Overview of the results of the household CHR42 Single man with 2 children, with work 0

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

Energy Intensity: Random

Seed 5644

LoadProfileGenerator 5.8.0.16019

by Noah Pflugradt

http://www.loadprofilegenerator.de

Rendering date:16.12.2016 09:29:32

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Totals

Totals for each Loadtype

Load Type	Value	Unit
Cold Water	27247.71	L
Electricity	3770.63	kWh
Warm Water	114729.47	L

Totals for each Loadtype per Day

Load Type	Value	Unit
Cold Water	74.45	L
Electricity	10.30	kWh
Warm Water	313.47	L

Minimum and Maximum for each Loadtype

Household	Minimum	Maximum	Unit
Cold Water	0.00	14.22	L/Min
Electricity	0.00	10142.92	Watt
Warm Water	0.00	20.00	L/Min

Totals for each Loadtype per Person

Load Type	Value	Unit
Cold Water	9082.57	L
Electricity	1256.88	kWh

Warm Water	38243.16 L	
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Totals for each Loadtype per Person per Day

Load Type	Value	Unit
Cold Water	24.82	L
Electricity	3.43	kWh
Warm Water	104.49	L

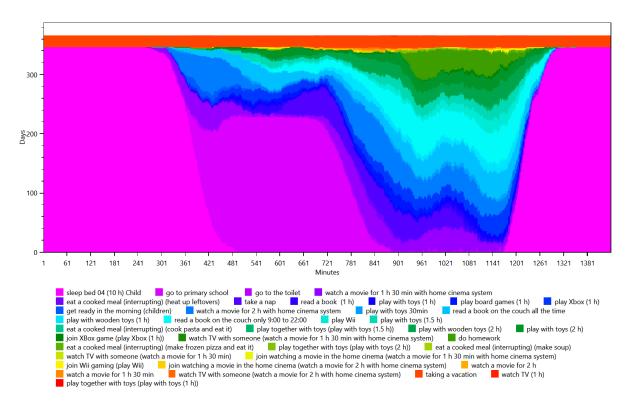
Persons

- HH0 •
- CHR42 Jessica (7/Female)(7/Female)
 CHR42 Max (42/Male)(42/Male)
 CHR42 Moritz (10/Male)(10/Male)

Activity Frequency Charts

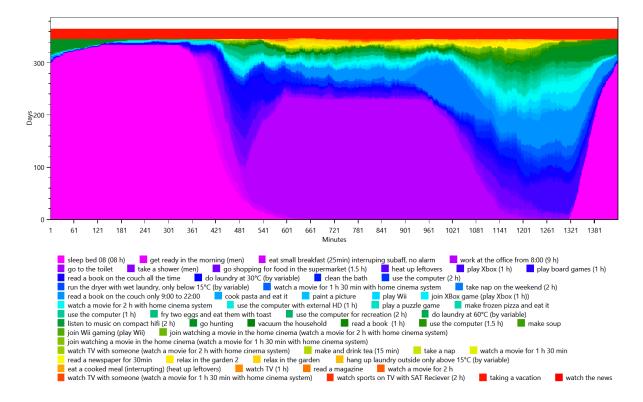
This is made from the files starting with: ActivityFrequenciesPerMinute

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.

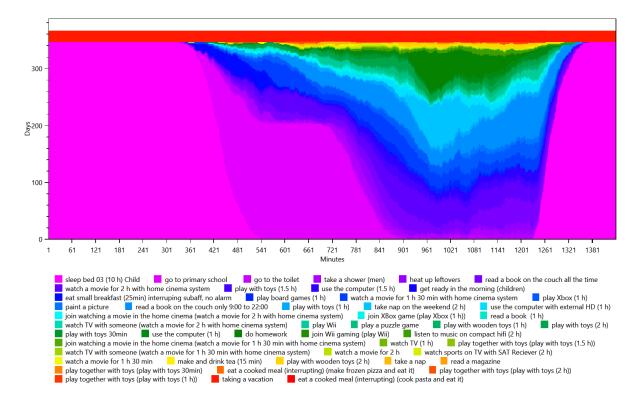


HH0 - CHR42 Jessica (7 Female)





HH0 - CHR42 Moritz (10 Male)

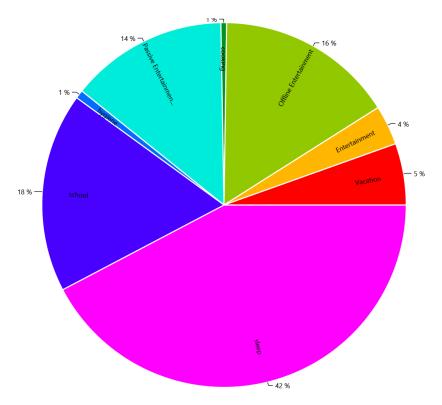


Activity Distribution per Person

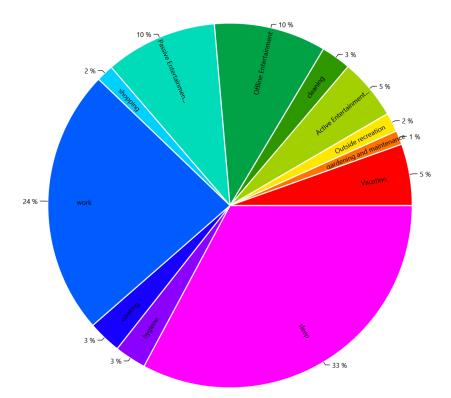
This is made from the files starting with: ActivityPercentage

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

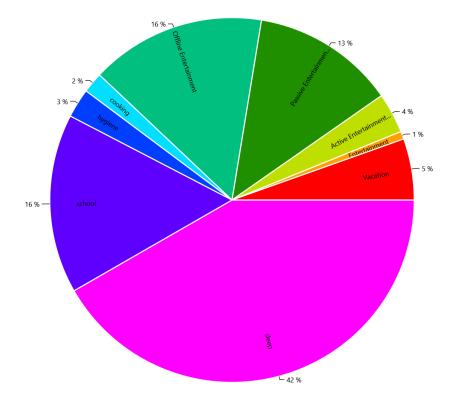
HH0 - CHR42 Jessica (7 Female)



HH0 - CHR42 Max (42 Male)



HH0 - CHR42 Moritz (10 Male)

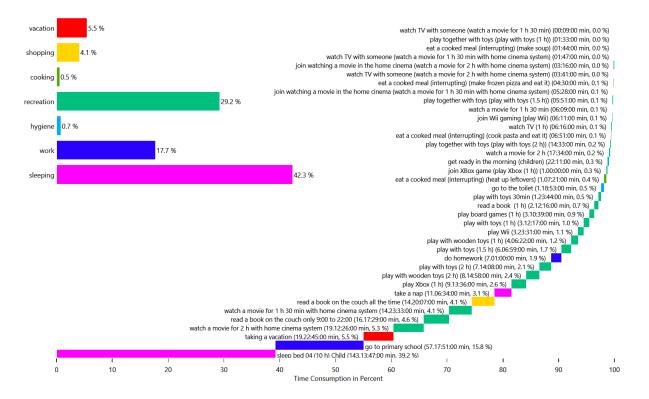


Time Use per Person per Affordance Per Person

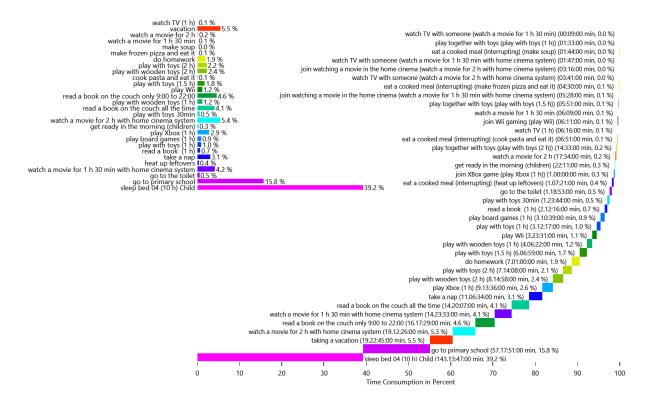
This is made from the files starting with: AffordanceTimeUse

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.

