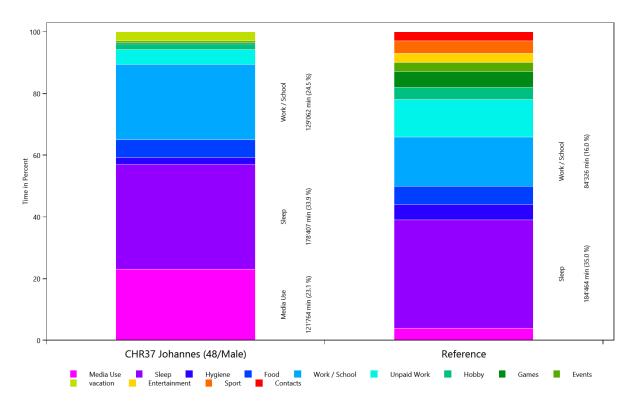


Basic Tagging - HH0

Tagging Set For Planning - HH0



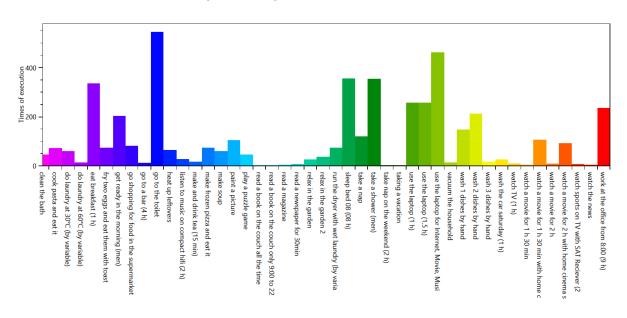
Wo bleibt die Zeit - HH0



Overview of the actions of each member of the household

This is made from the files starting with: ExecutedActionsOverviewCount

These charts show how often each affordance was executed.

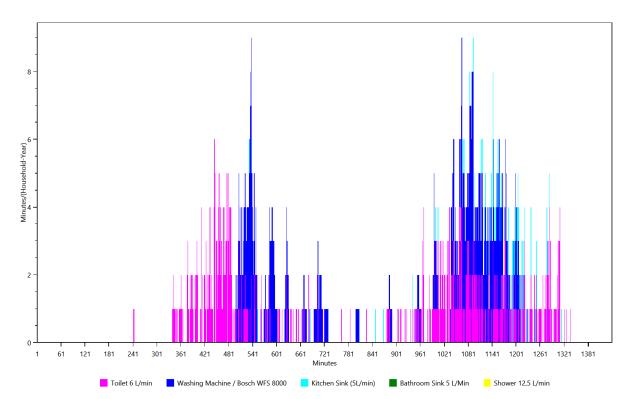


Overview of the time of the use per load type per device

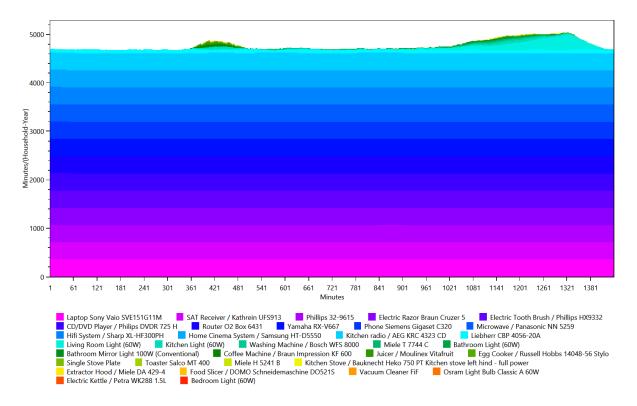
This is made from the files starting with: TimeOfUseEnergyProfiles

The time of use energy profiles shows when each device was used.

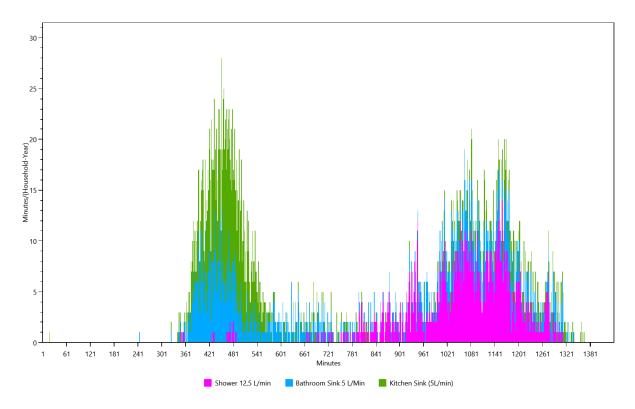
Cold Water



Electricity



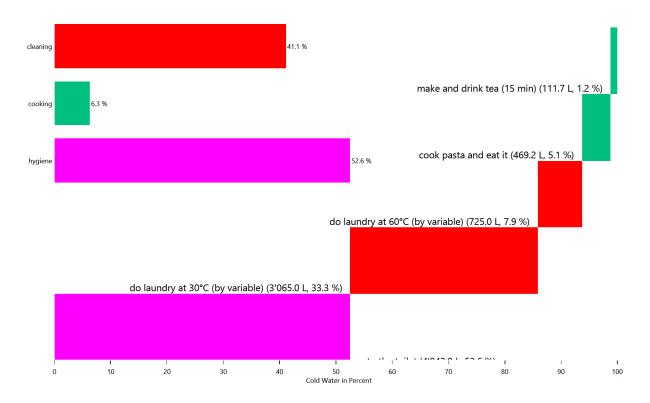
Warm Water



Energy/Resource use distribution per load type per affordance

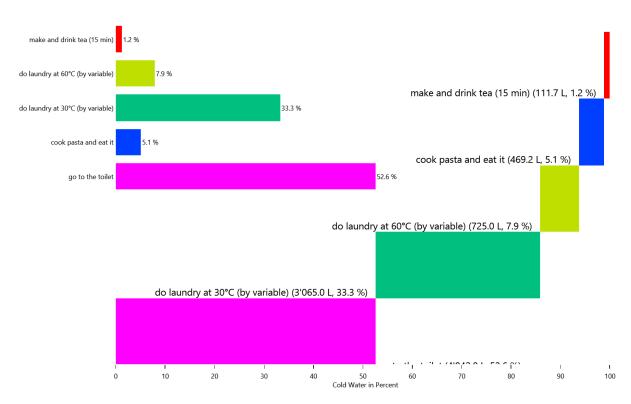
This is made from the files starting with: AffordanceEnergyUse

This shows the distribution of the energy/ressource use to each affordance by load type.

