Overview of the results of the household CHR11 Student, Female, Philosophy 0

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

Energy Intensity: Random

Seed 4636

LoadProfileGenerator 5.8.0.16019

by Noah Pflugradt

http://www.loadprofilegenerator.de

Rendering date:16.12.2016 09:05:17

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Totals

Totals for each Loadtype

Load Type	Value	Unit
Cold Water	10460.18	L
Electricity	1563.19	kWh
Warm Water	40076.48	L

Totals for each Loadtype per Day

Load Type	Value	Unit
Cold Water	28.58	L
Electricity	4.27	kWh
Warm Water	109.50	L

Minimum and Maximum for each Loadtype

Household	Minimum	Maximum	Unit
Cold Water	0.00	10.00	L/Min
Electricity	1.15	5377.24	Watt
Warm Water	0.00	23.29	L/Min

Totals for each Loadtype per Person

Load Type	Value	Unit
Cold Water	10460.18	L
Electricity	1563.19	kWh

Warm Water	40076.48	L
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Totals for each Loadtype per Person per Day

Load Type	Value	Unit
Cold Water	28.58	L
Electricity	4.27	kWh
Warm Water	109.50	L

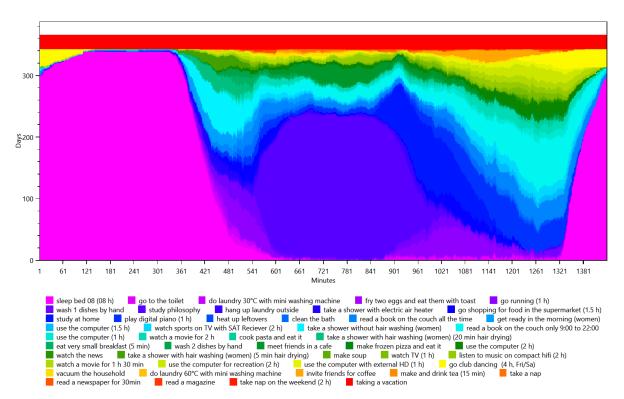
Persons

- HH0
- CHR11 Maddy (23/Female)(23/Female)

Activity Frequency Charts

This is made from the files starting with: ActivityFrequenciesPerMinute

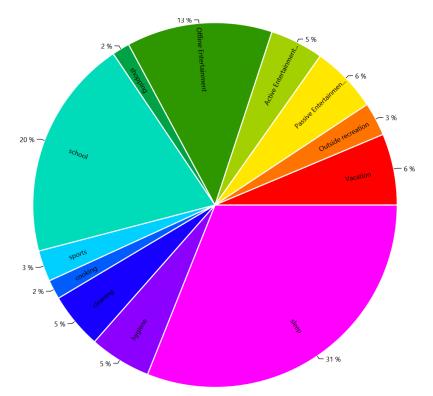
These charts show an ordered distribution of times of the activities of each person. This helps with judging quickly if a person is sleeping correctly and if they are going to work regularly.



Activity Distribution per Person

This is made from the files starting with: ActivityPercentage

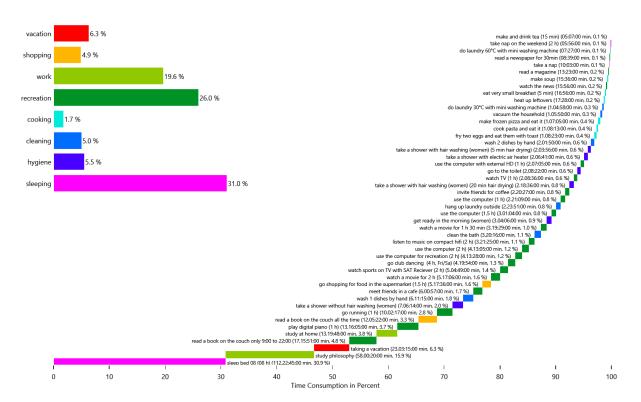
This shows the distribution of the activities, grouped by the affordance Affordance ToCategories.



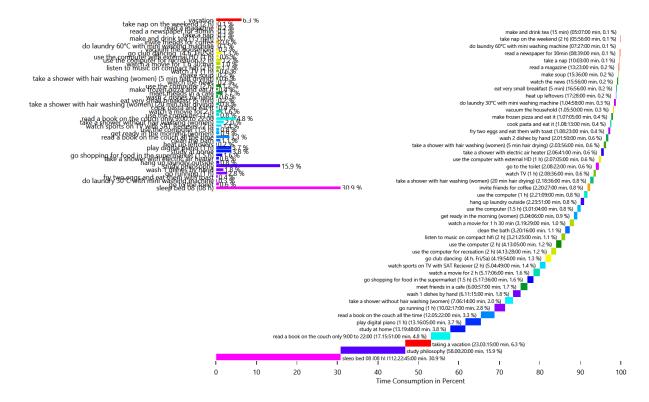
Time Use per Person per Affordance Per Person

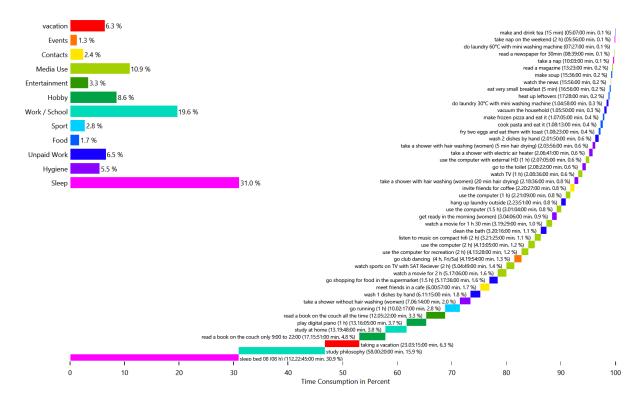
This is made from the files starting with: AffordanceTimeUse

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 - CHR11 Maddy (23 Female)



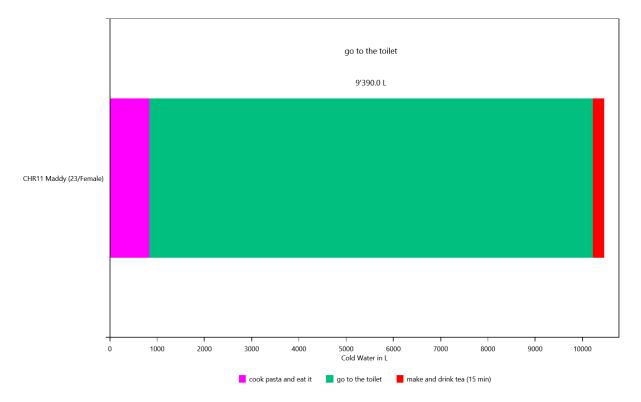


Energy use per person per affordance

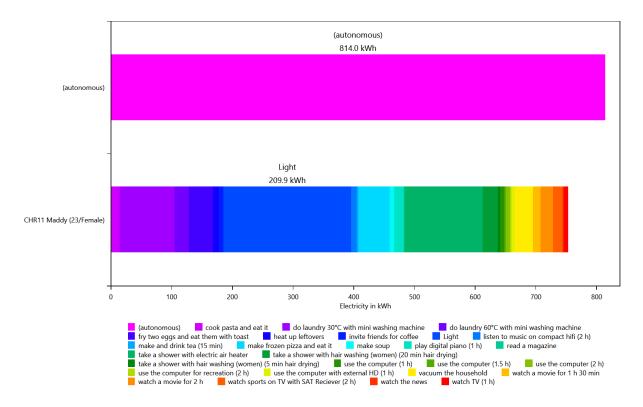
This is made from the files starting with: AffordanceEnergyUsePerPerson

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.

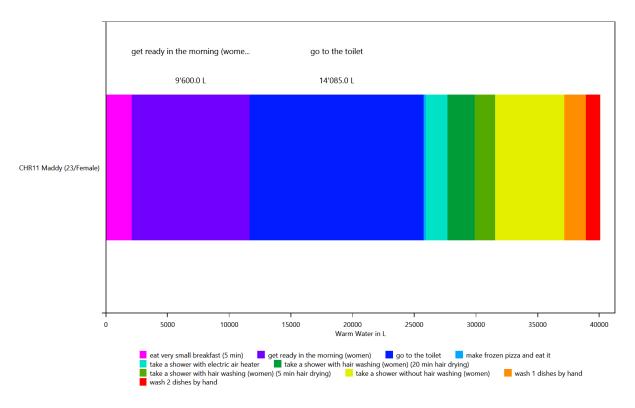




HH0 - Electricity



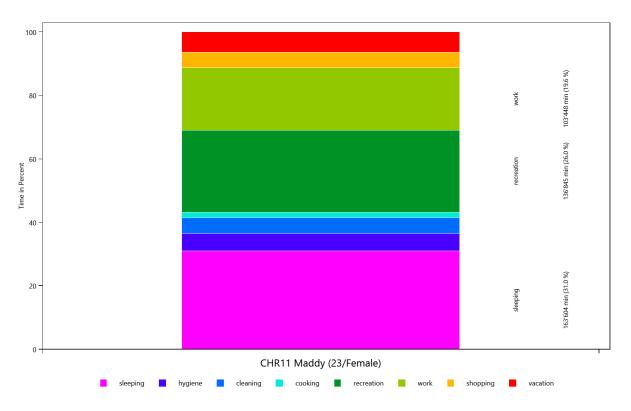
HH0 - Warm Water



Time Use per Person Per Affordance according to different category definitions

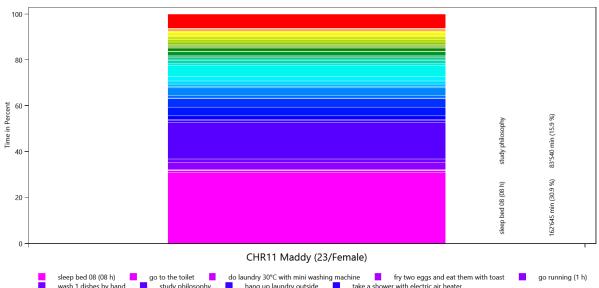
This is made from the files starting with: AffordanceTaggingSet

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.