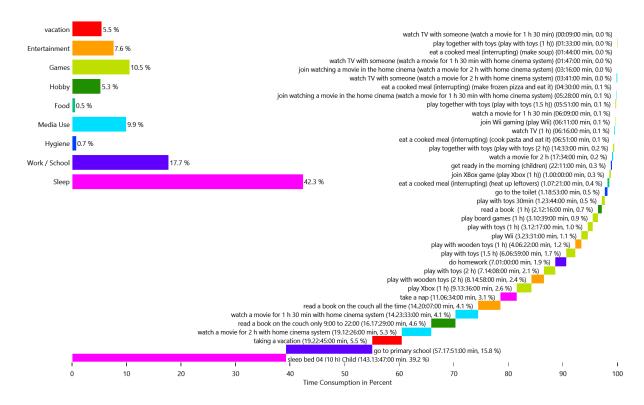
HH0 - CHR42 Jessica (7 Female)



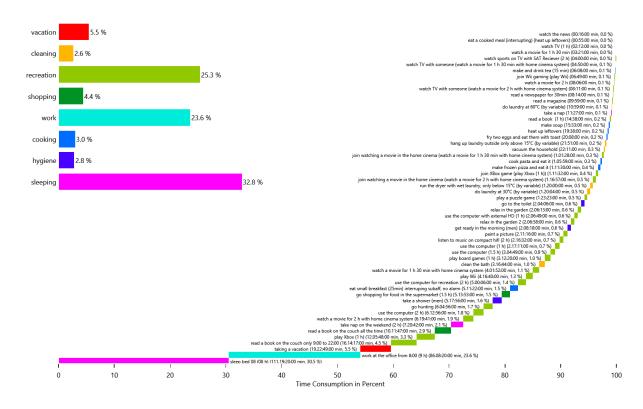
HH0 - CHR42 Jessica (7 Female)



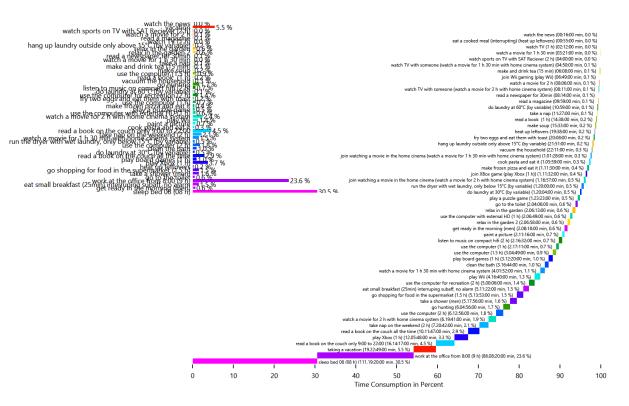
HH0 - CHR42 Jessica (7 Female)



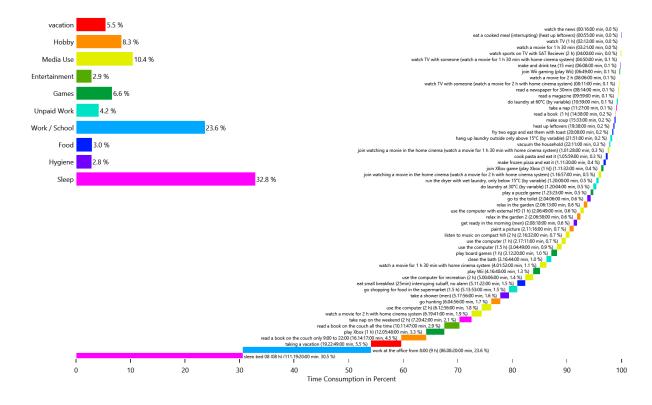
HH0 - CHR42 Max (42 Male)



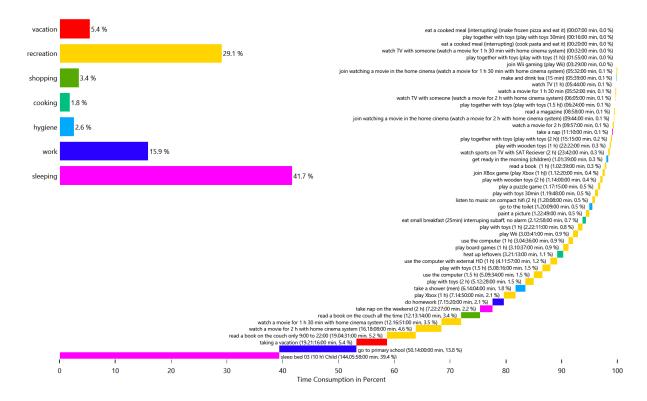
HH0 - CHR42 Max (42 Male)



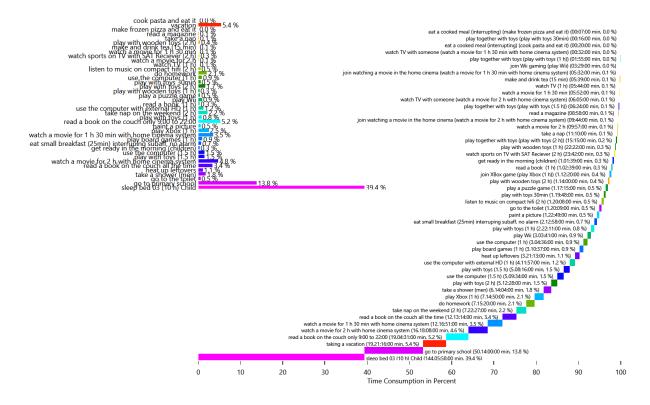
HH0 - CHR42 Max (42 Male)



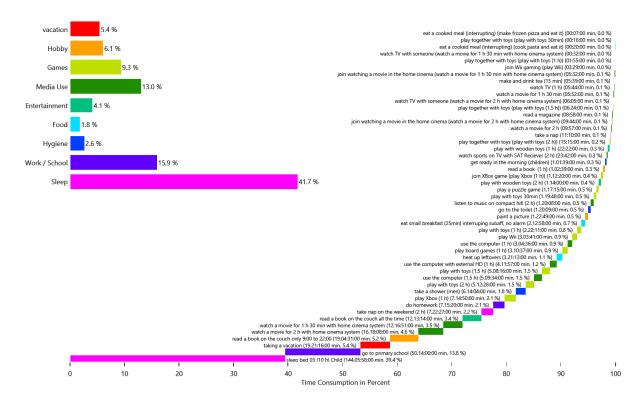
HH0 - CHR42 Moritz (10 Male)



HH0 - CHR42 Moritz (10 Male)



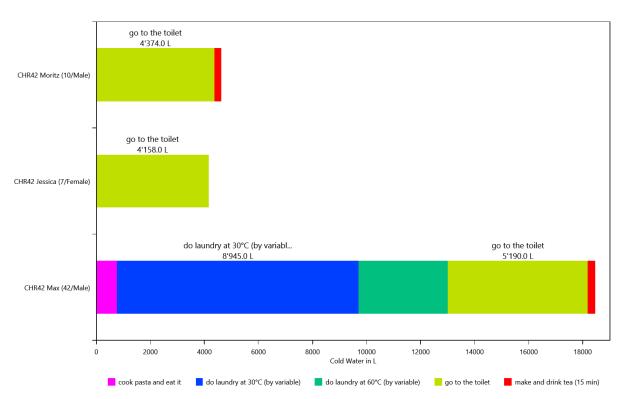
HH0 - CHR42 Moritz (10 Male)



Energy use per person per affordance

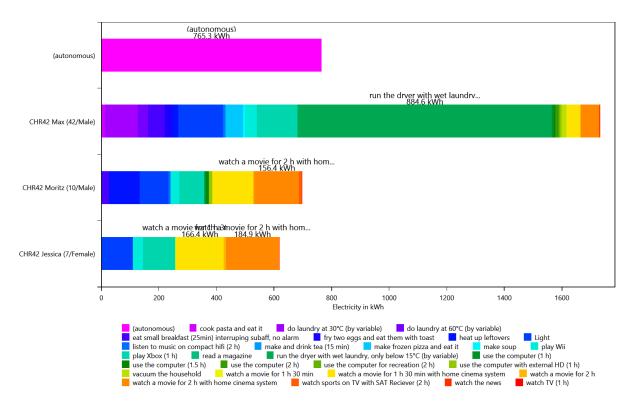
This is made from the files starting with: AffordanceEnergyUsePerPerson

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.