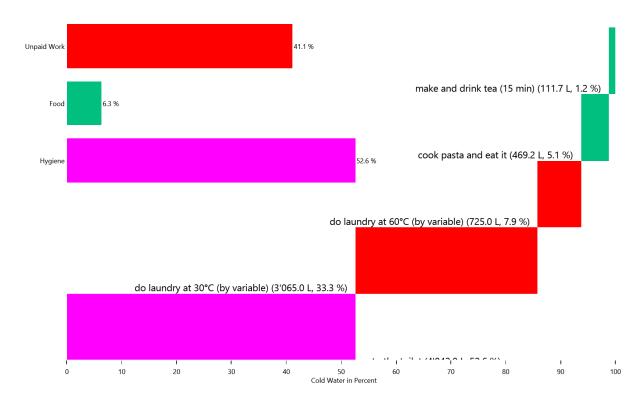


HH0 - Cold Water

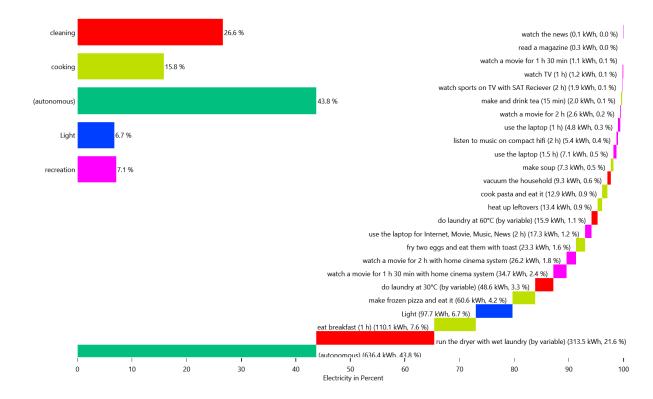
HH0 - Cold Water



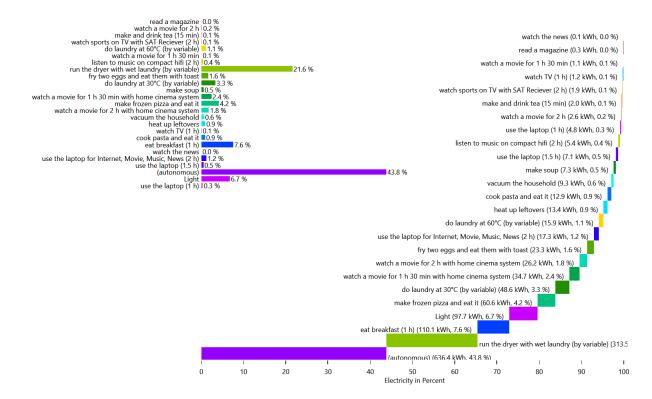




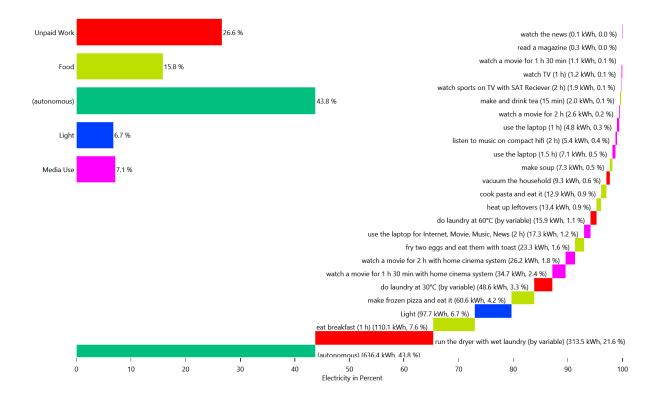
HH0 - Electricity



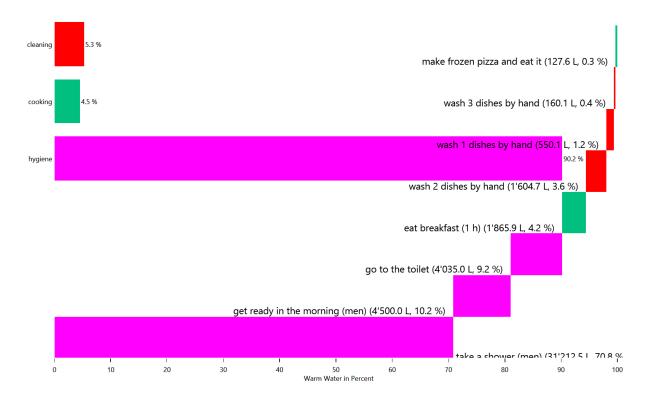
HH0 - Electricity



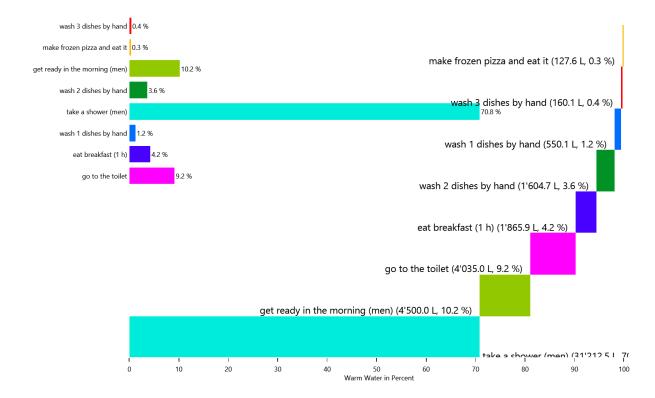
HH0 - Electricity



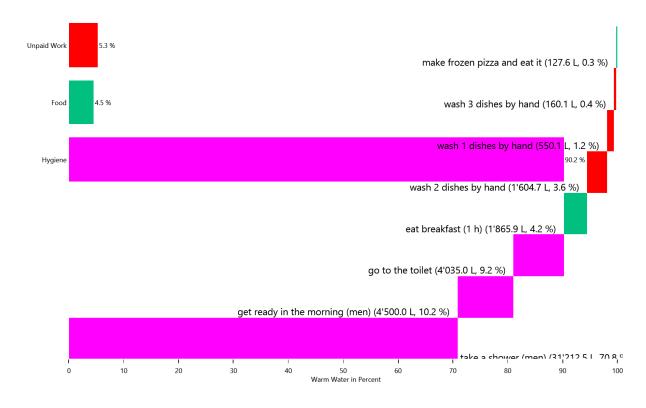




HH0 - Warm Water





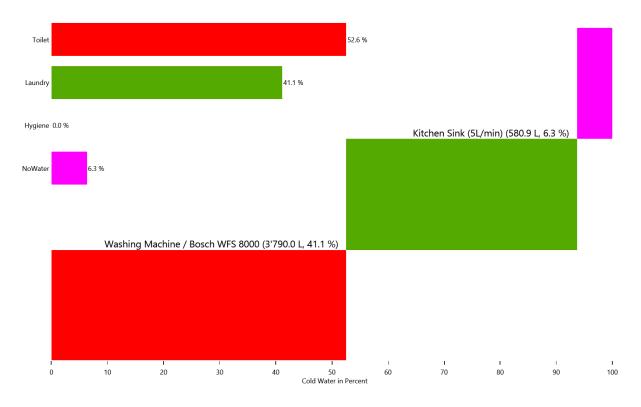


Energy use for each load type for each device

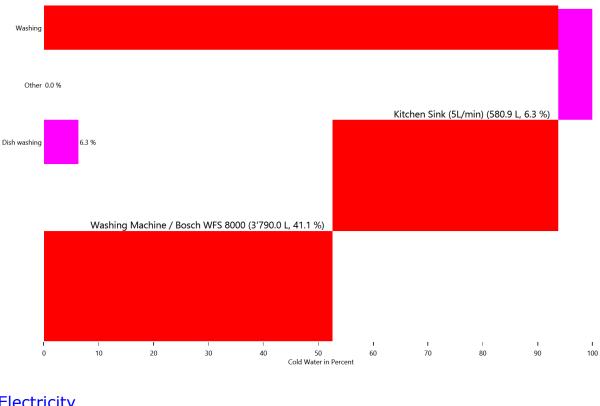
This is made from the files starting with: DeviceSums

These pie charts show the energy use for each invidividual device in each load type.