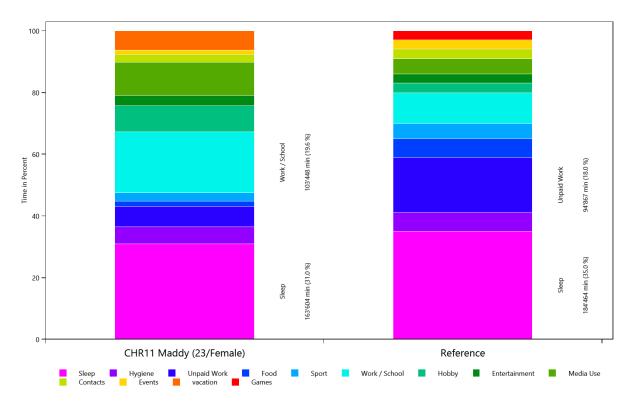
Basic Tagging - HH0







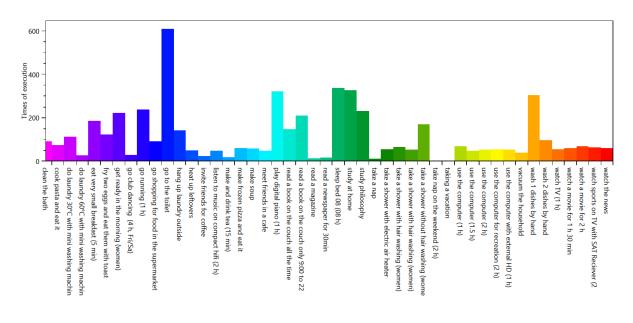
Wo bleibt die Zeit - HHO



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.

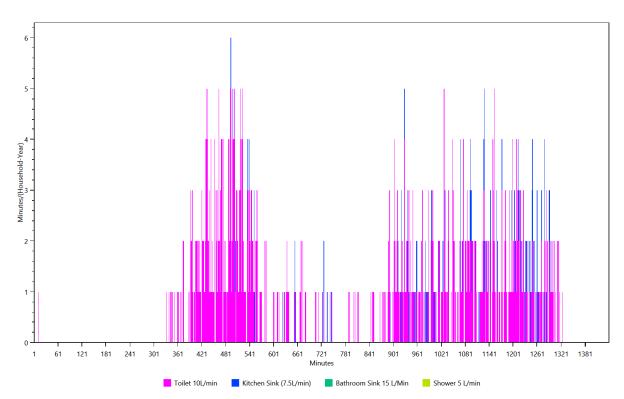


Overview of the time of the use per load type per device

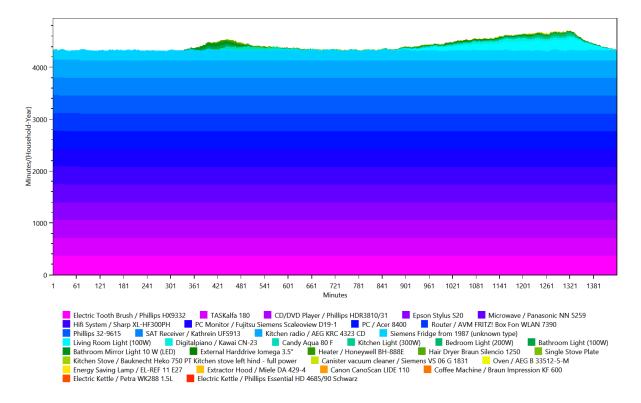
This is made from the files starting with: TimeOfUseEnergyProfiles

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

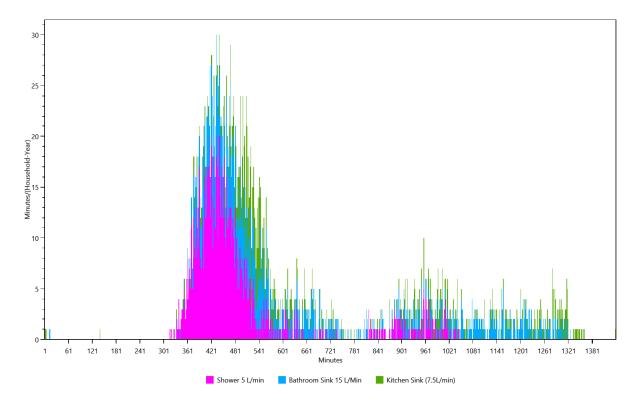
Cold Water



Electricity



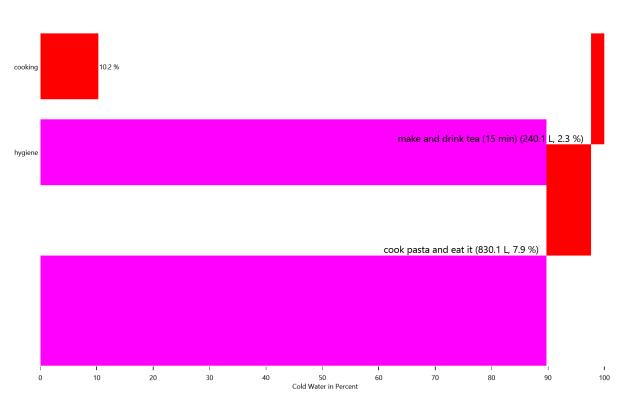
Warm Water



Energy/Resource use distribution per load type per affordance

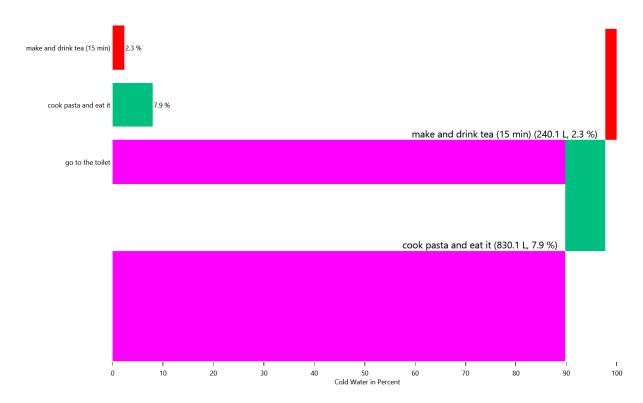
This is made from the files starting with: AffordanceEnergyUse