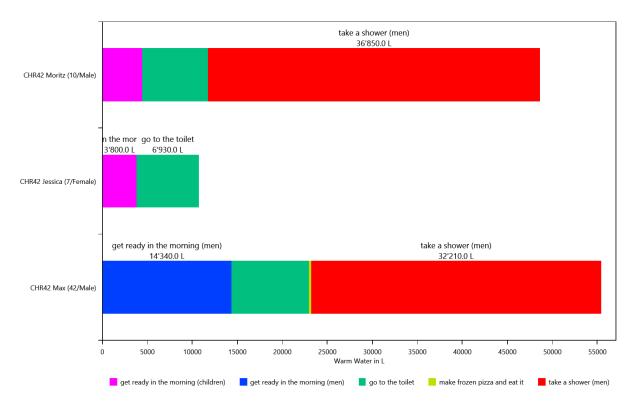


HH0 - Cold Water

HH0 - Electricity



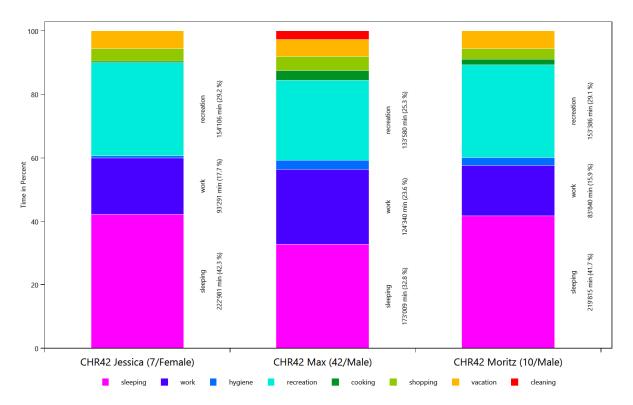
HH0 - Warm Water



Time Use per Person Per Affordance according to different category definitions

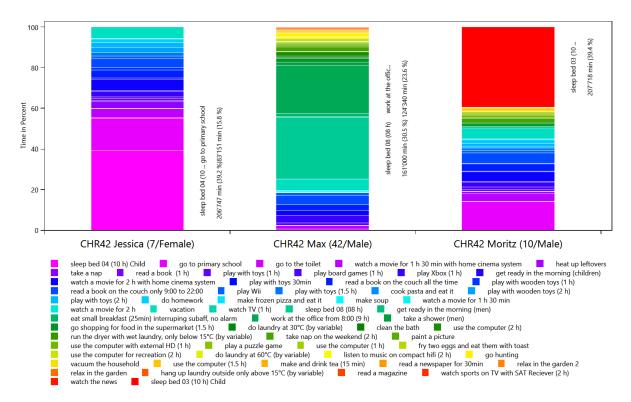
This is made from the files starting with: AffordanceTaggingSet

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.

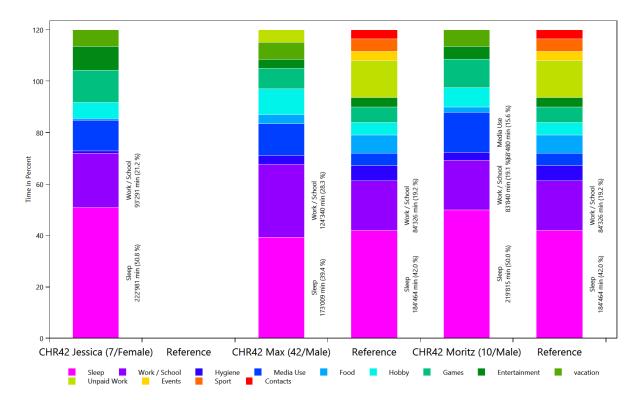


Basic Tagging - HH0





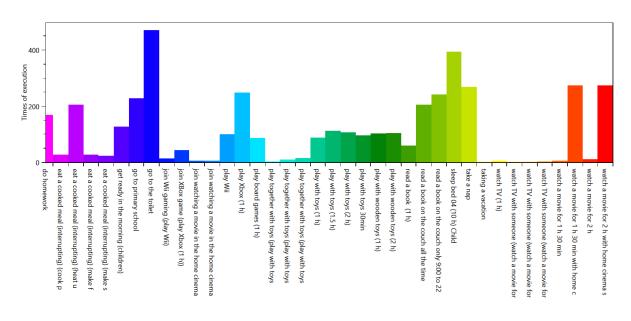
Wo bleibt die Zeit - HHO



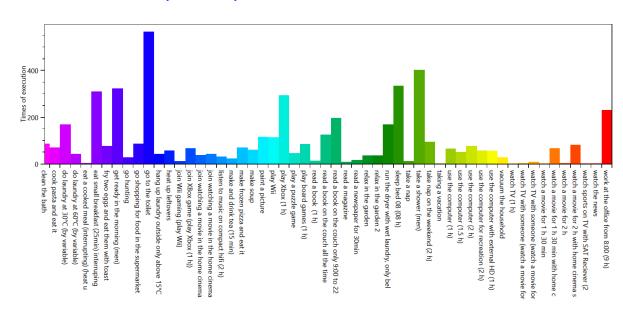
Overview of the actions of each member of the household

This is made from the files starting with: ExecutedActionsOverviewCount

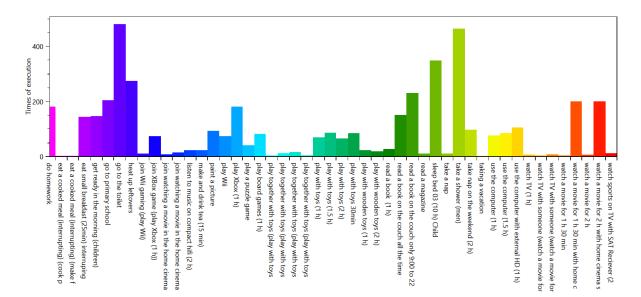
These charts show how often each affordance was executed.