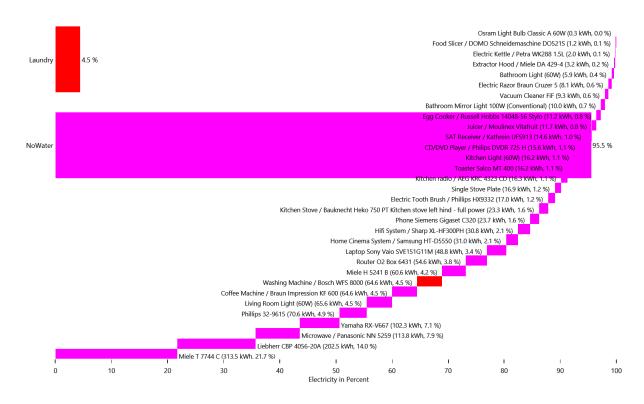
Cold Water



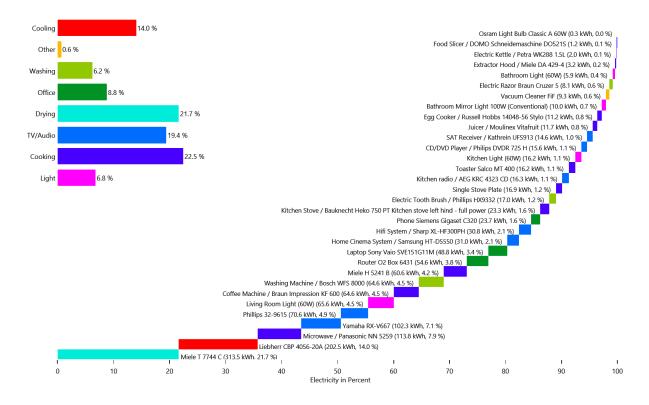
Cold Water



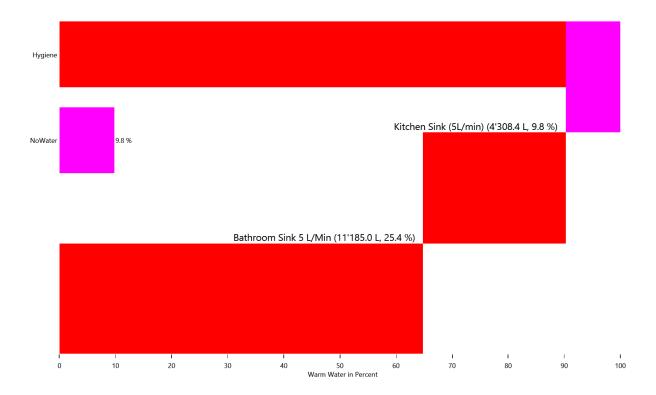
Electricity



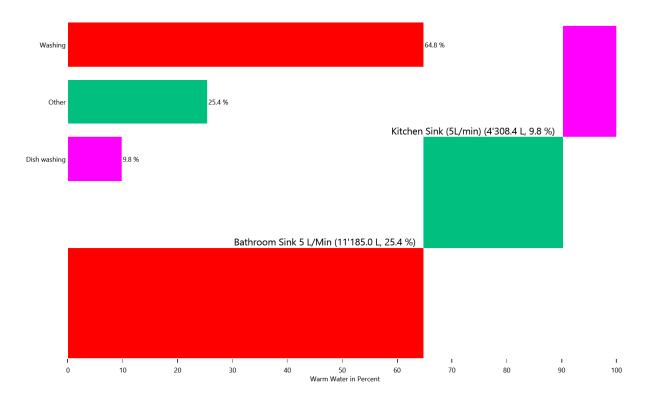
Electricity



Warm Water



Warm Water

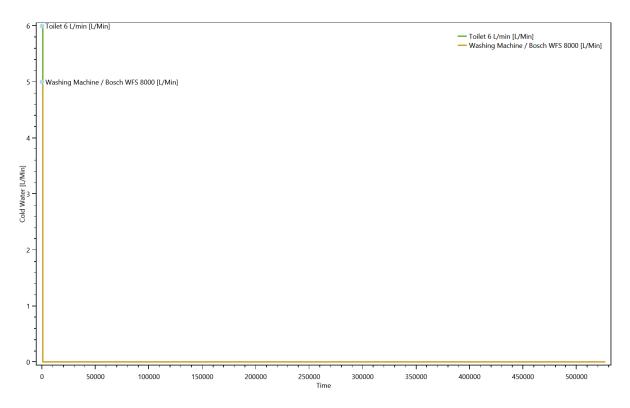


Duration curve for each device for each load type

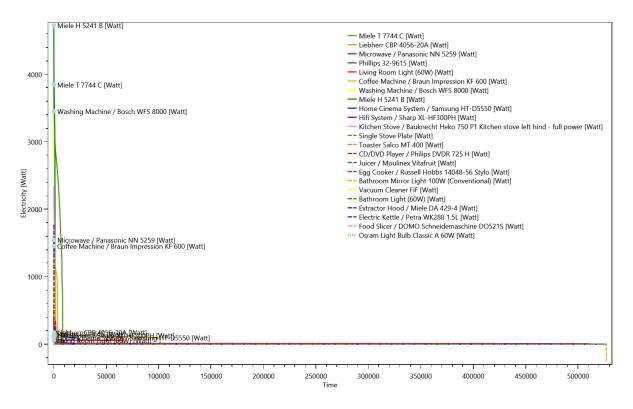
This is made from the files starting with: DeviceDurationCurves

The device duration curve show the duration curve of each device to give an overview of the power consumption.

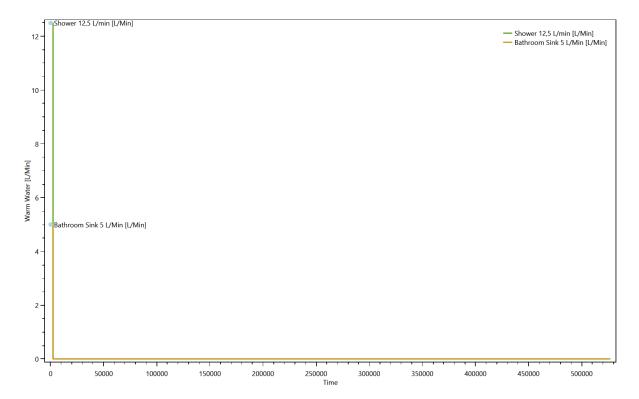
Cold Water



Electricity



Warm Water

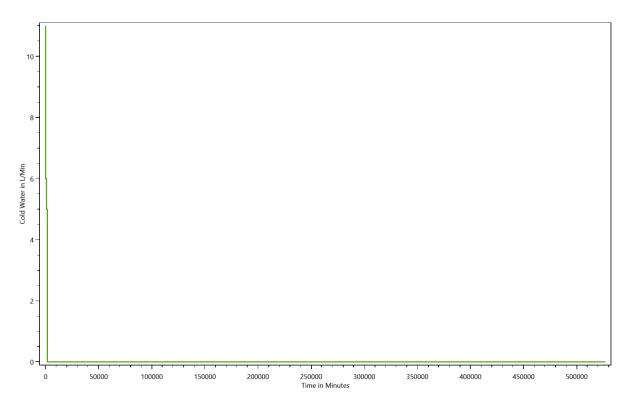


Duration curve for each load type

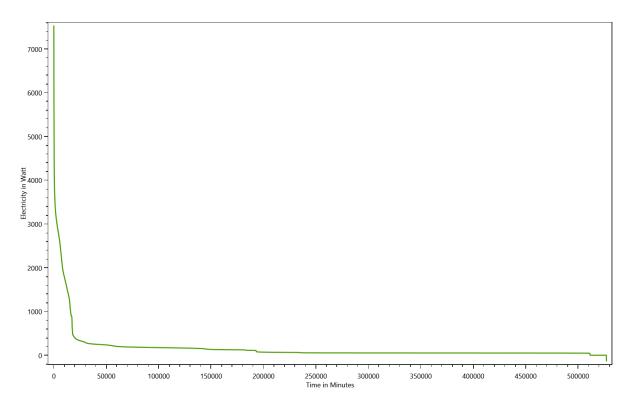
This is made from the files starting with: DurationCurve

The duration curve show the duration curve for the entire household to give an overview of the power consumption.

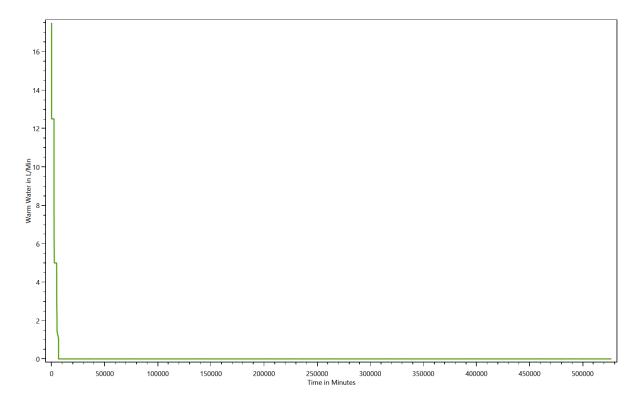
Cold Water



Electricity



Warm Water

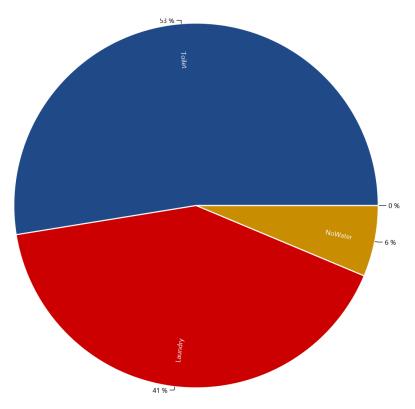


Grouped energy use for each load type for each device

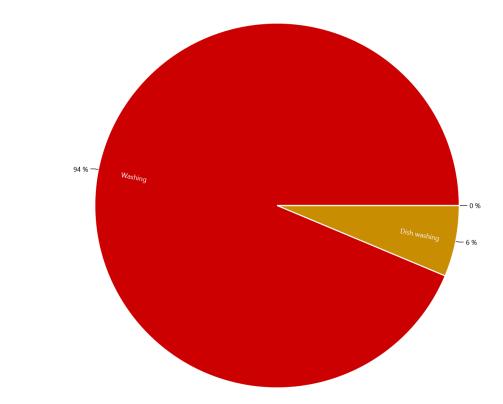
This is made from the files starting with: DeviceTaggingSet

The devices in the LPG can be grouped with various criteria by the device tagging sets. These charts show the results.