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

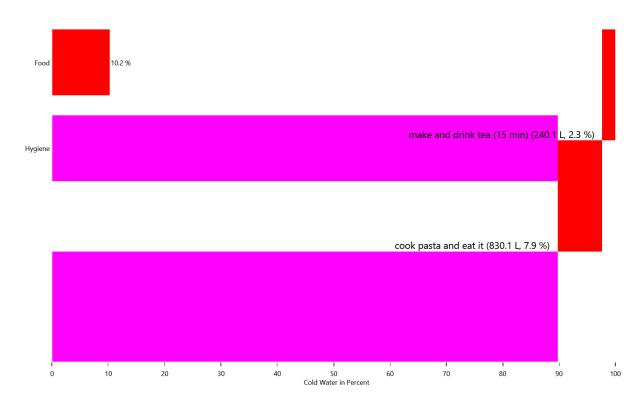


HH0 - Cold Water

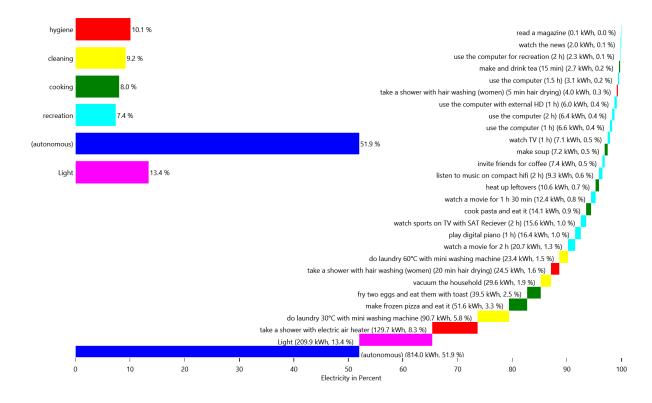
HH0 - Cold Water



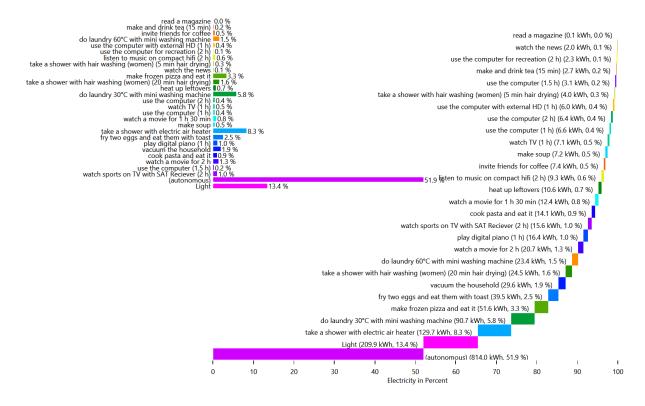




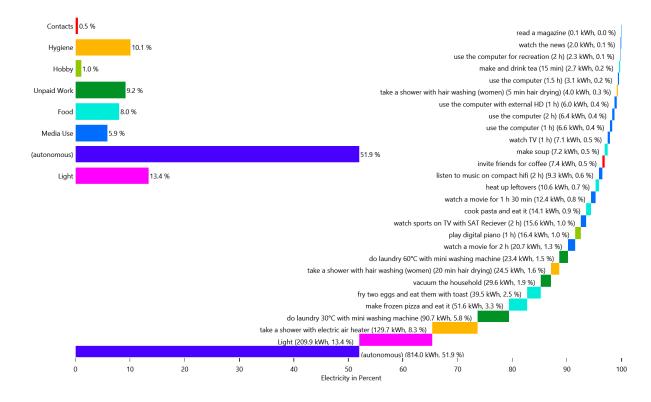
HH0 - Electricity



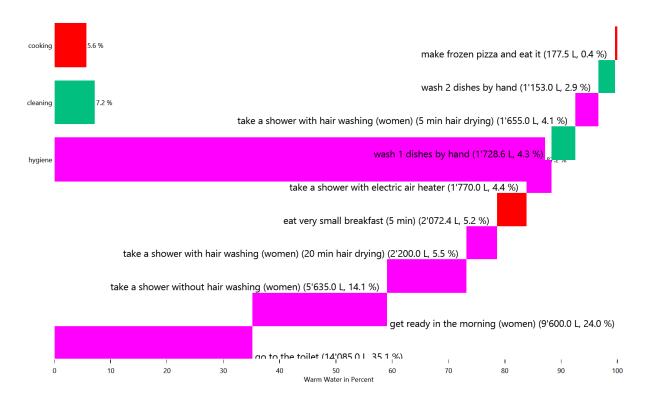
HH0 - Electricity



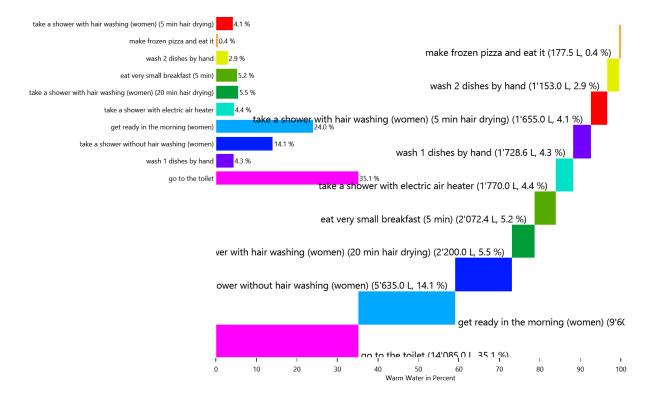
HH0 - Electricity



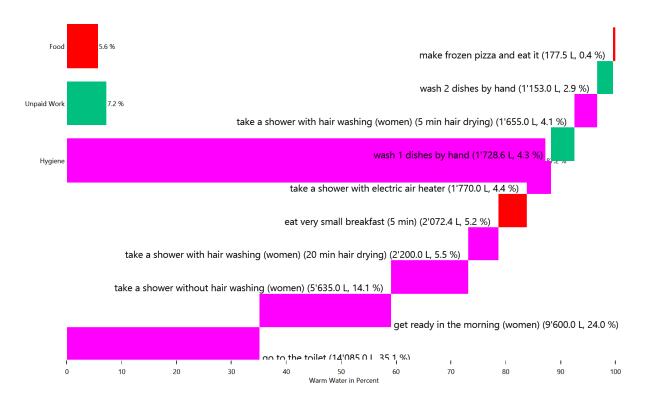




HH0 - Warm Water



HH0 - Warm Water

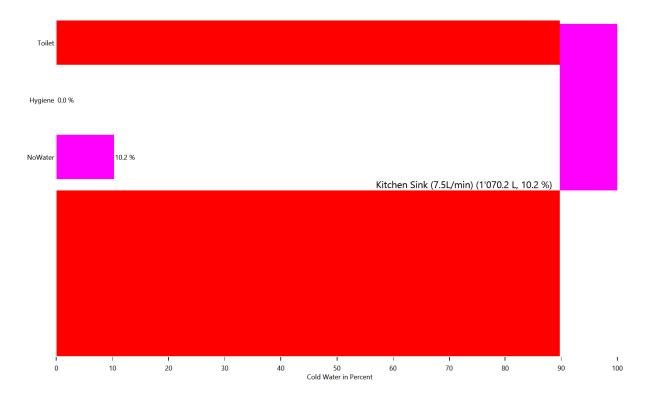


Energy use for each load type for each device

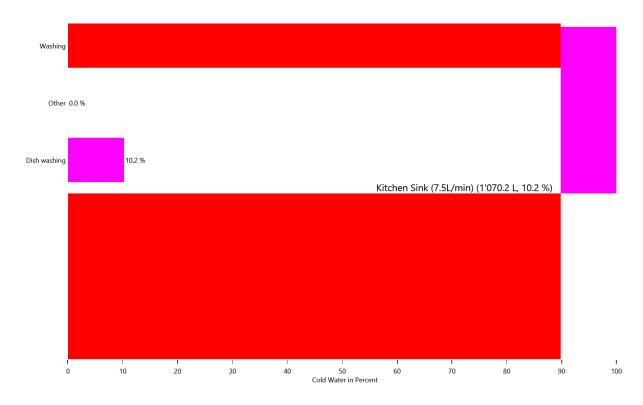
This is made from the files starting with: DeviceSums

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

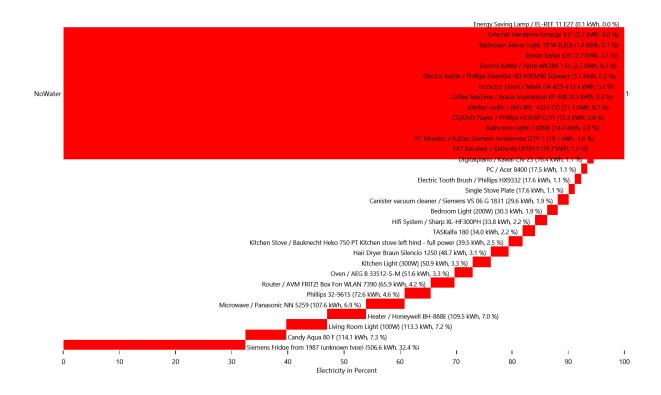
Cold Water



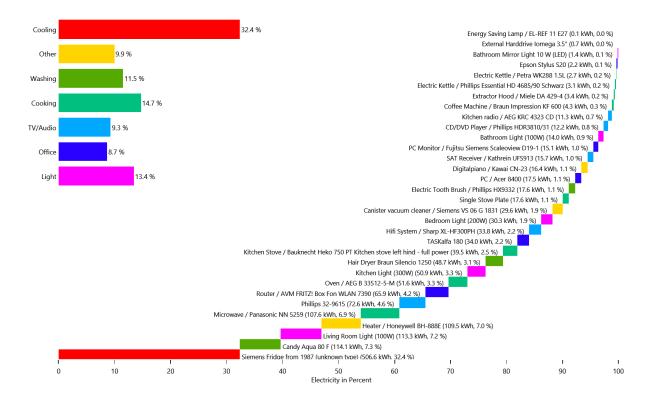
Cold Water



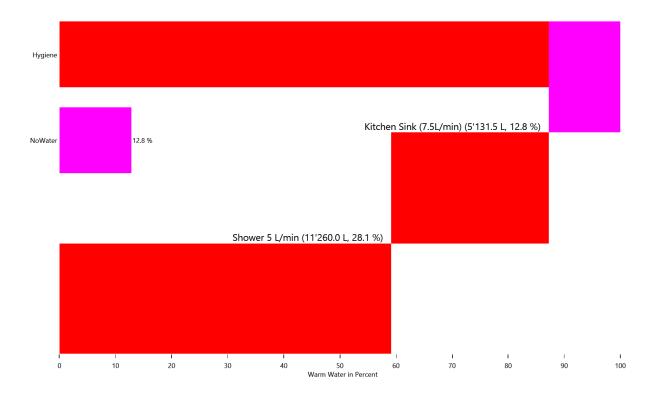
Electricity



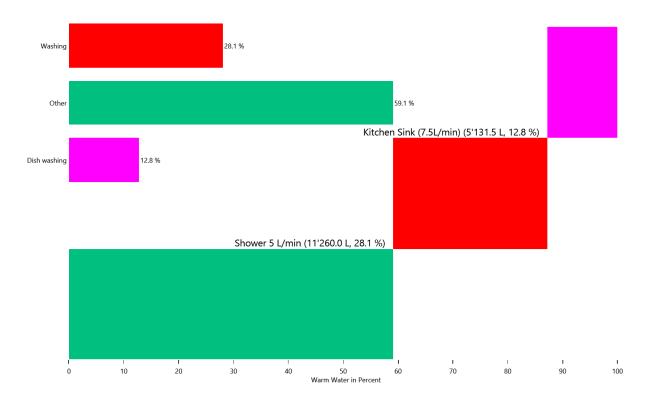
Electricity



Warm Water



Warm Water

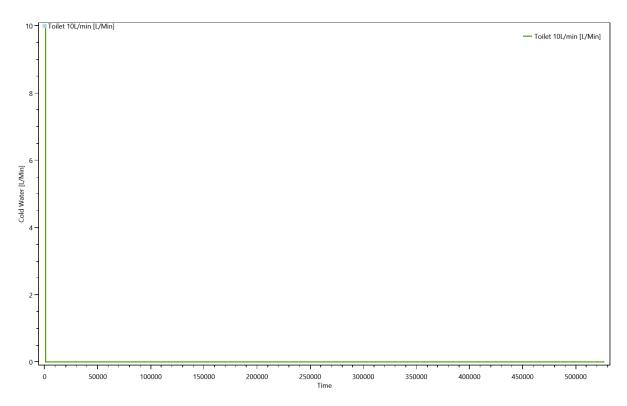


Duration curve for each device for each load type

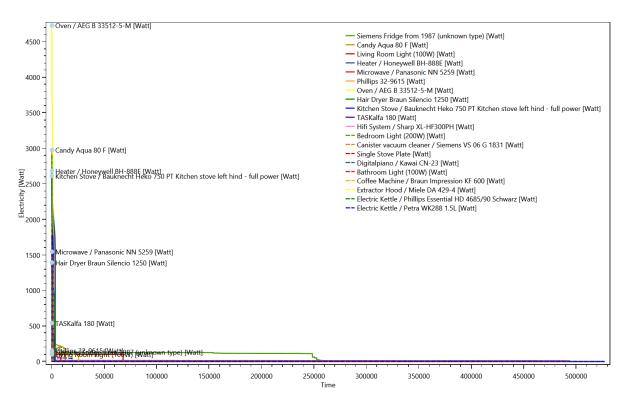
This is made from the files starting with: DeviceDurationCurves