HH0 - CHR42 Jessica (7 Female)



HH0 - CHR42 Moritz (10 Male)



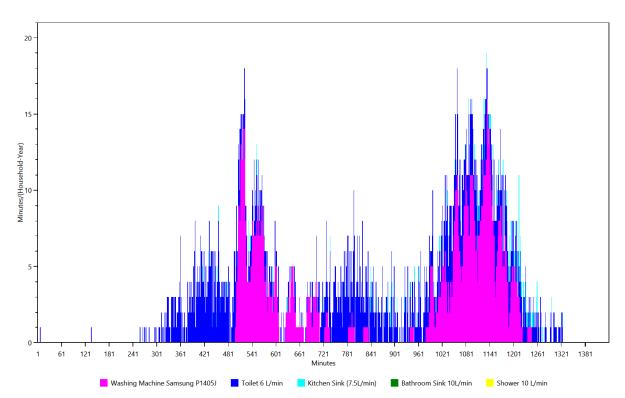
HH0 - CHR42 Max (42 Male)

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

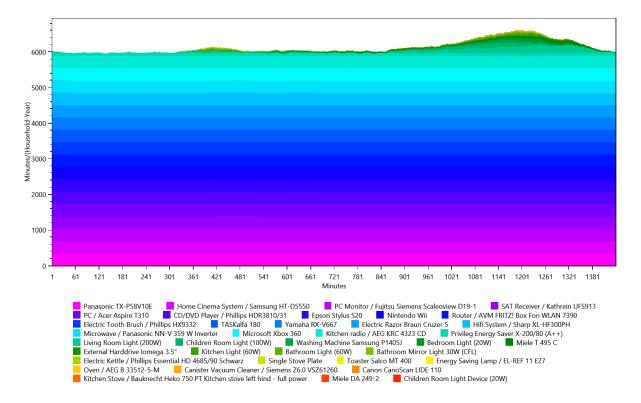
This is made from the files starting with: TimeOfUseEnergyProfiles

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

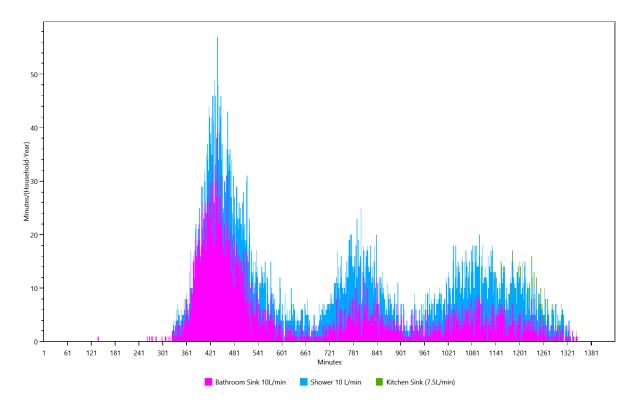
Cold Water



Electricity



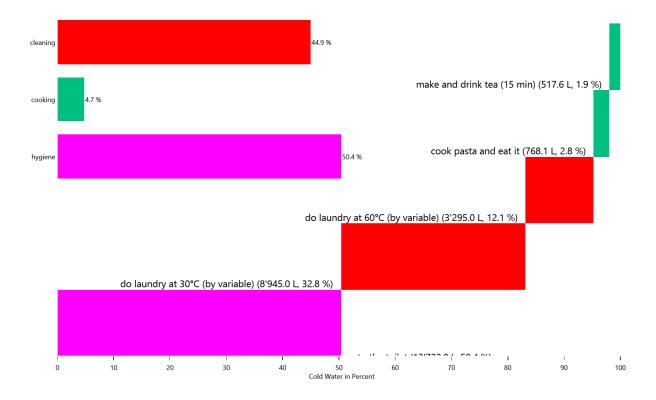
Warm Water



Energy/Resource use distribution per load type per affordance

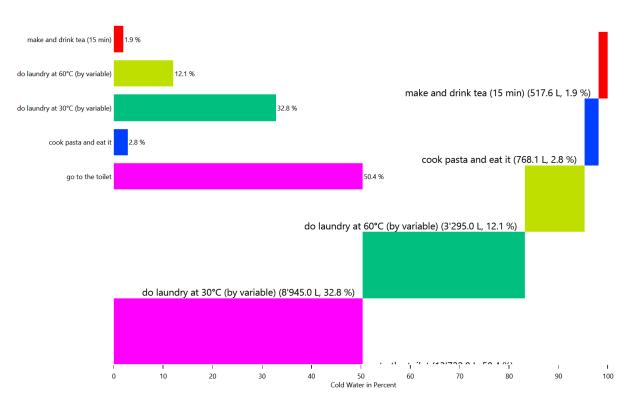
This is made from the files starting with: AffordanceEnergyUse