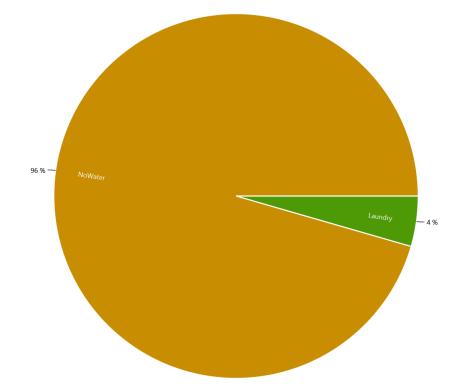
HH0 - Destatis Water Usage Statistics - Cold Water

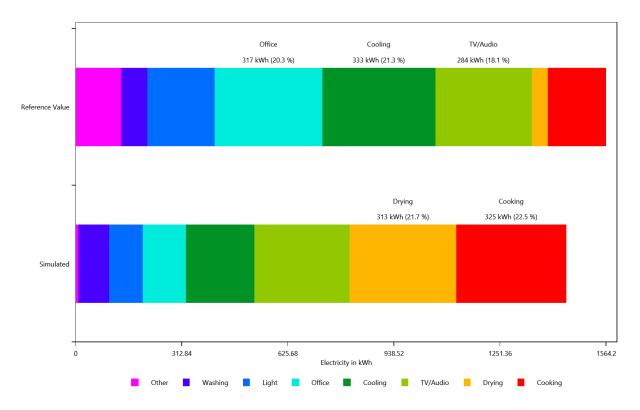


HH0 - Energieagentur - Cold Water



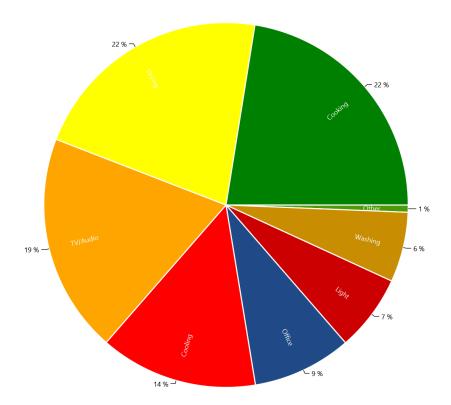
HH0 - Destatis Water Usage Statistics - Electricity



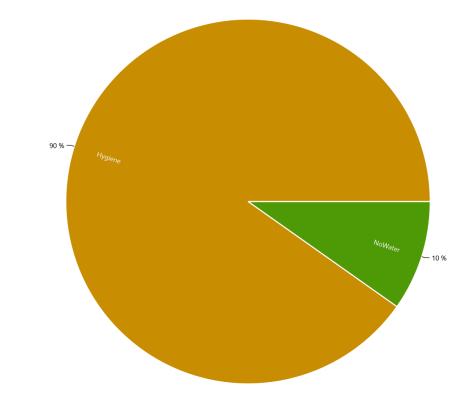


HH0 - Energieagentur - Electricity

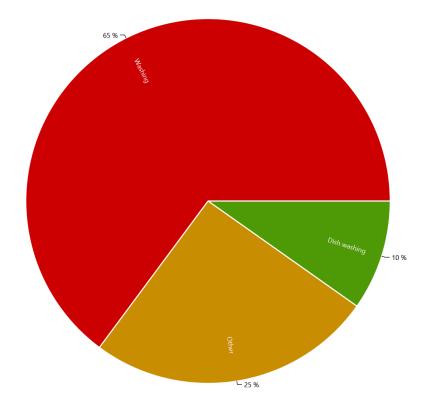
HH0 - Energieagentur - Electricity







HH0 - Energieagentur - Warm Water

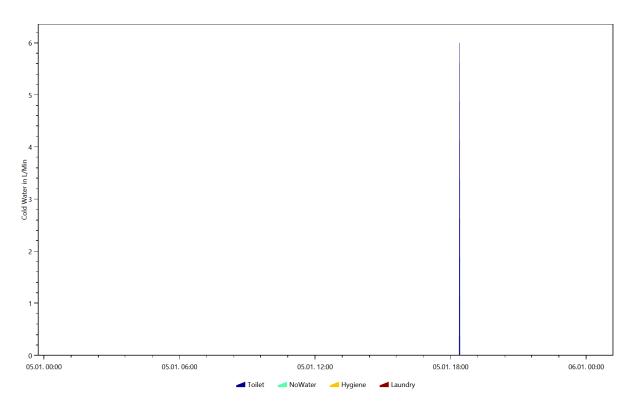


Example of the device profiles for each load type

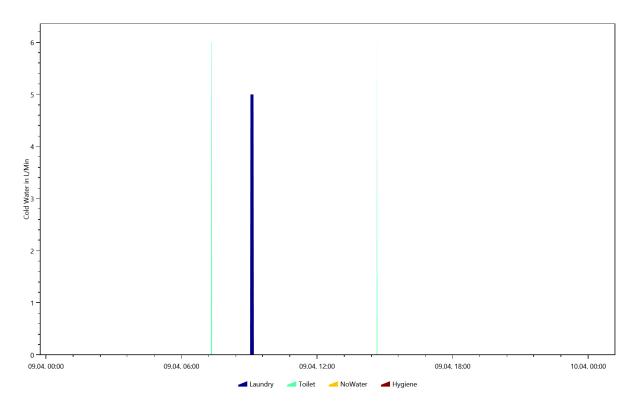
This is made from the files starting with: DeviceProfiles

The device profile files are the reason for the LPG. They show the power consumption of each device.

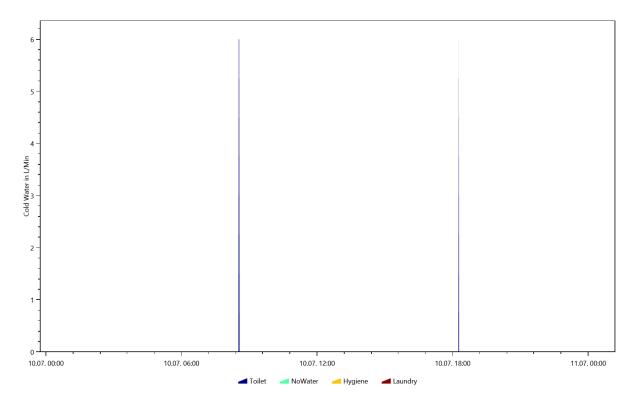
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.1.5



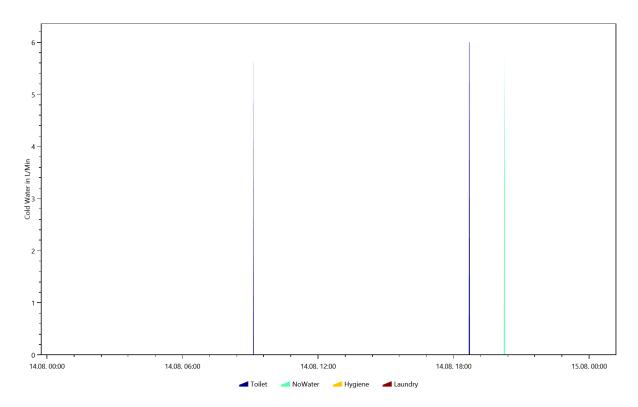
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.4.9



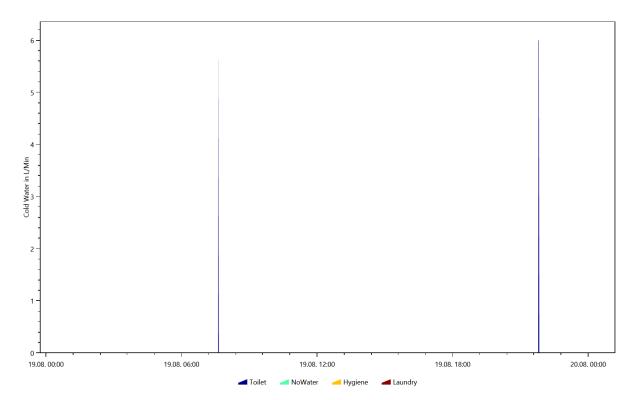
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.7.10

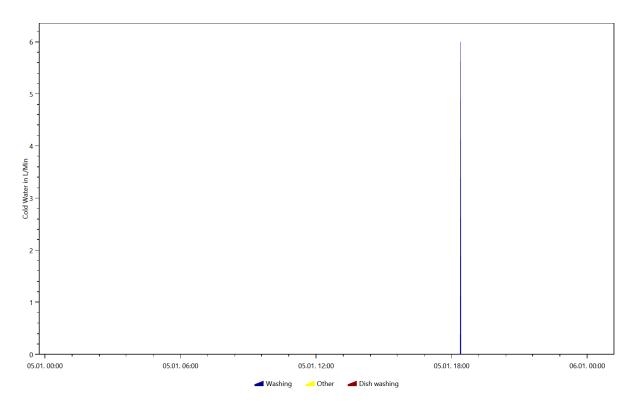


Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.8.14



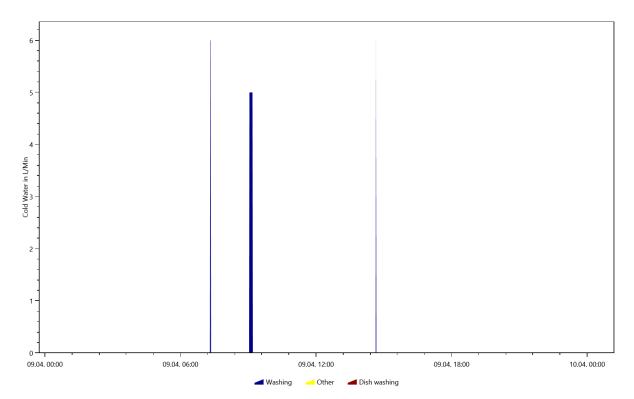
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.8.19