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

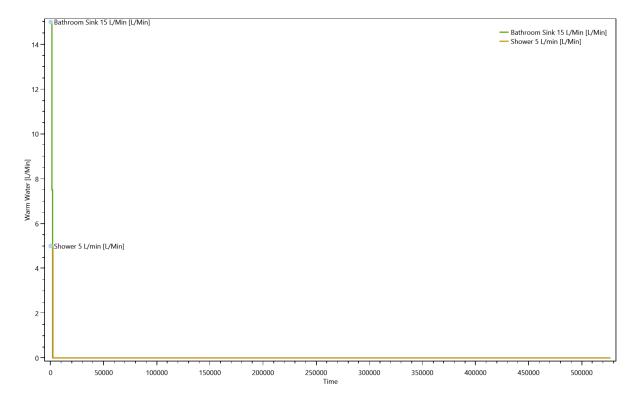
Cold Water



Electricity



Warm Water

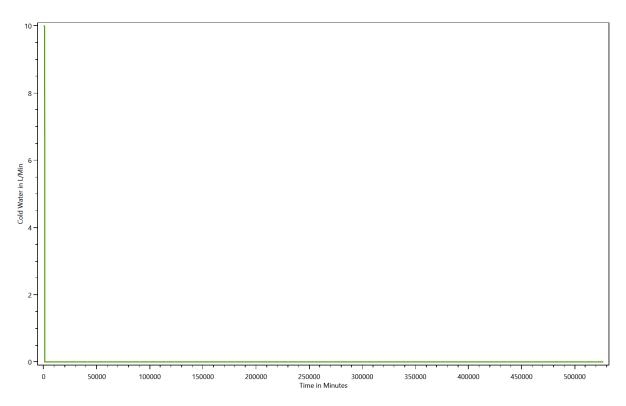


Duration curve for each load type

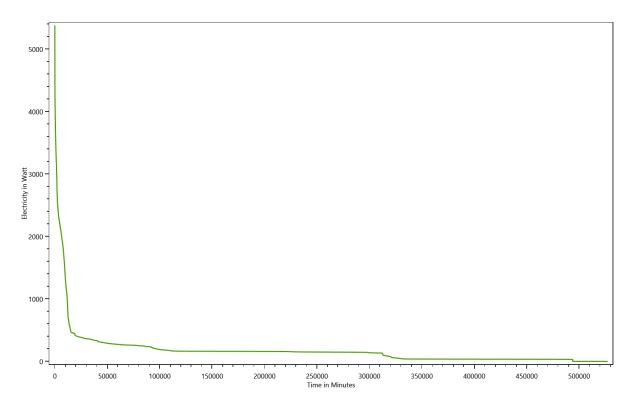
This is made from the files starting with: DurationCurve

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

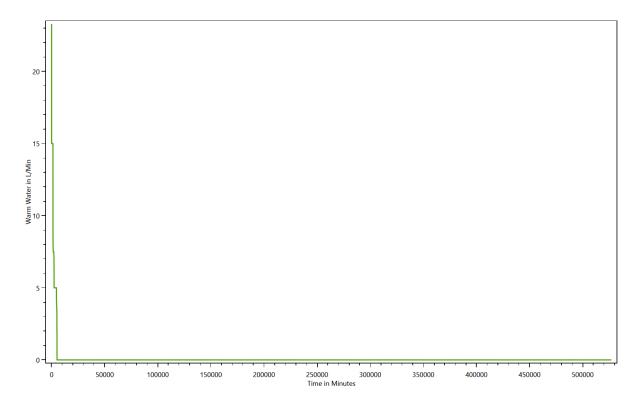
Cold Water



Electricity



Warm Water

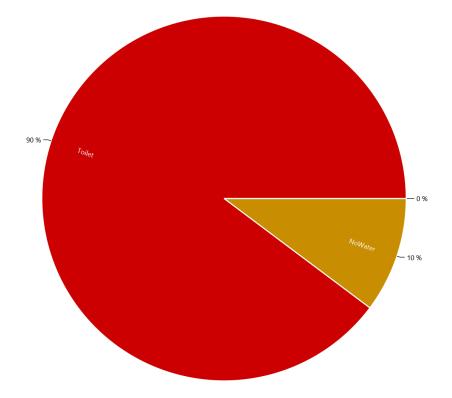


Grouped energy use for each load type for each device

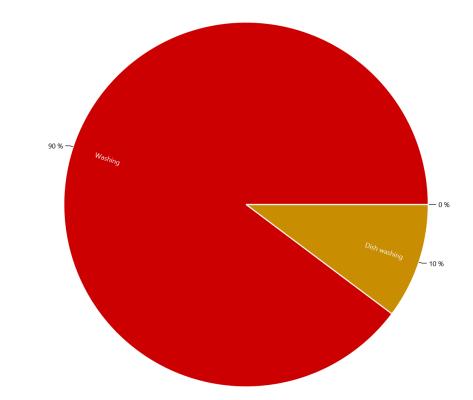
This is made from the files starting with: DeviceTaggingSet

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

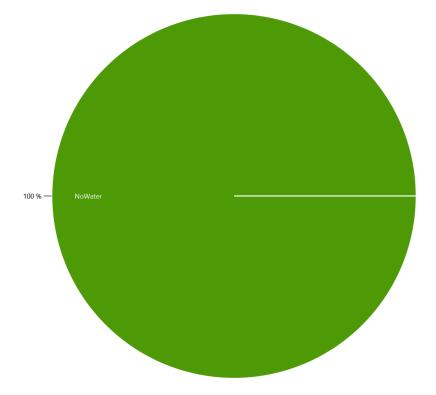
HH0 - Destatis Water Usage Statistics - Cold Water

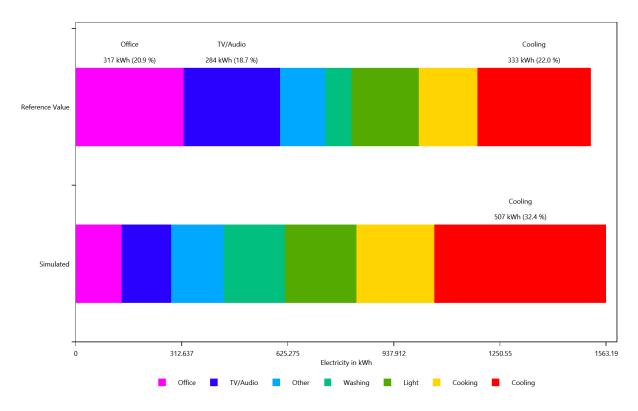


HH0 - Energieagentur - Cold Water



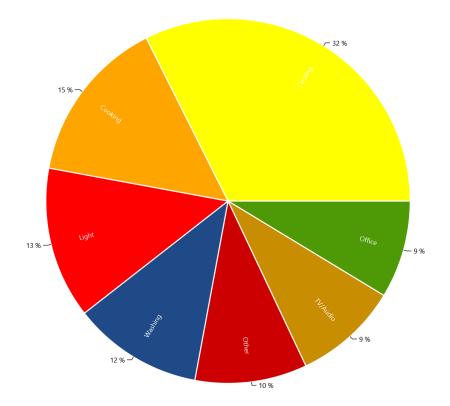
HH0 - Destatis Water Usage Statistics - Electricity

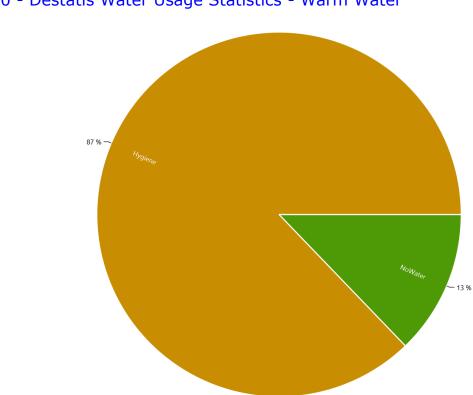




HH0 - Energieagentur - Electricity

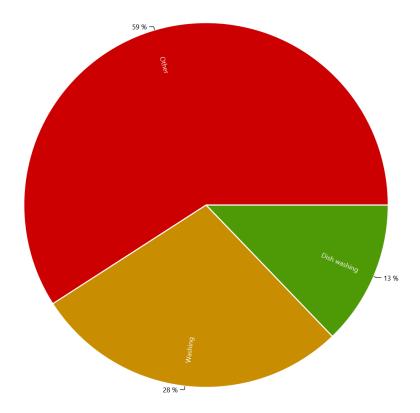
HH0 - Energieagentur - Electricity





HH0 - Destatis Water Usage Statistics - Warm Water

HH0 - Energieagentur - Warm Water

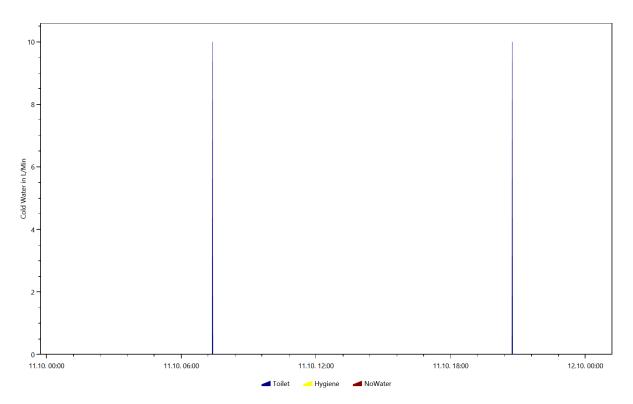


Example of the device profiles for each load type

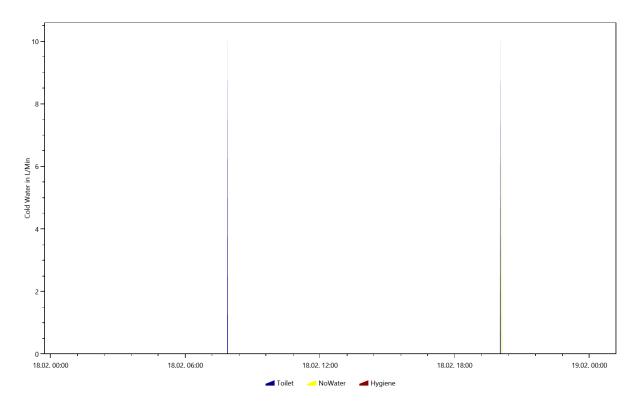
This is made from the files starting with: DeviceProfiles