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

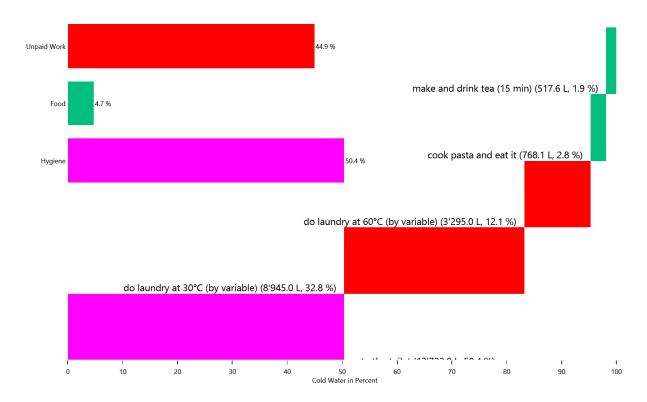


HH0 - Cold Water

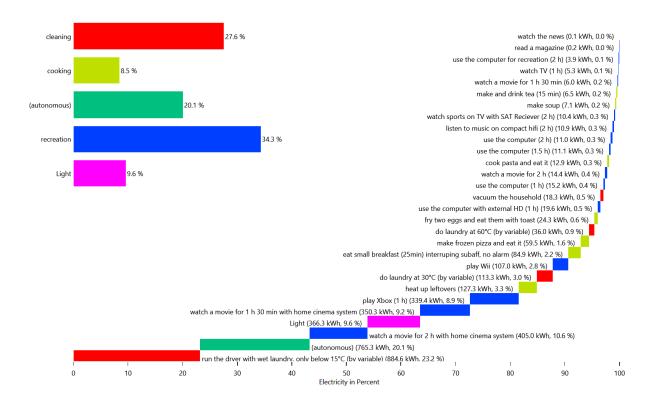
HH0 - Cold Water



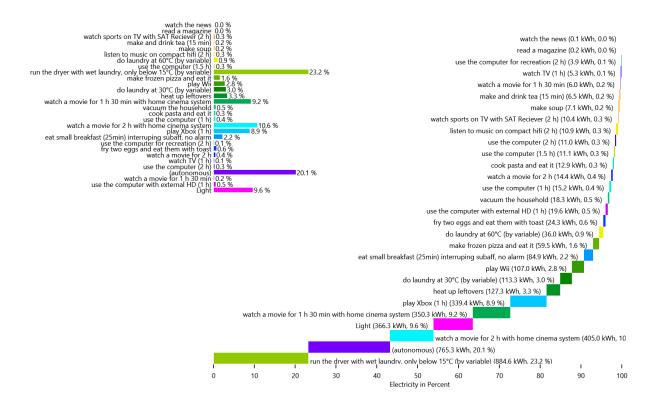
HH0 - Cold Water



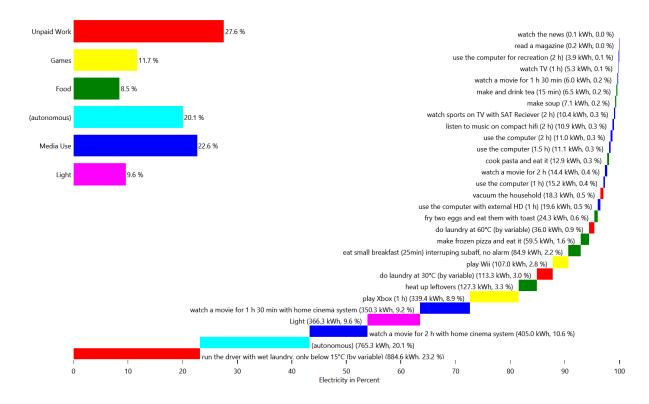
HH0 - Electricity



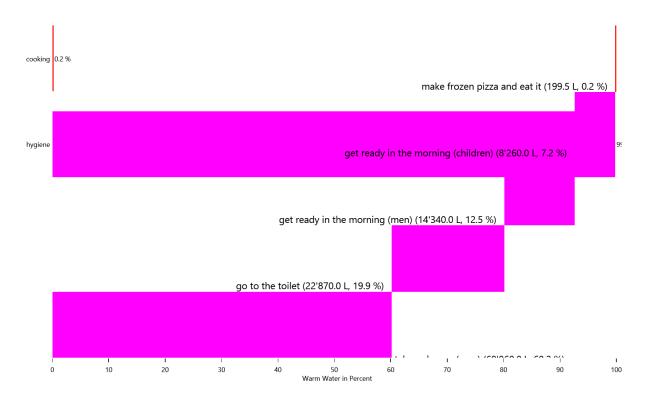
HH0 - Electricity



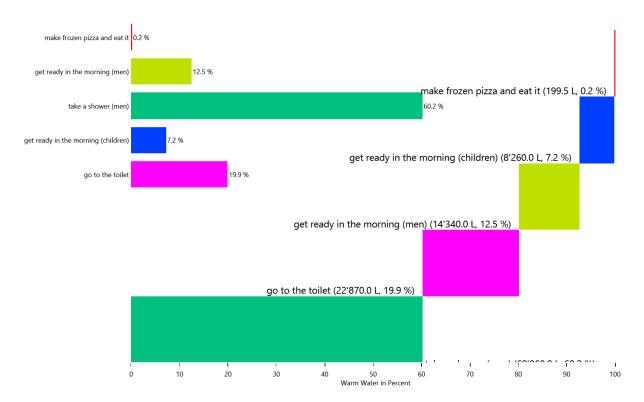
HH0 - Electricity



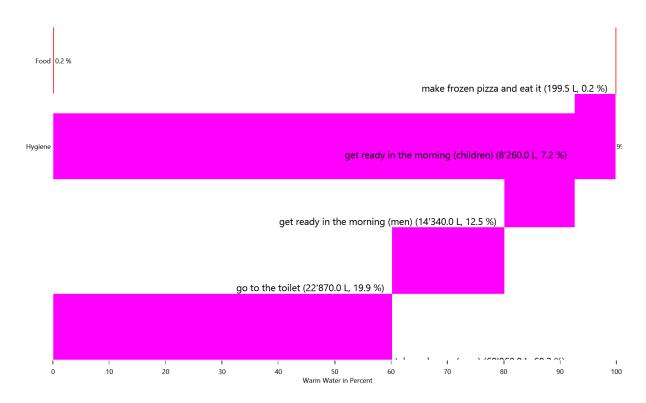




HH0 - Warm Water





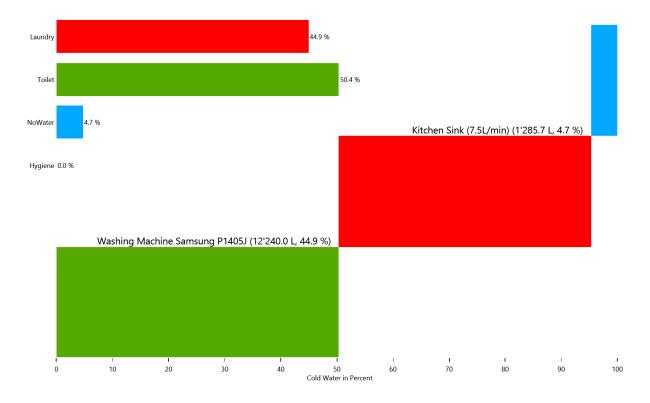


Energy use for each load type for each device

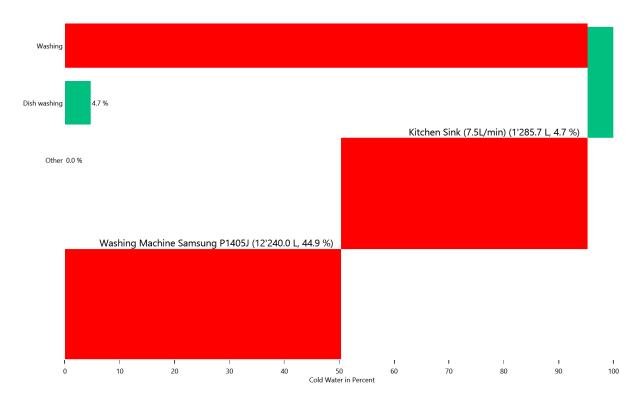
This is made from the files starting with: DeviceSums