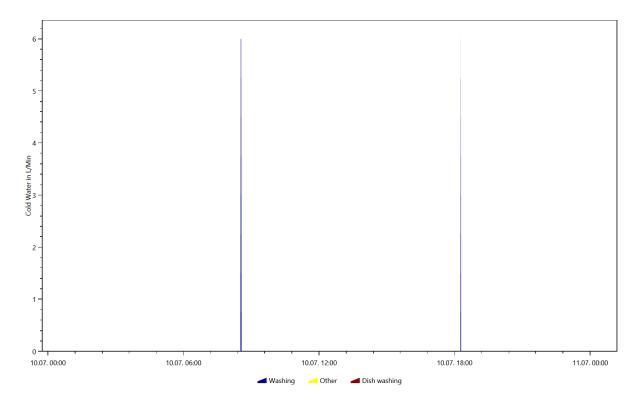


Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.1.5

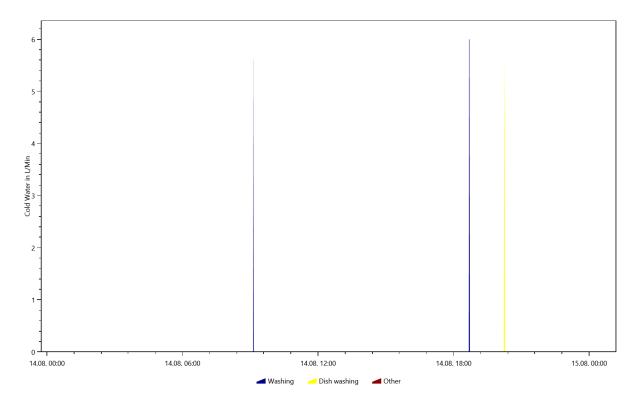
Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.4.9



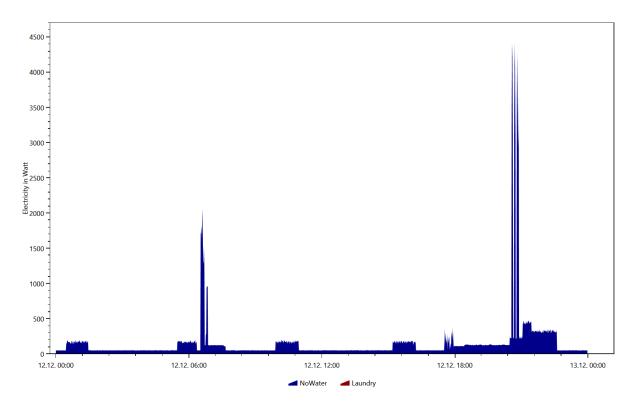




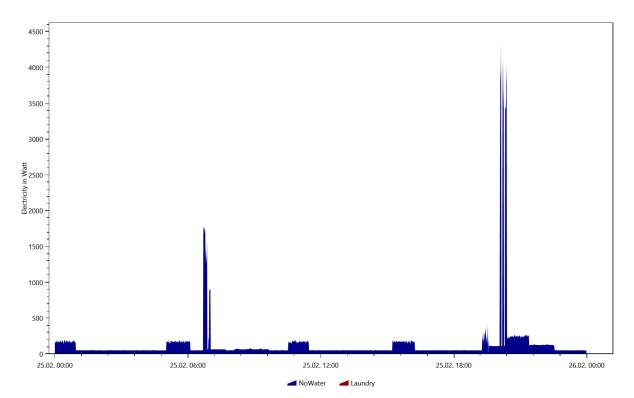
Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.8.14



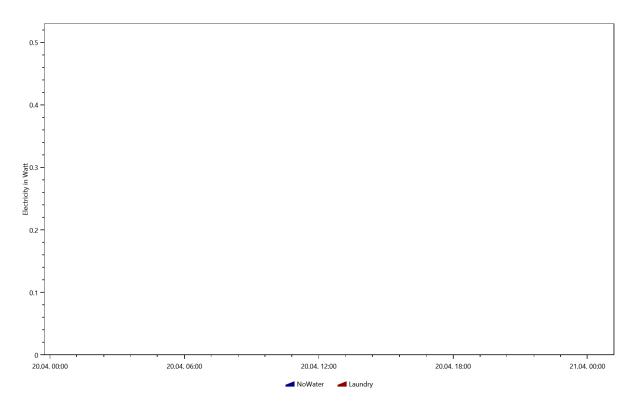
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.12.12



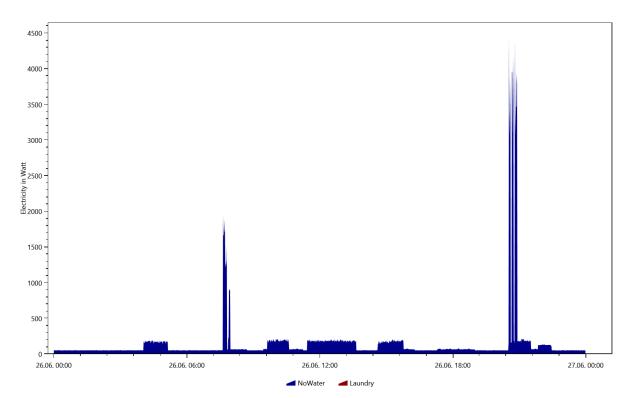
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.2.25



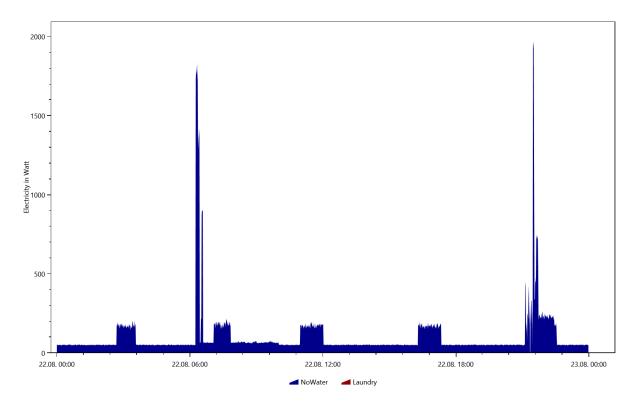
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.4.20



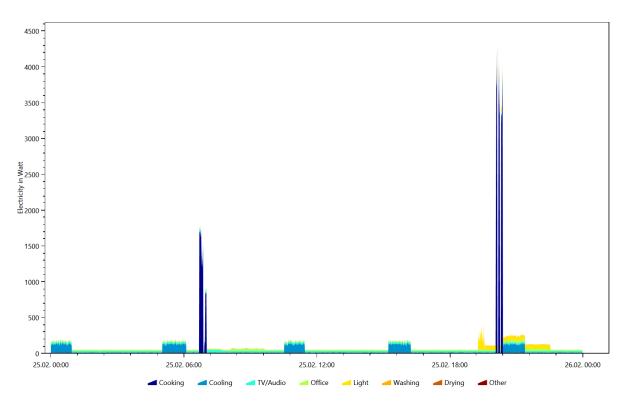
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.6.26

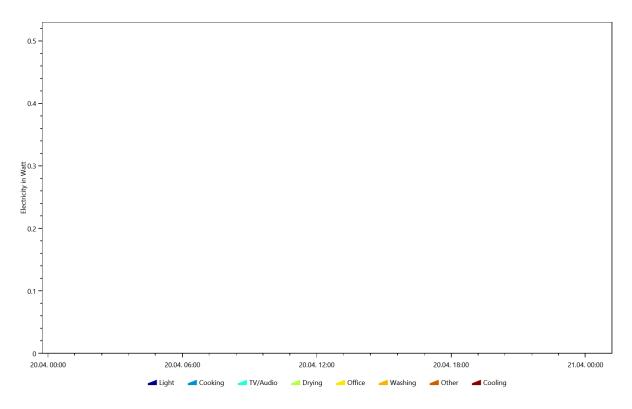


Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.8.22



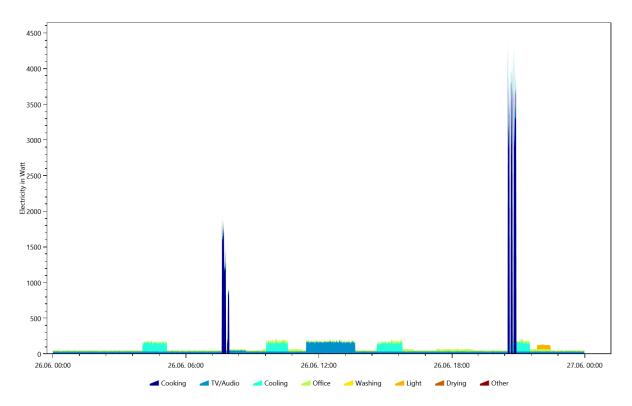
Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.2.25