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

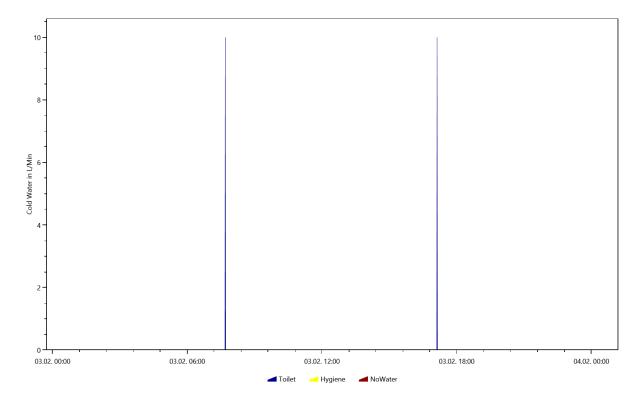
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.10.11



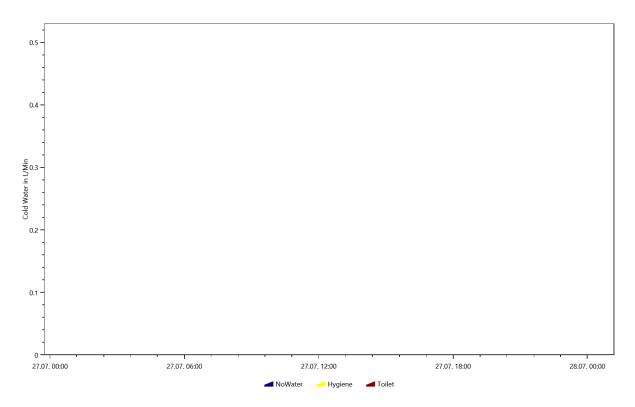
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.2.18



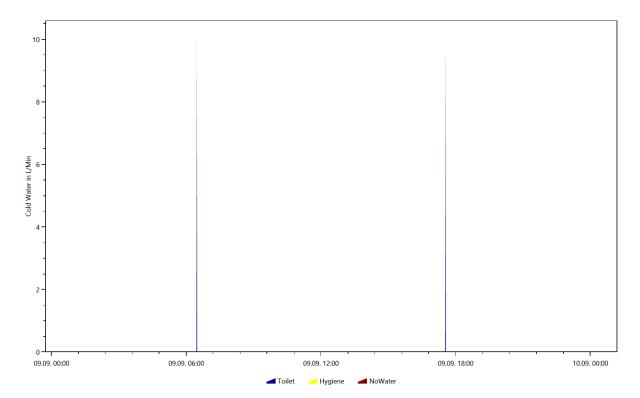
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.2.3

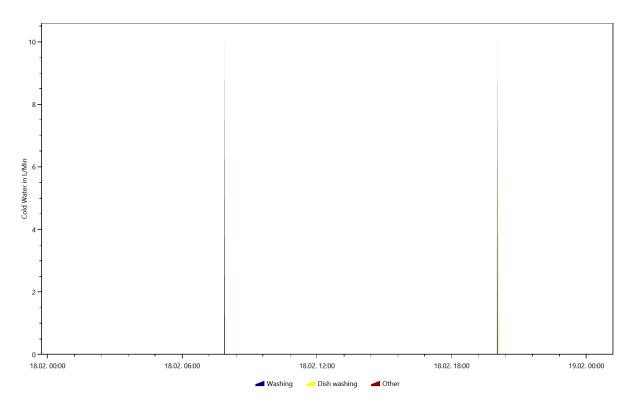


Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.7.27



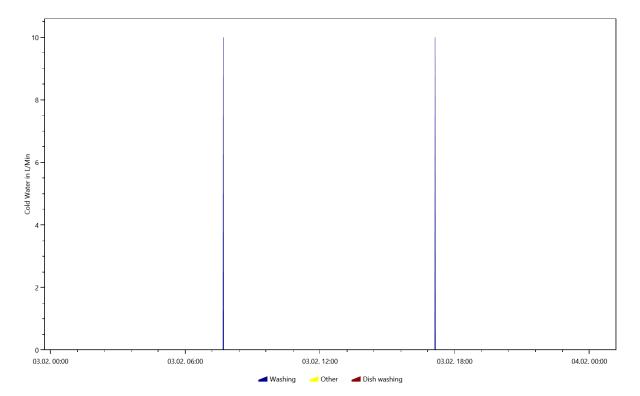
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.9.9

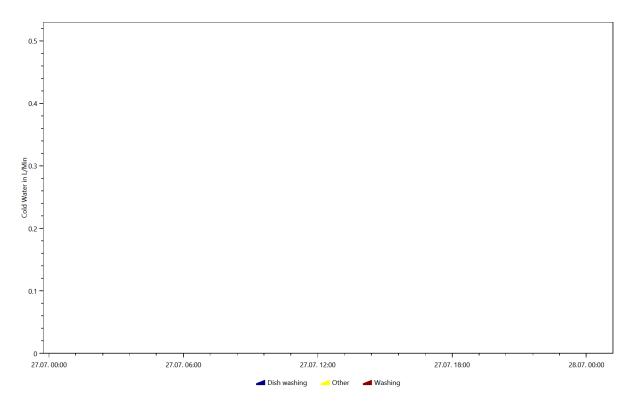




Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.2.18

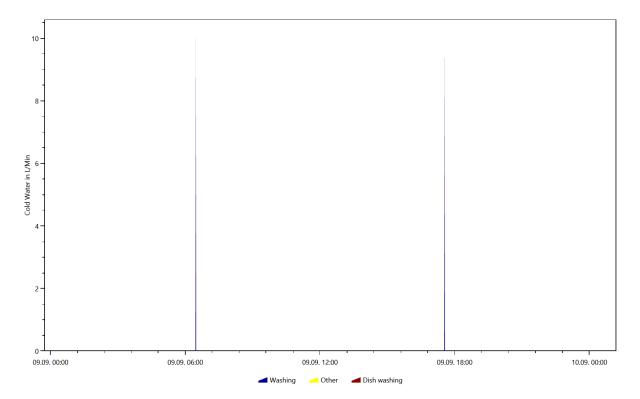
Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.2.3



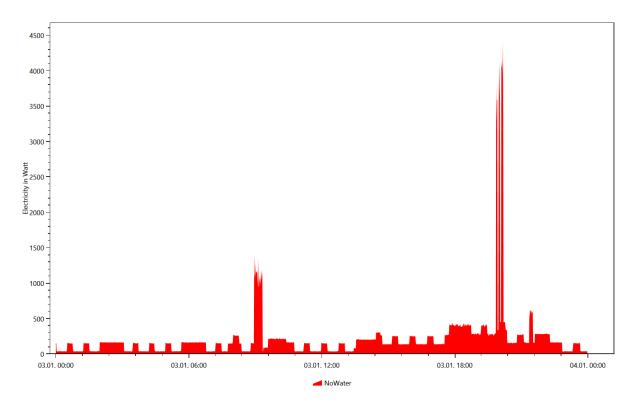


Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.7.27

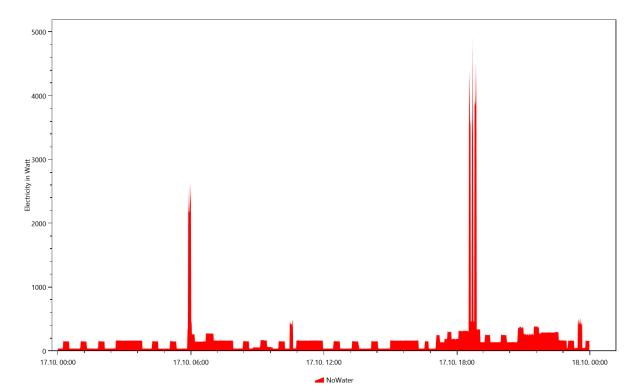
Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.9.9



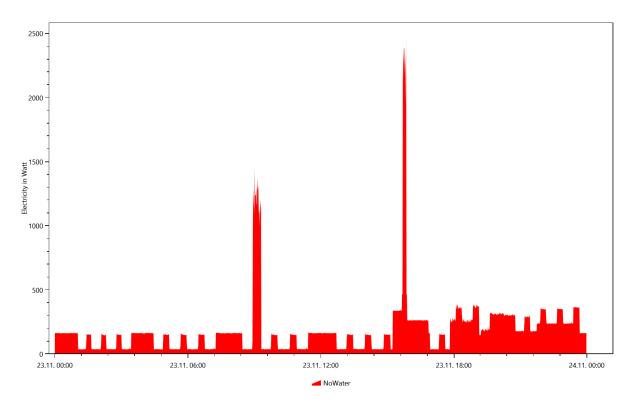
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.1.3