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

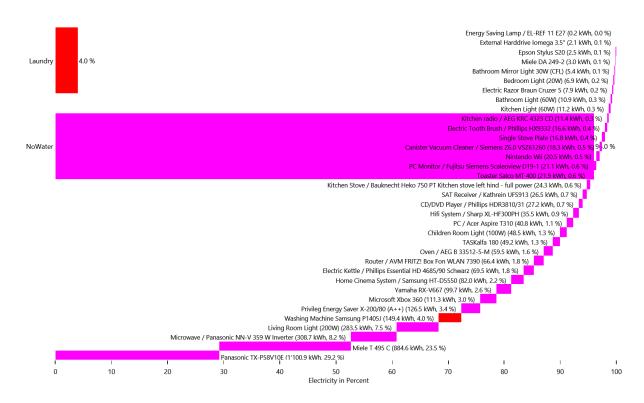
Cold Water



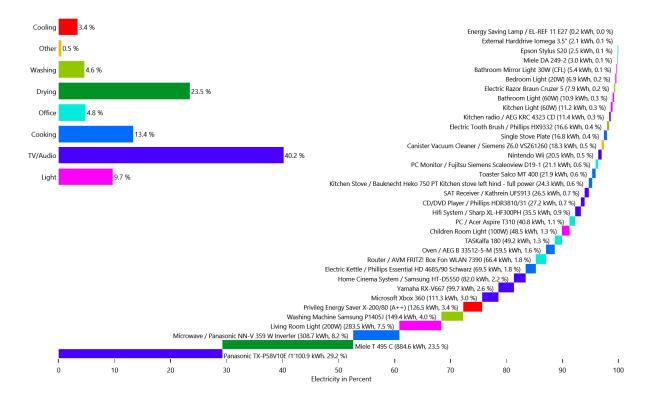
Cold Water



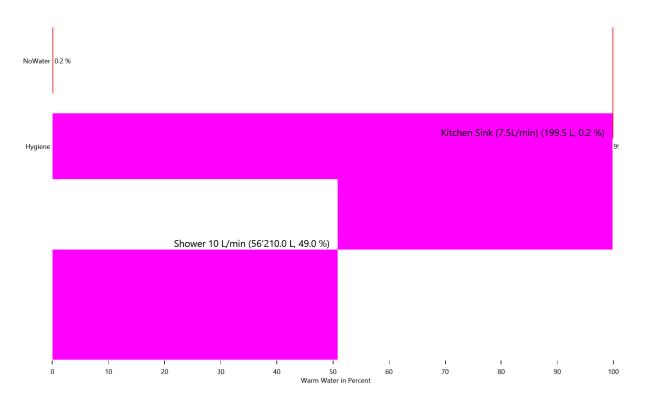
Electricity



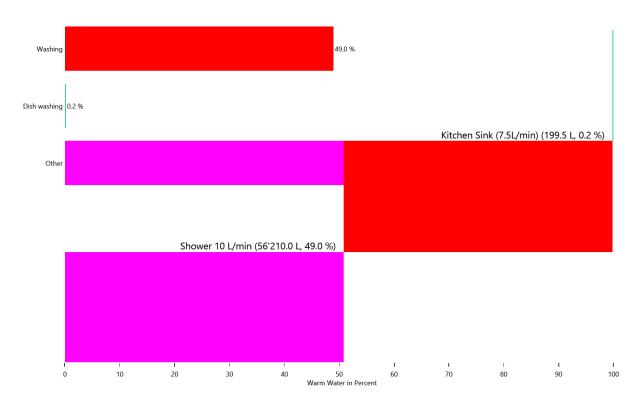
Electricity







Warm Water

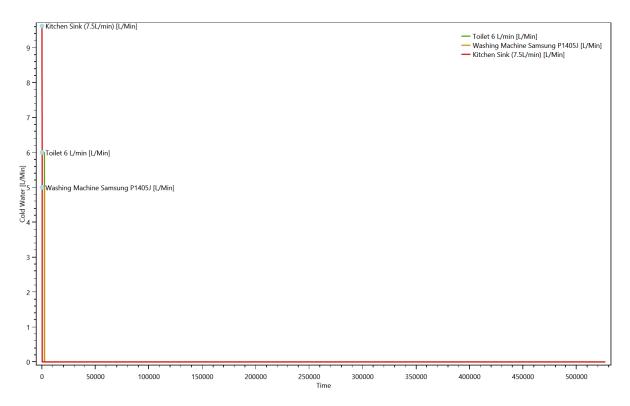


Duration curve for each device for each load type

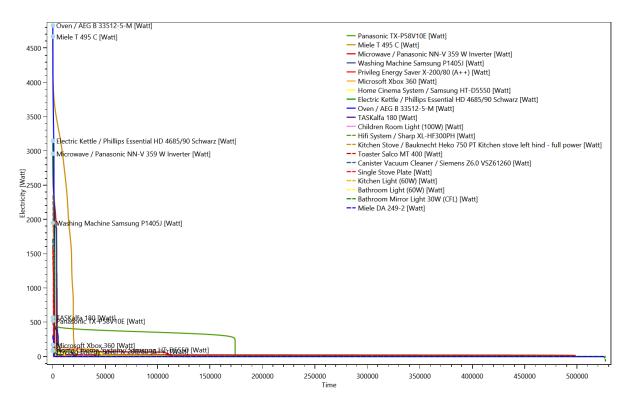
This is made from the files starting with: DeviceDurationCurves

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

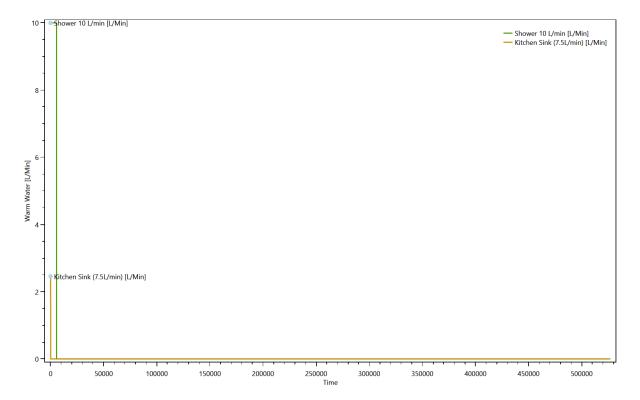
Cold Water



Electricity



Warm Water

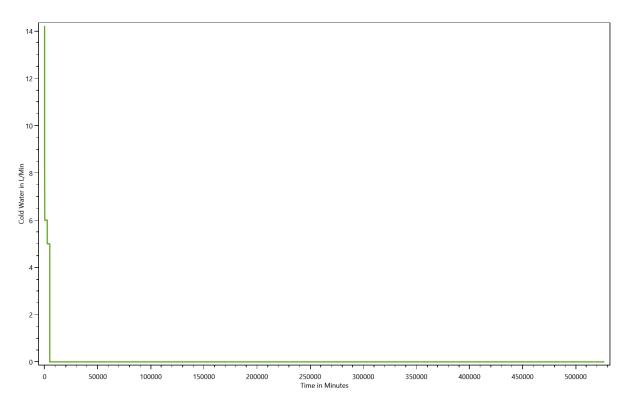


Duration curve for each load type

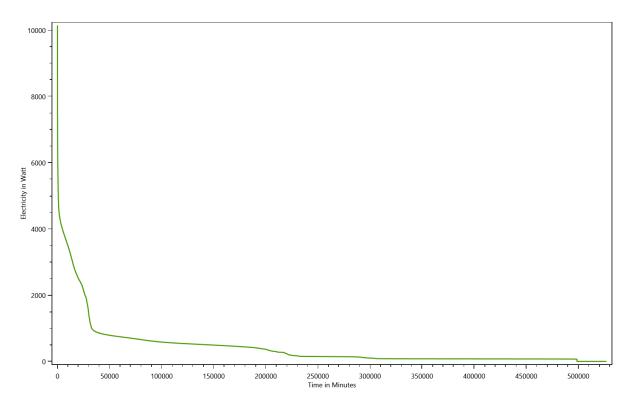
This is made from the files starting with: DurationCurve

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

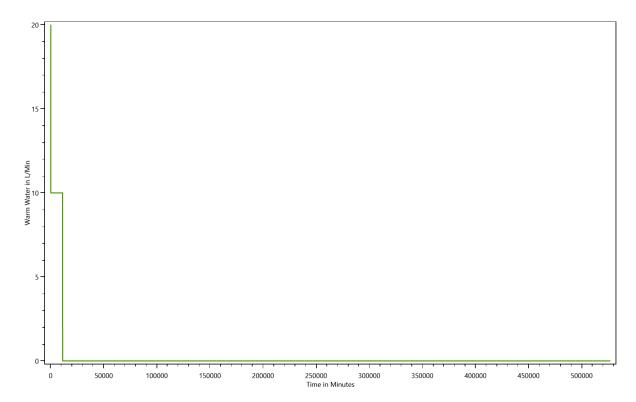
Cold Water



Electricity



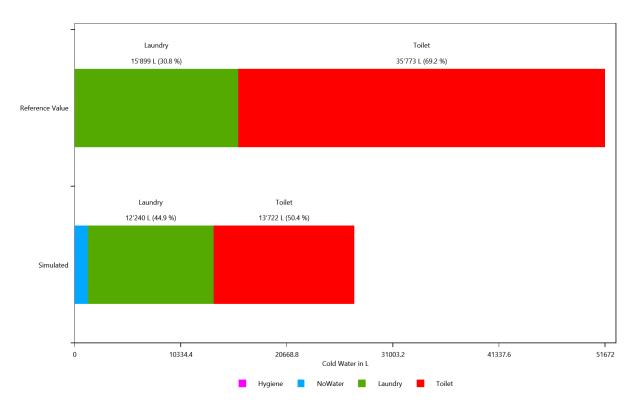
Warm Water



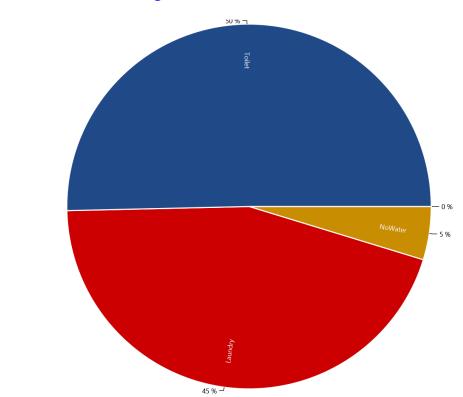
Grouped energy use for each load type for each device

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.