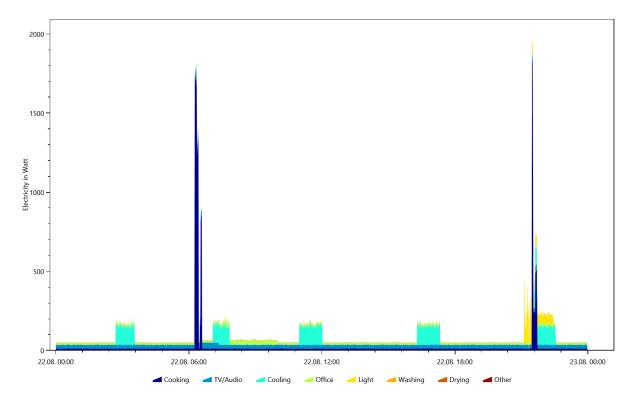




Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.4.20

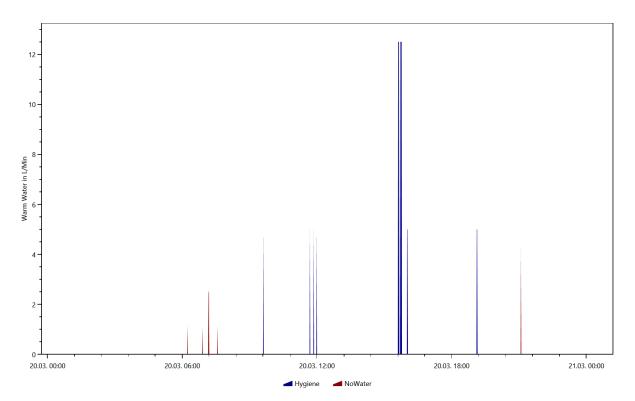
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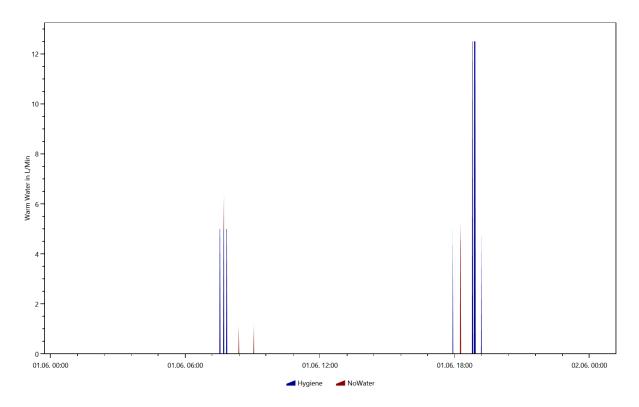


Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.8.22

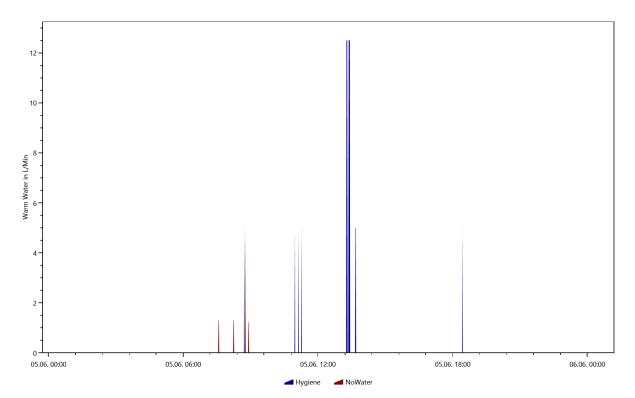
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.3.20



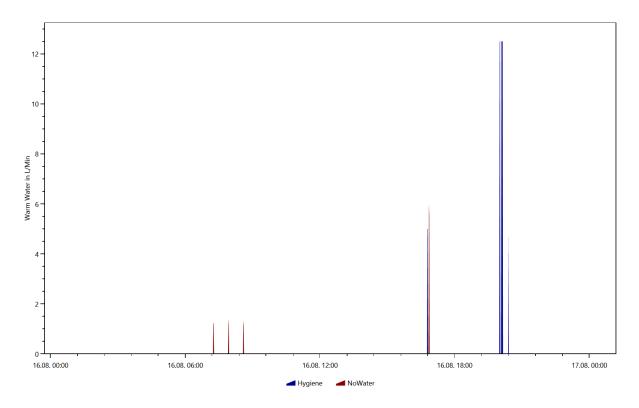
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.6.1



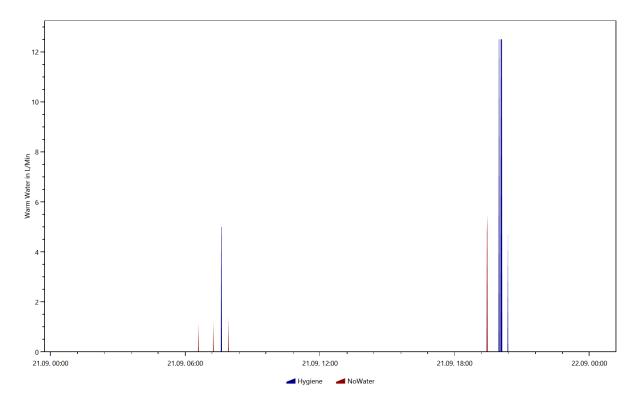
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.6.5



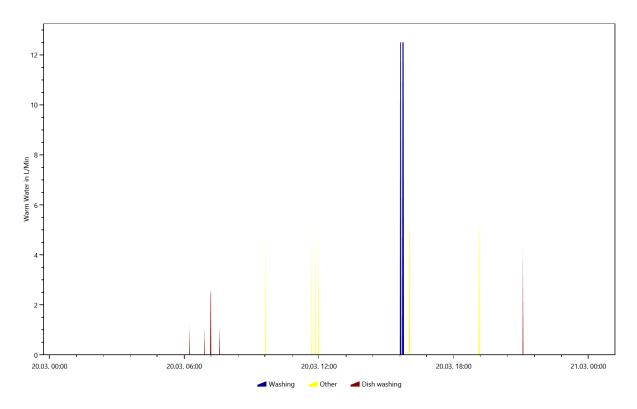
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.8.16



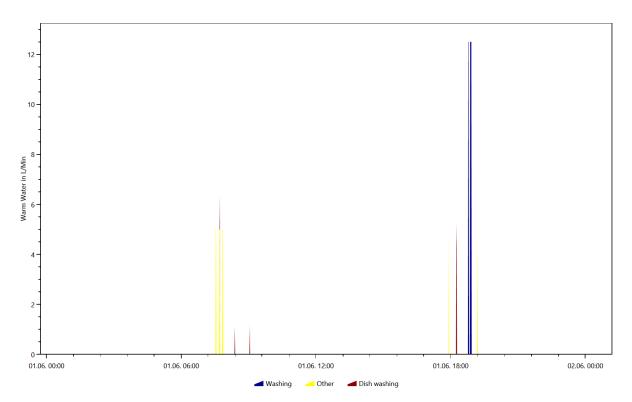
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.9.21

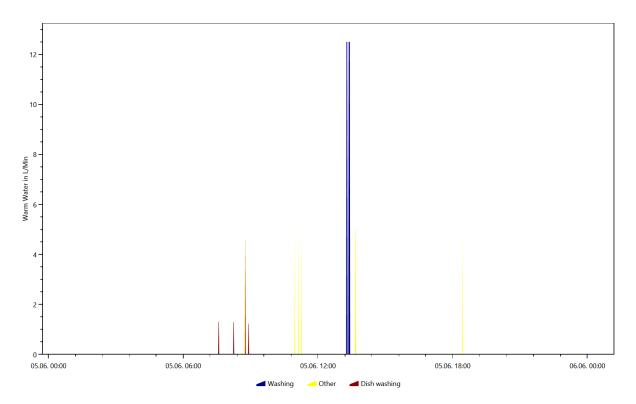


Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.3.20



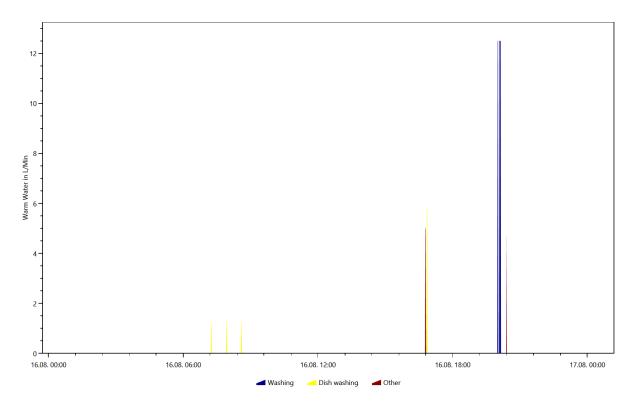
Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.6.1





Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.6.5

Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.8.16

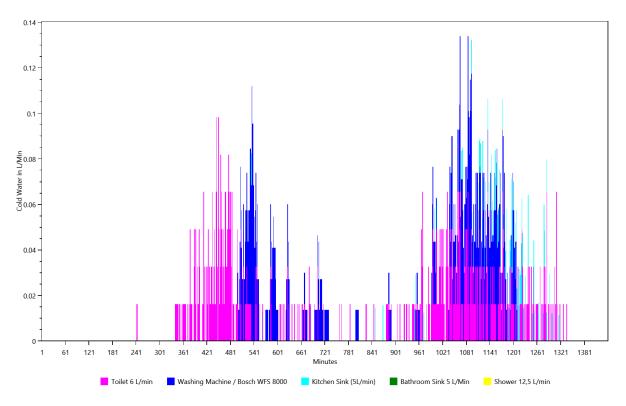


Overview of the time and power of the use per load type per device

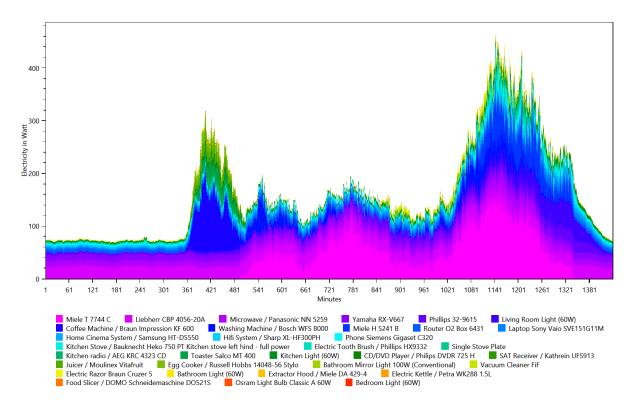
This is made from the files starting with: TimeOfUseEnergyProfiles

The time of use energy profiles show when each device was used and how much power it used.

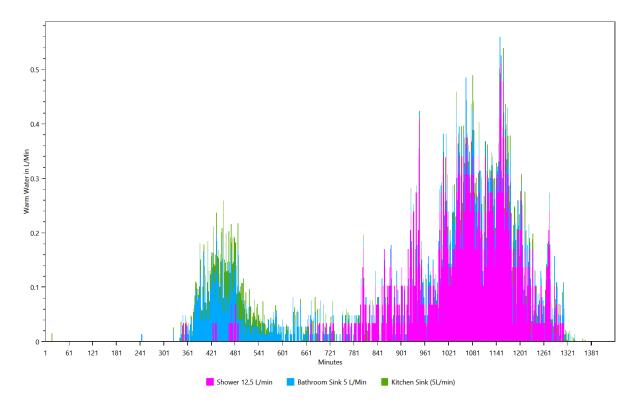
Cold Water



Electricity



Warm Water

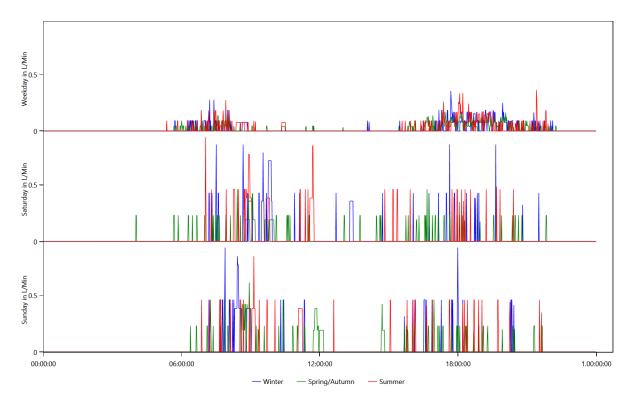


Energy use per load type during different seasons, split by weekday/saturday/sunday

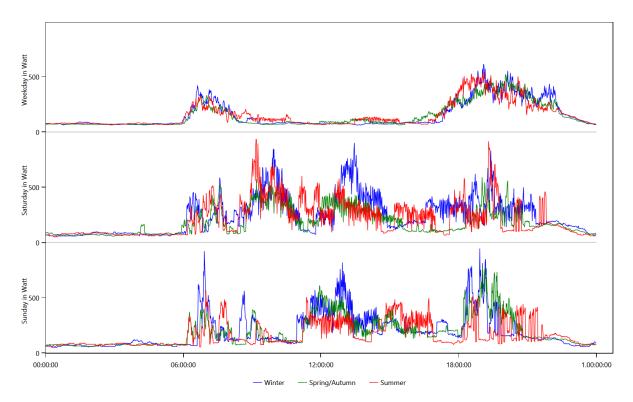
This is made from the files starting with: WeekdayProfiles

This graph shows for each load type the average power consumption per day grouped byseason and weekday/saturday/sunday.

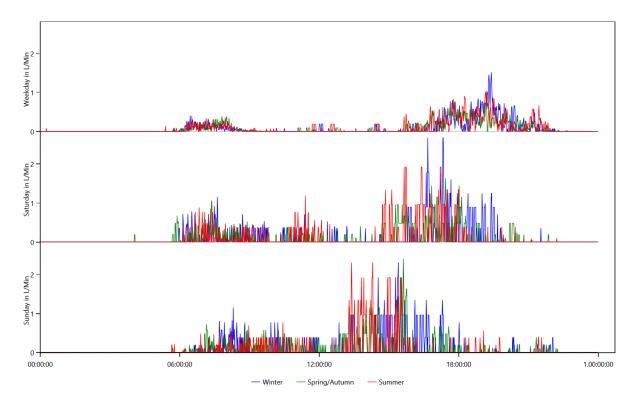
Cold Water



Electricity





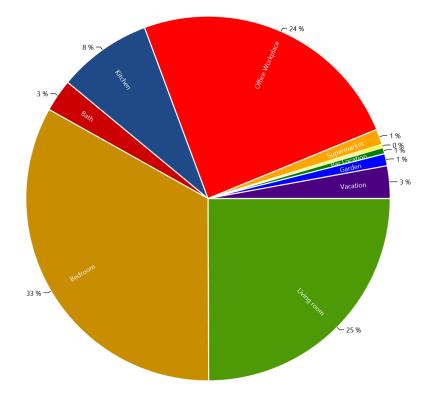


Location Distribution per Person

This is made from the files starting with: LocationStatistics

These charts show where the persons spend their time.

CHR37 Johannes (48 Male)



Actions.csv

This is made from the files starting with: Actions

These files show the actions of each person in the household. The content looks like this:

Actions.HH0.csv

Time step;Calendertime;Person;Selected affordance;Affordance Category;Is Sick

0;01.01.2016 00:00;CHR37 Johannes (48/Male);watch a movie for 2 h with home cinema system;Passive Entertainment (TV etc.);False;

8;01.01.2016 00:08;CHR37 Johannes (48/Male);sleep bed 08 (08 h);sleep;False;

444;01.01.2016 07:24;CHR37 Johannes (48/Male);go to the toilet;hygiene;False;

449;01.01.2016 07:29;CHR37 Johannes (48/Male);eat breakfast (1 h);cooking;False;

507;01.01.2016 08:27;CHR37 Johannes (48/Male);work at the office from 8:00 (9 h);work;False;

1112;01.01.2016 18:32;CHR37 Johannes (48/Male);take a shower (men);hygiene;False;

1131;01.01.2016 18:51;CHR37 Johannes (48/Male);wash 2 dishes by hand;cleaning;False;

1162;01.01.2016 19:22;CHR37 Johannes (48/Male);go to the toilet;hygiene;False;

1168;01.01.2016 19:28;CHR37 Johannes (48/Male);use the laptop for Internet, Movie, Music, News (2 h);Active Entertainment (Computer, Internet etc);False;

1255;01.01.2016 20:55;CHR37 Johannes (48/Male);make frozen pizza and eat it;cooking;False;

1287;01.01.2016 21:27;CHR37 Johannes (48/Male);use the laptop (1.5 h);Active Entertainment (Computer, Internet etc);False;

1374;01.01.2016 22:54;CHR37 Johannes (48/Male);sleep bed 08 (08 h);sleep;False;

1878;02.01.2016 07:18;CHR37 Johannes (48/Male);get ready in the morning (men);hygiene;False;

1889;02.01.2016 07:29;CHR37 Johannes (48/Male);go to the toilet;hygiene;False;

1895;02.01.2016 07:35;CHR37 Johannes (48/Male);eat breakfast (1 h);cooking;False;

1953;02.01.2016 08:33;CHR37 Johannes (48/Male);go shopping for food in the supermarket (1.5 h);shopping;False;

2032;02.01.2016 09:52;CHR37 Johannes (48/Male);use the laptop for Internet, Movie, Music, News (2 h);Active Entertainment (Computer, Internet etc);False;

2132;02.01.2016 11:32;CHR37 Johannes (48/Male);take a nap;sleep;False;