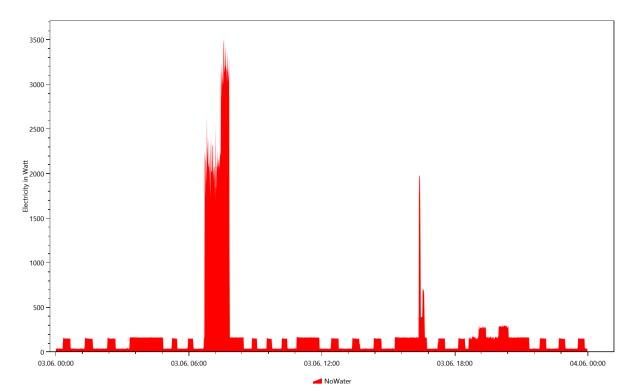
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.10.17



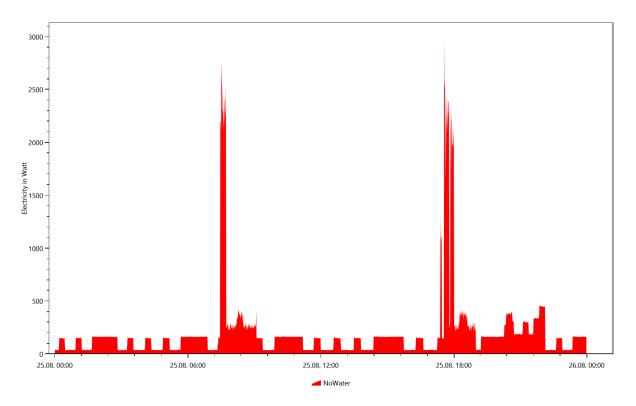
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.11.23



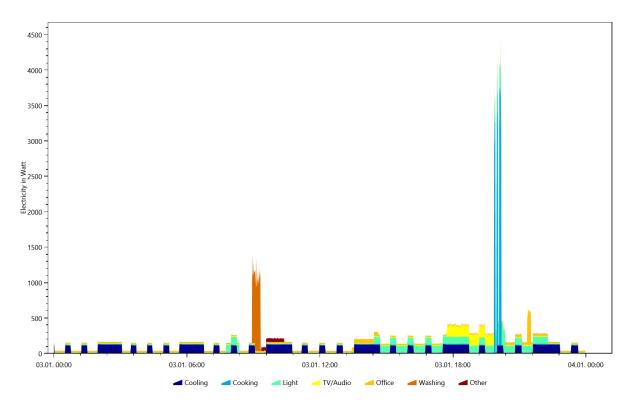
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.6.3

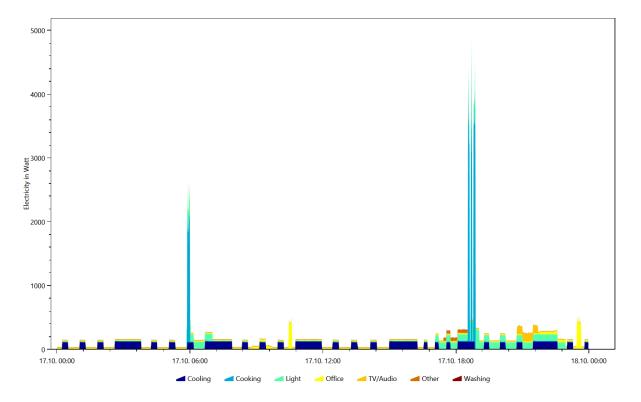


Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.8.25



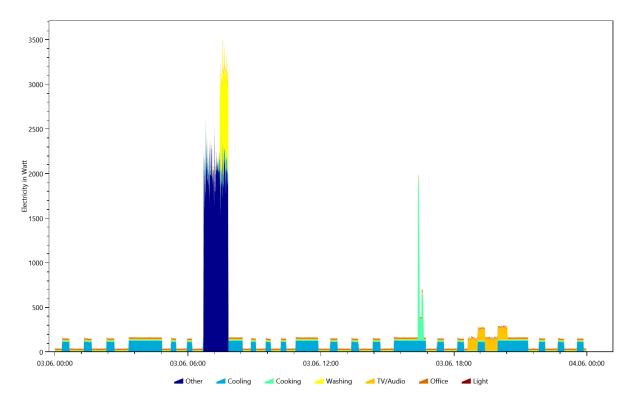
Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.1.3

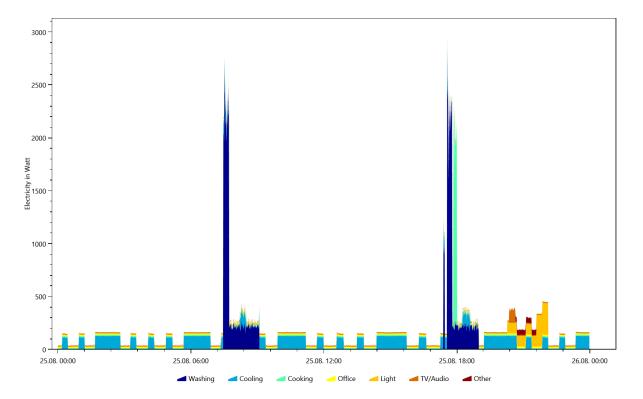




Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.10.17

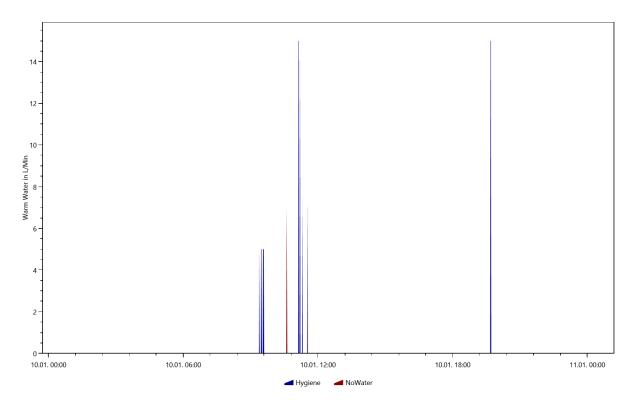
Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.6.3



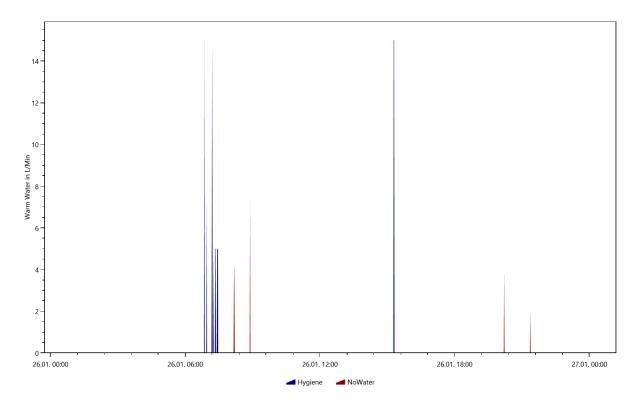


Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.8.25

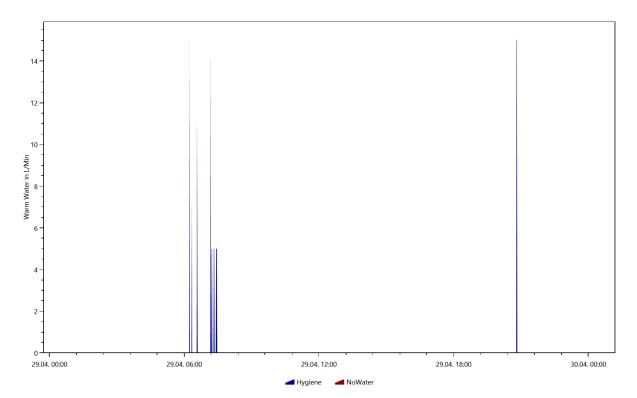
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.1.10



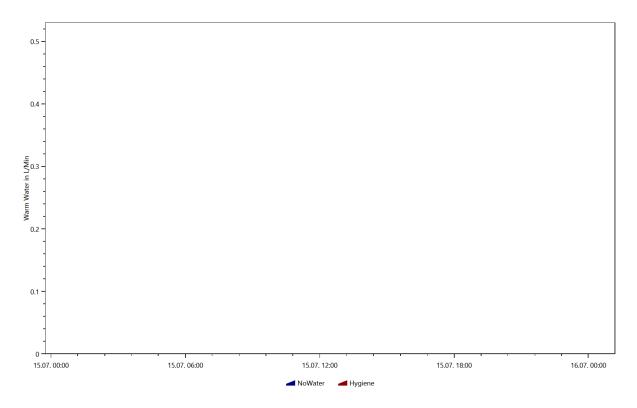
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.1.26



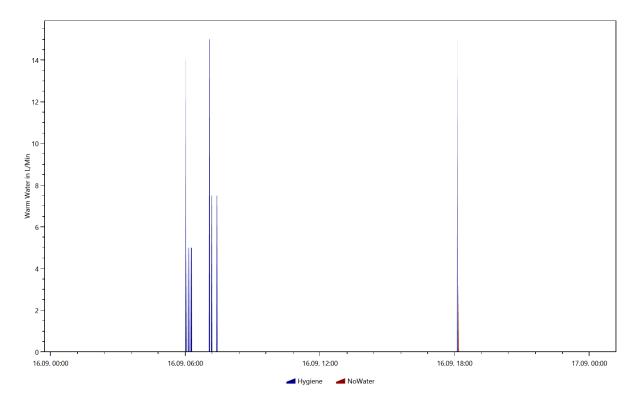
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.4.29



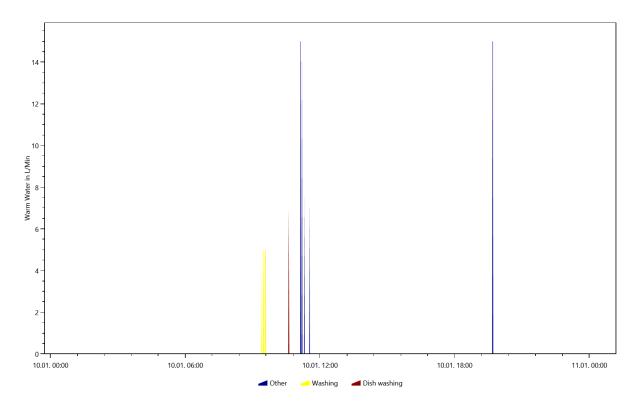
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.7.15