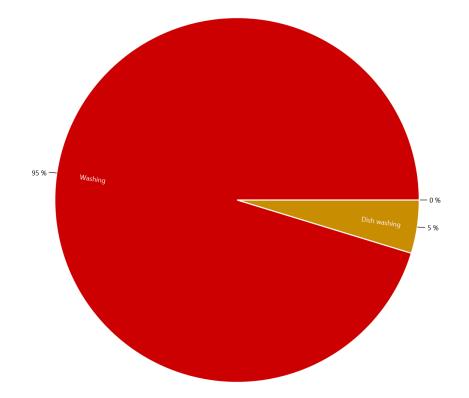


HH0 - Destatis Water Usage Statistics - Cold Water

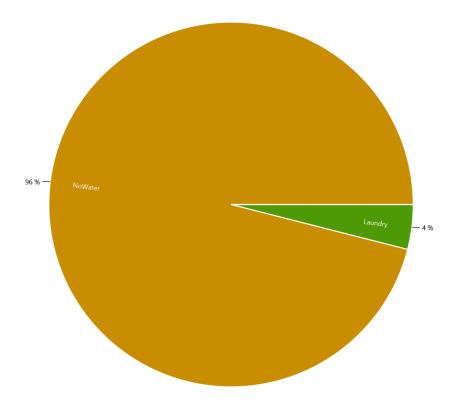


HH0 - Destatis Water Usage Statistics - Cold Water

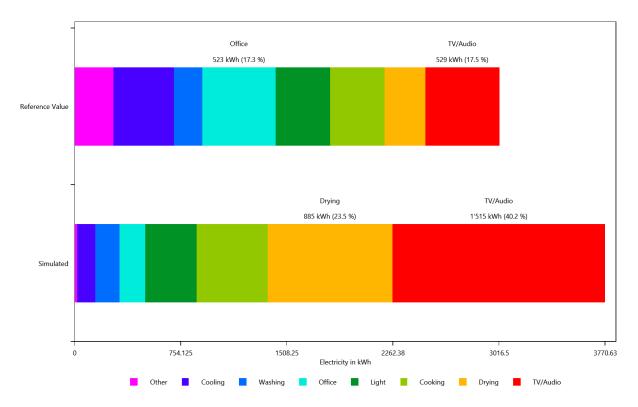
HH0 - Energieagentur - Cold Water



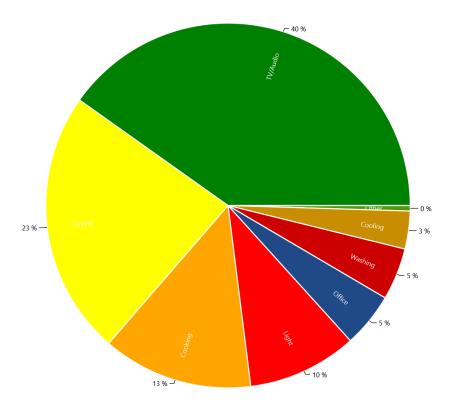




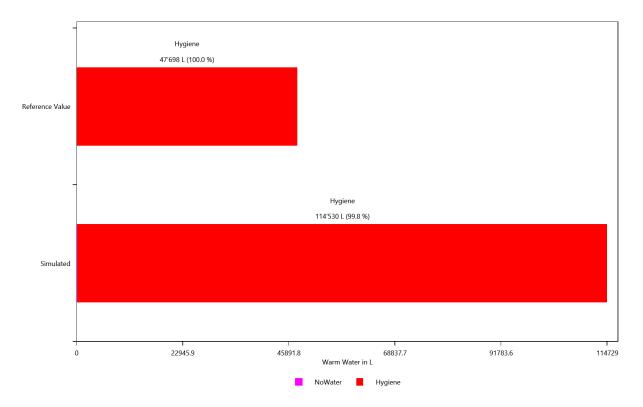
HH0 - Energieagentur - Electricity

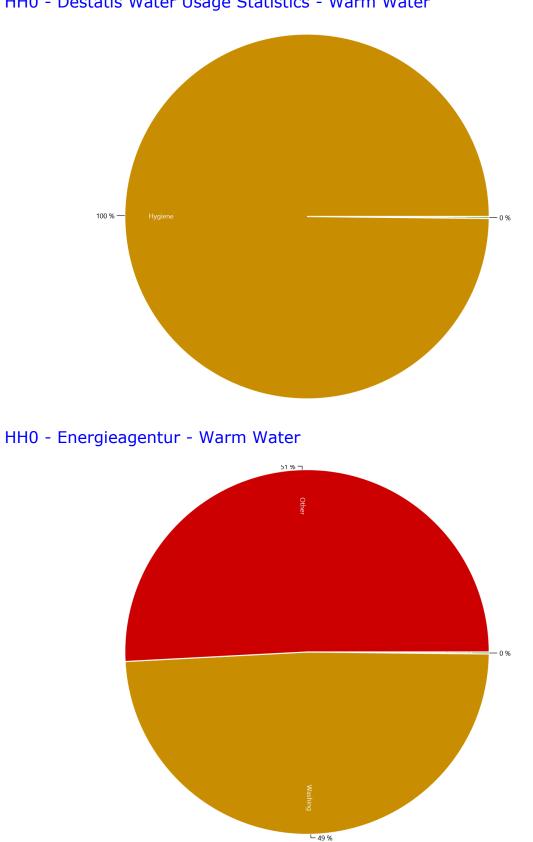


HH0 - Energieagentur - Electricity



HH0 - Destatis Water Usage Statistics - Warm Water





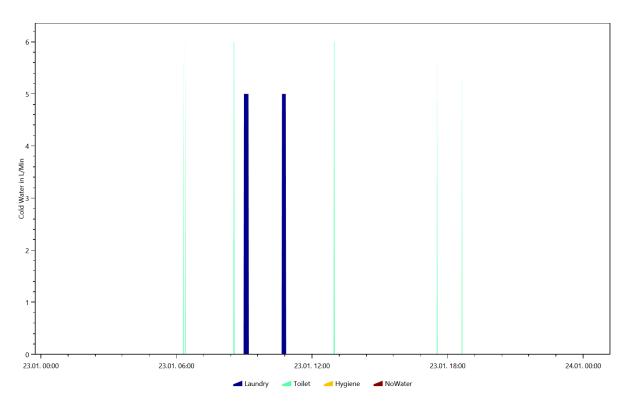
HH0 - Destatis Water Usage Statistics - Warm Water

Example of the device profiles for each load type

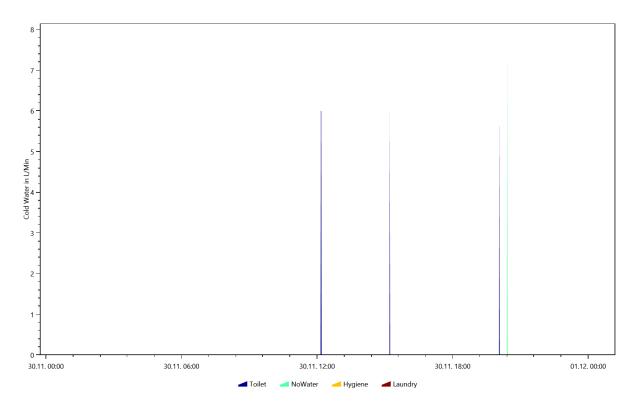
This is made from the files starting with: DeviceProfiles

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

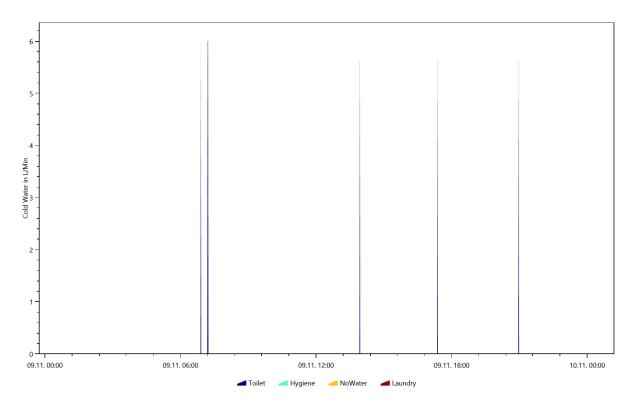
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.1.23