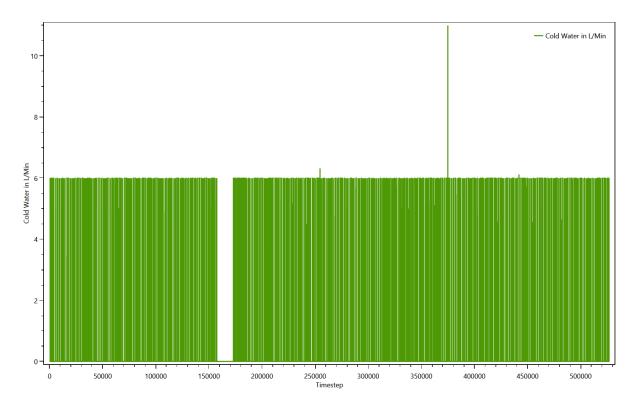
2193;02.01.2016 12:33;CHR37 Johannes (48/Male);wash 2 dishes by hand;cleaning;False;

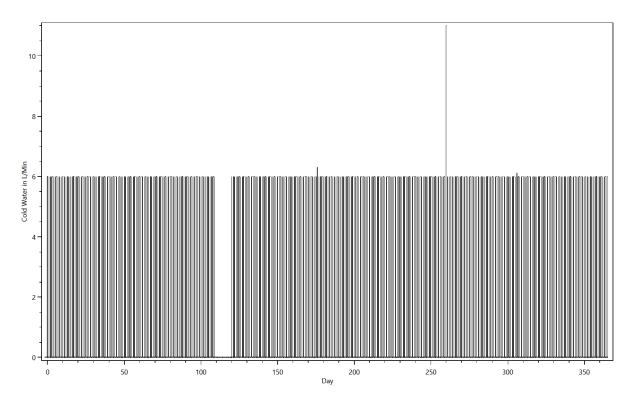
Sum Profiles

This is made from the files starting with: SumProfiles

This shows the energy use during the simulation.

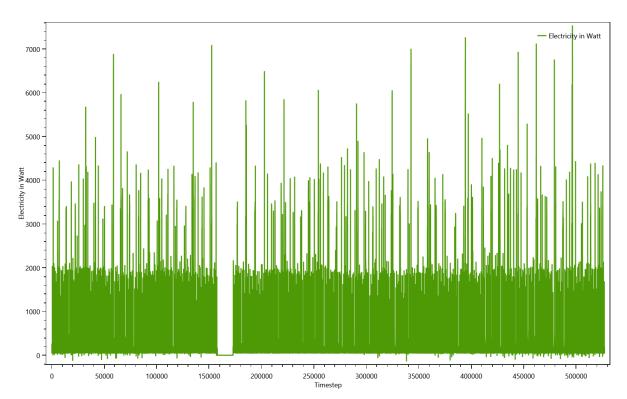
Summed up curve for Cold Water from SumProfiles.Cold Water.png



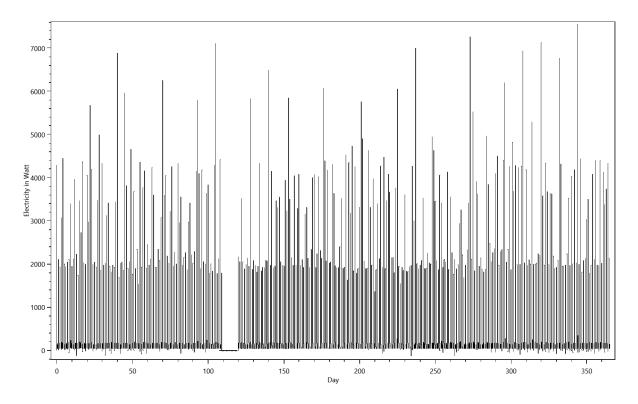


Summed up curve for Cold WaterMinMax from SumProfiles.Cold WaterMinMax..png

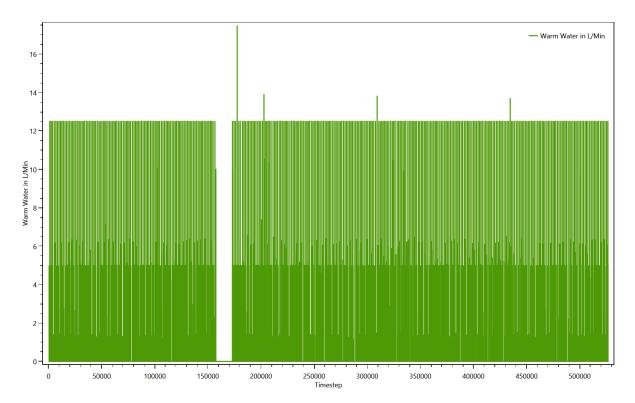


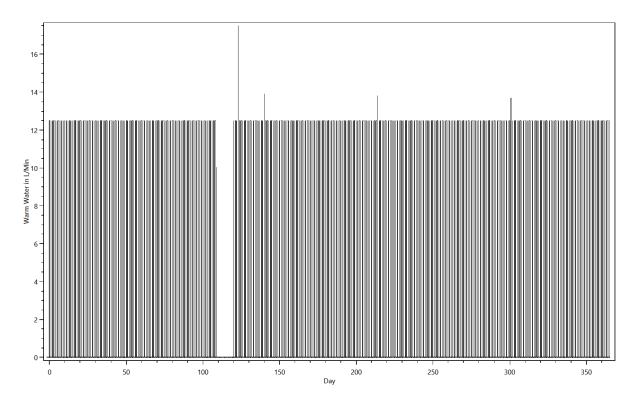


Summed up curve for ElectricityMinMax from SumProfiles.ElectricityMinMax..png









Summed up curve for Warm WaterMinMax from SumProfiles.Warm WaterMinMax..png

Time Profiles

This is made from the files starting with: Time Profiles

These files show which time profiles were used for each device and how often. The content looks like this:

TimeProfiles.HH0.CHR37 Single man, 30 - 64 years, with work 0.txt

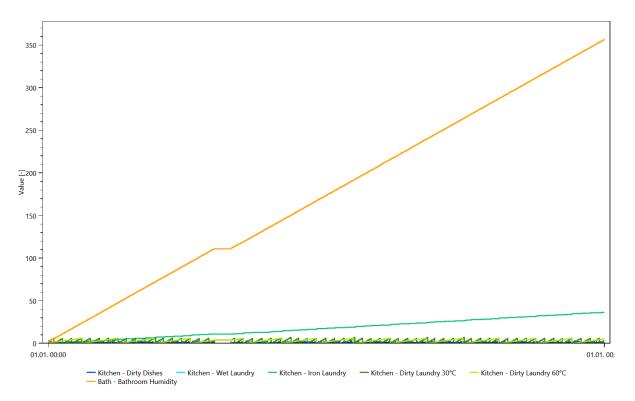
Device:Load Type:Profile:Number of Activations Bar;None;04 h 0 min 100% [Synthetic];12 Bathroom Light (60W); Electricity; Bath - light [Synthetic for Light Device]; 483 Bathroom Mirror Light 100W (Conventional); Electricity; Bath - light [Synthetic for Light Device]; 483 Bathroom Sink 5 L/Min; Warm Water; 0 h 01 min 100% [Synthetic]; 1521 Bed 8;None;08 h 0 min 100% [Synthetic];358 CD/DVD Player / Philips DVDR 725 H;Electricity;01 h 30 min 100% [Synthetic];111 CD/DVD Player / Philips DVDR 725 H;Electricity;02 h 0 min 100% [Synthetic];8 CD/DVD Player / Philips DVDR 725 H;Electricity;Standby TV / Receiver 1 h 0 min 3% [Synthetic];8509 Cleanser;None;01 h 0 min 100% [Synthetic];48 Coffee Machine / Braun Impression KF 600;Electricity;0 h 10 min 100% [Synthetic]:337 Couch;None;01 h 0 min 100% [Synthetic];120 Couch;None;02 h 0 min 100% [Synthetic];4 Desk 2;None;0 h 30 min 100% [Synthetic];104 Egg Cooker / Russell Hobbs 14048-56 Stylo; Electricity; 0 h 05 min 100% [Synthetic]; 337 Electric Kettle / Petra WK288 1.5L;Electricity;Profile for Electric Kettle Petra WK288 1.5L Electricity [Measurement by ZSW (1min)];15 Electric Razor Braun Cruzer 5 Electricity; Profile for Electric Razor Braun Cruzer 5 Electricity [Measurement by ZSW (1min)];6485 Electric Tooth Brush / Phillips HX9332;Electricity;01 h 0 min 100% [Synthetic];8525 Extractor Hood / Miele DA 429-4; Electricity; Cooking profile I 15 min [Synthetic]; 73 Food Slicer / DOMO Schneidemaschine DO521S;Electricity;0 h 01 min 100% [Synthetic];337

Variables

This is made from the files starting with: Variablelogfile

The variables are used to keep track of things like dirty laundry, dirty dishes and the amount of laundry to iron. They are used to ensure that for example the dishwasher is only turned on if there are sufficient dirty dishes. One chart shows the first 25000 timesteps of the contents of all variables, the other shows the entire time span.

Variables



Variables