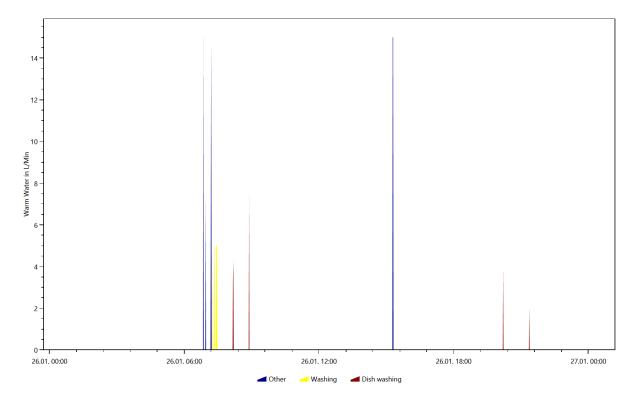
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.9.16



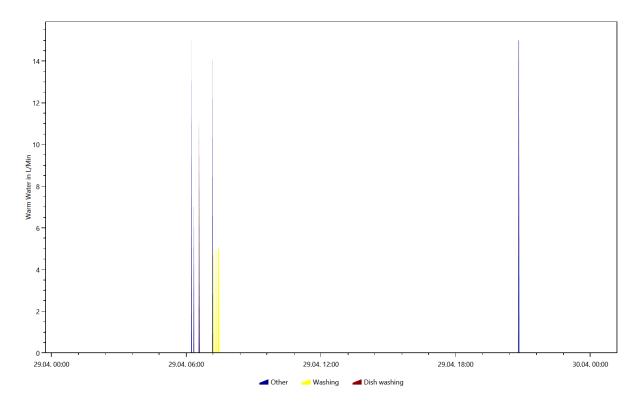
Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.1.10



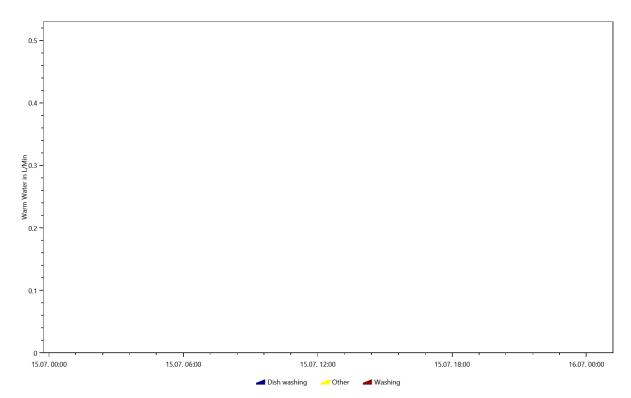
Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.1.26



Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.4.29



Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.7.15

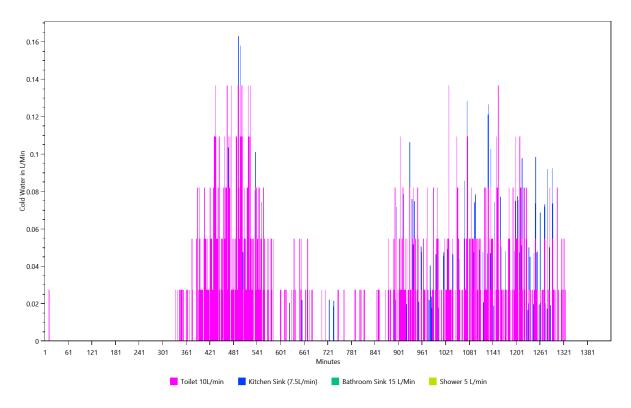


Overview of the time and power of the use per load type per device

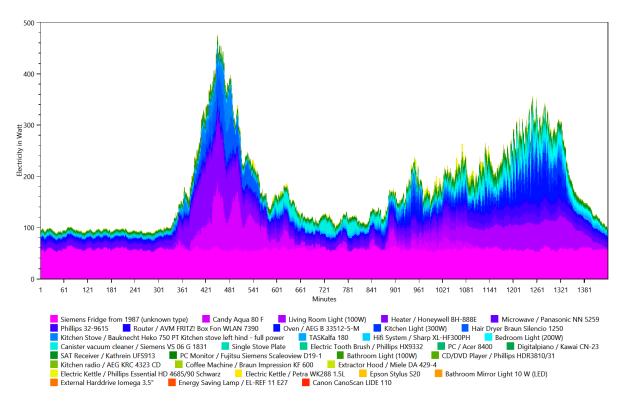
This is made from the files starting with: TimeOfUseEnergyProfiles

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

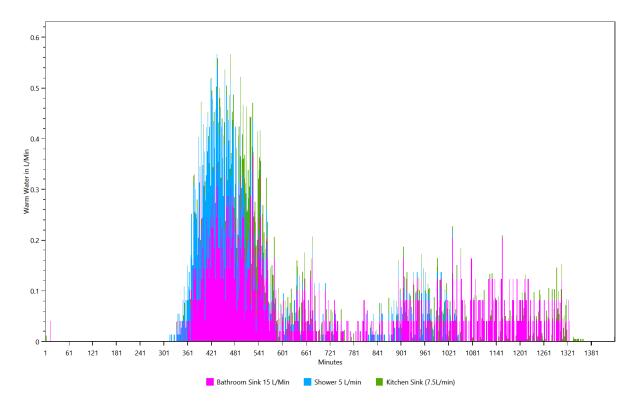
Cold Water



Electricity



Warm Water

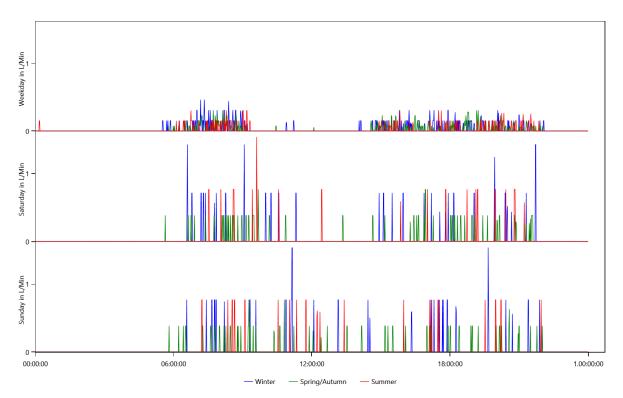


Energy use per load type during different seasons, split by weekday/saturday/sunday

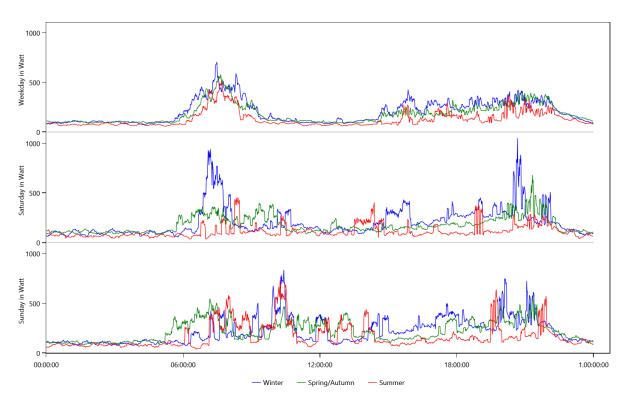
This is made from the files starting with: WeekdayProfiles

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

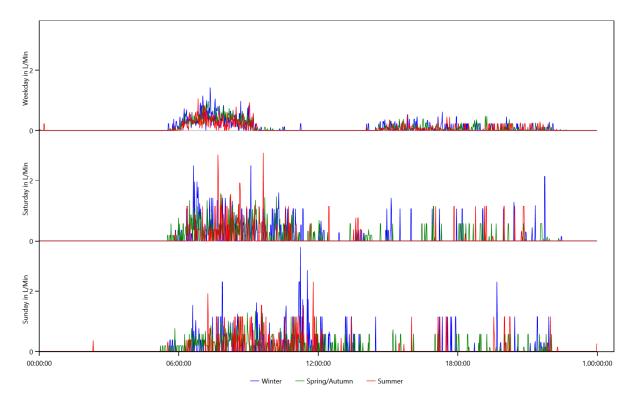
Cold Water



Electricity





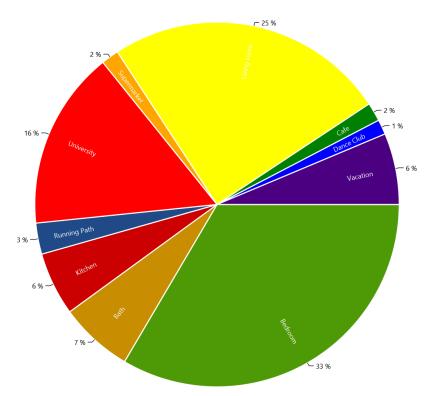


Location Distribution per Person

This is made from the files starting with: LocationStatistics

These charts show where the persons spend their time.

CHR11 Maddy (23 Female)



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;CHR11 Maddy (23/Female);sleep bed 08 (08 h);sleep;False; 433;01.01.2016 07:13;CHR11 Maddy (23/Female);go to the toilet;hygiene;False; 438;01.01.2016 07:18;CHR11 Maddy (23/Female);do laundry 30°C with mini washing machine;cleaning;False; 454;01.01.2016 07:34;CHR11 Maddy (23/Female);fry two eggs and eat them with toast;cooking;False; 470;01.01.2016 07:50;CHR11 Maddy (23/Female);go running (1 h);sports;False; 530;01.01.2016 08:50;CHR11 Maddy (23/Female);wash 1 dishes by hand;cleaning;False; 556;01.01.2016 09:16;CHR11 Maddy (23/Female);study philosophy;school;False; 850;01.01.2016 14:10;CHR11 Maddy (23/Female);hang up laundry outside;cleaning;False; 883;01.01.2016 14:43;CHR11 Maddy (23/Female);take a shower with electric air heater;hygiene;False; 945;01.01.2016 15:45;CHR11 Maddy (23/Female);go shopping for food in the supermarket (1.5 h);shopping;False; 1038;01.01.2016 17:18;CHR11 Maddy (23/Female);go to the toilet;hygiene;False; 1043;01.01.2016 17:23;CHR11 Maddy (23/Female);study at home;school;False; 1114;01.01.2016 18:34;CHR11 Maddy (23/Female);play digital piano (1 h);Offline Entertainment;False; 1180;01.01.2016 19:40;CHR11 Maddy (23/Female);heat up leftovers;cooking;False; 1201;01.01.2016 20:01;CHR11 Maddy (23/Female);clean the bath;cleaning;False; 1250;01.01.2016 20:50;CHR11 Maddy (23/Female);read a book on the couch all the time;Offline Entertainment; False; 1362;01.01.2016 22:42;CHR11 Maddy (23/Female);sleep bed 08 (08 h);sleep;False; 1847;02.01.2016 06:47;CHR11 Maddy (23/Female);get ready in the morning (women);hygiene;False;

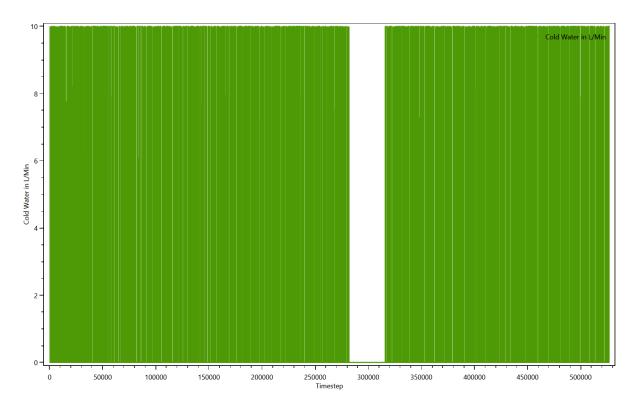
1871;02.01.2016 07:11;CHR11 Maddy (23/Female);go to the toilet;hygiene;False;

Sum Profiles

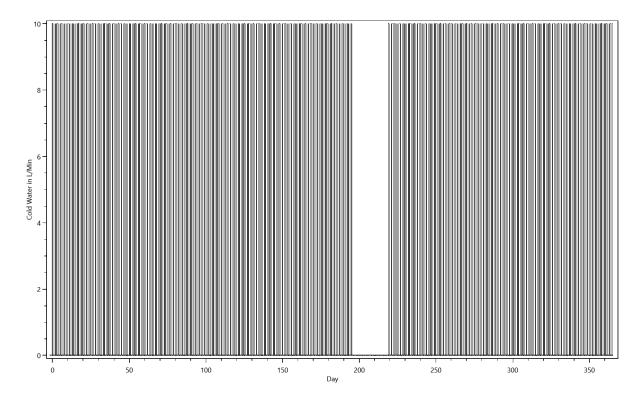
This is made from the files starting with: SumProfiles

This shows the energy use during the simulation.

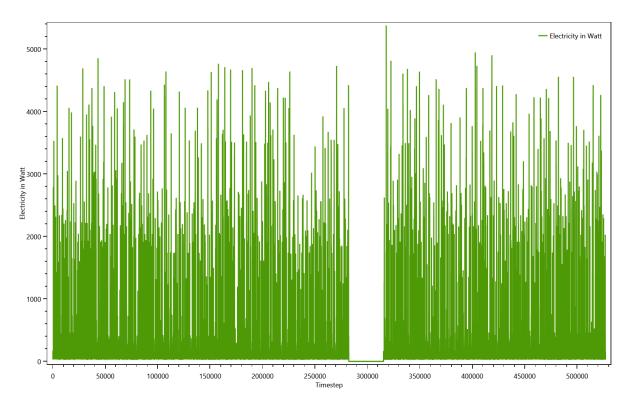
Summed up curve for Cold Water from SumProfiles.Cold Water.png



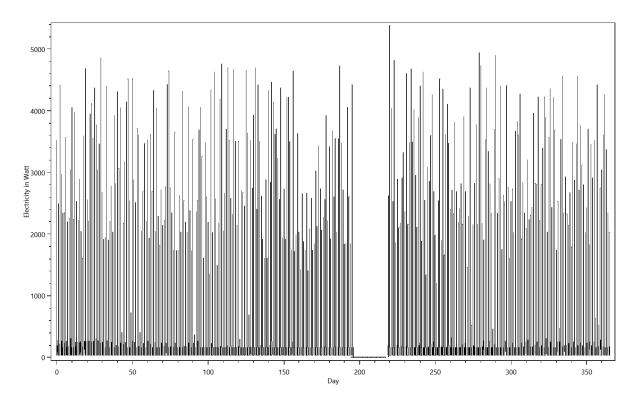
Summed up curve for Cold WaterMinMax from SumProfiles.Cold WaterMinMax..png



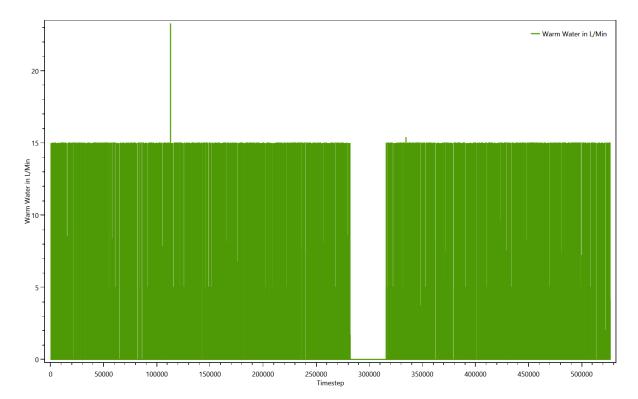
Summed up curve for Electricity from SumProfiles.Electricity.png

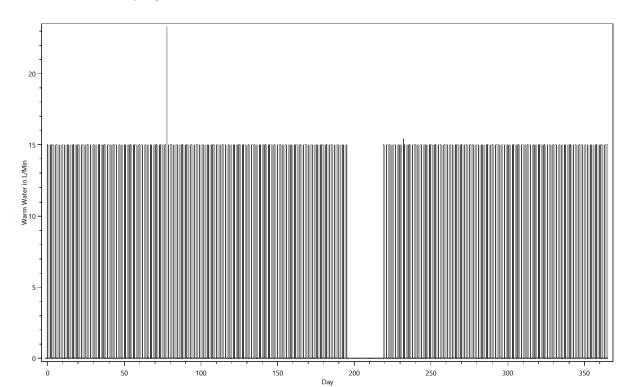


Summed up curve for ElectricityMinMax from SumProfiles.ElectricityMinMax..png



Summed up curve for Warm Water from SumProfiles.Warm Water.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.CHR11 Student, Female, Philosophy 0.txt

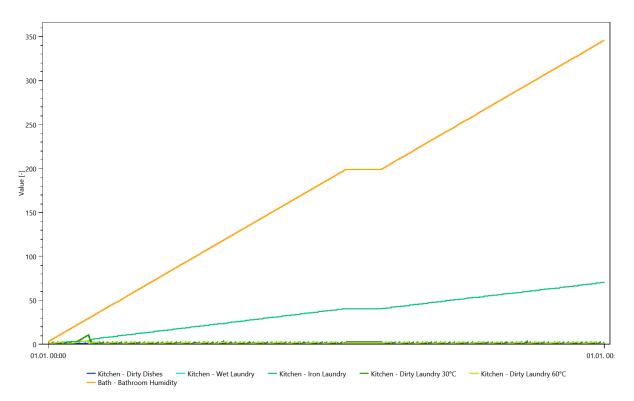
Device;Load Type;Profile;Number of Activations Bathroom Light (100W); Electricity; Bath - light [Synthetic for Light Device]; 408 Bathroom Mirror Light 10 W (LED); Electricity; Bath - light [Synthetic for Light Device]; 408 Bathroom Sink 15 L/Min; Warm Water; 0 h 01 min 100% [Synthetic]; 843 Bathroom Sink 15 L/Min; Warm Water; 0 h 01 min 50% [Synthetic]; 452 Bed 8;None;08 h 0 min 100% [Synthetic];341 Bedroom Light (200W);Electricity;Bedroom - light [Synthetic for Light Device];82 Bread;None;0 h 01 min 100% [Synthetic];186 CD/DVD Player / Phillips HDR3810/31;Electricity;01 h 30 min 100% [Synthetic];62 CD/DVD Player / Phillips HDR3810/31;Electricity;02 h 0 min 100% [Synthetic];69 CD/DVD Player / Phillips HDR3810/31;Electricity;Standby TV / Receiver 1 h 0 min 3% [Synthetic];8236 Cafe Table;None;03 h 0 min 100 % [Synthetic];48 Candy Aqua 80 F;Electricity;Washing machine profile [Synthetic];141 Canister vacuum cleaner / Siemens VS 06 G 1831;Electricity;0 h 30 min 100% [Synthetic];40 Canon CanoScan LIDE 110;Electricity;0 h 10 min 100% [Synthetic];54 Cleanser; None; 01 h 0 min 100% [Synthetic]; 94 Cloth Drying Rack; None; 0 h 20 min 100% [Synthetic]; 141 Coffee Machine / Braun Impression KF 600;Electricity;0 h 10 min 100% [Synthetic];23 Couch;None;01 h 0 min 100% [Synthetic];10 Couch;None;02 h 0 min 100% [Synthetic];364

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