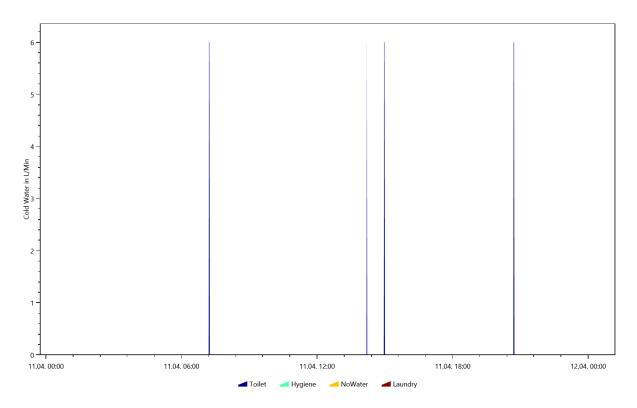
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.11.30



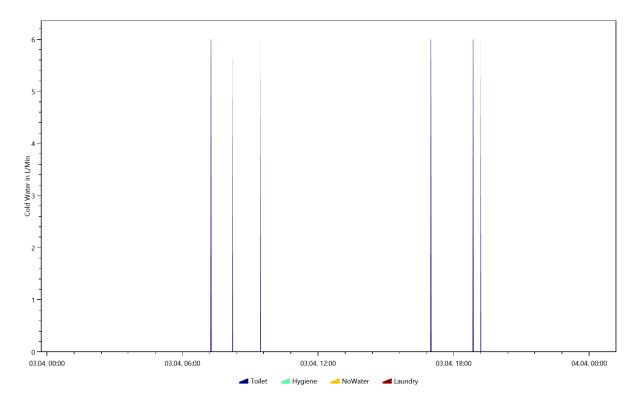
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.11.9

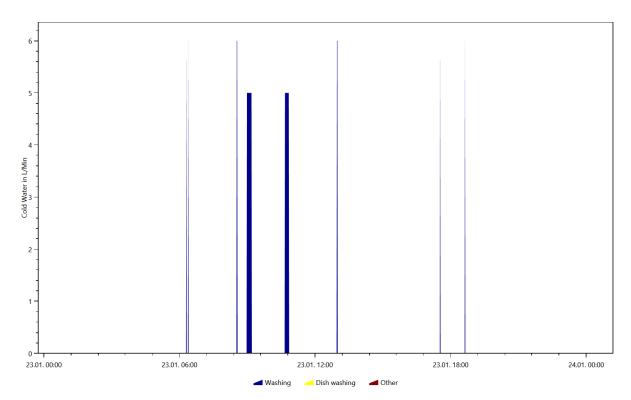


Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.4.11



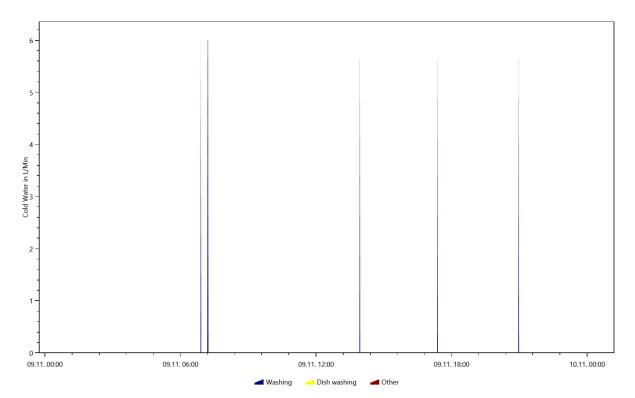
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.4.3



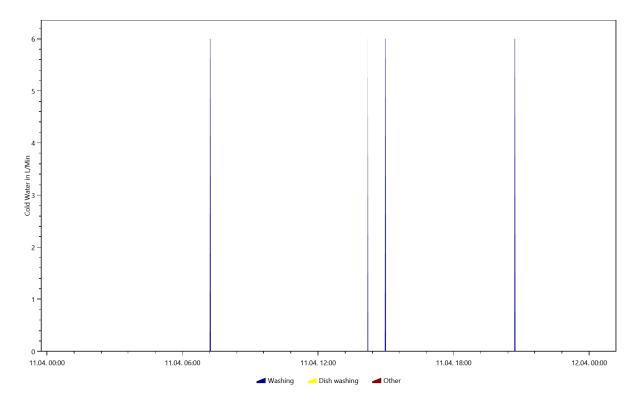


Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.1.23

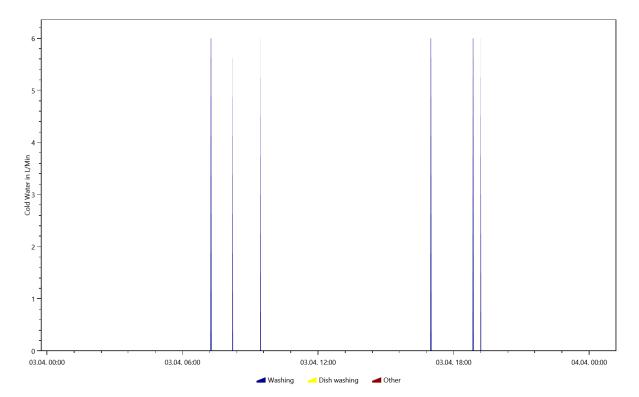
Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.11.9



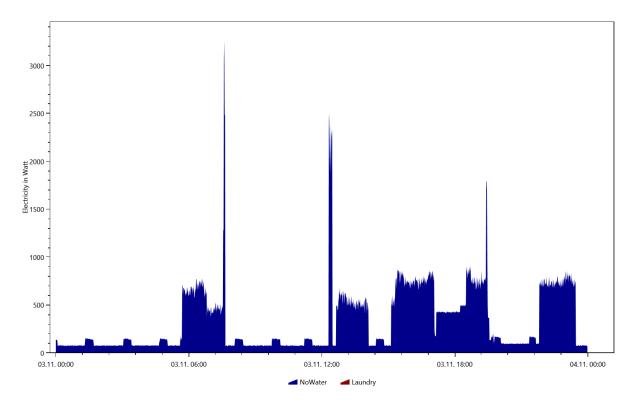




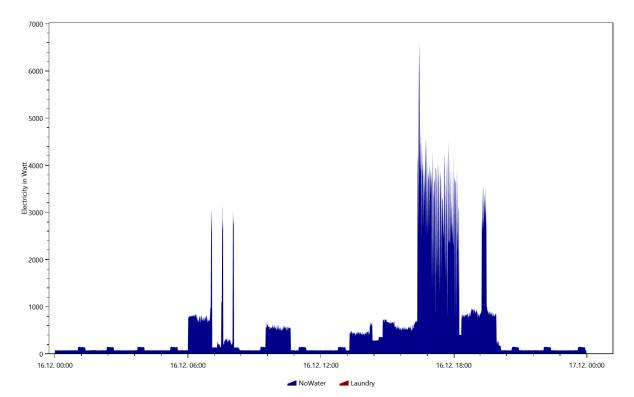
Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.4.3



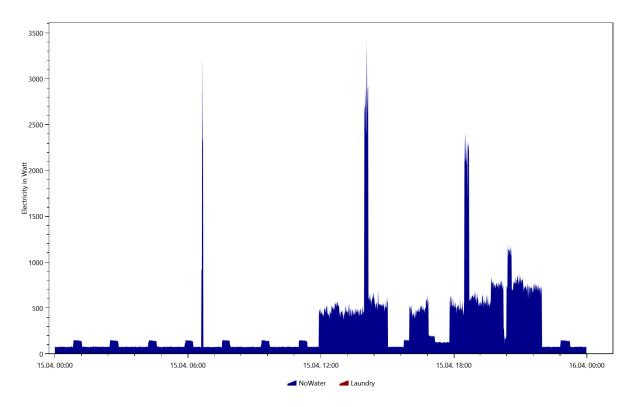
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.11.3



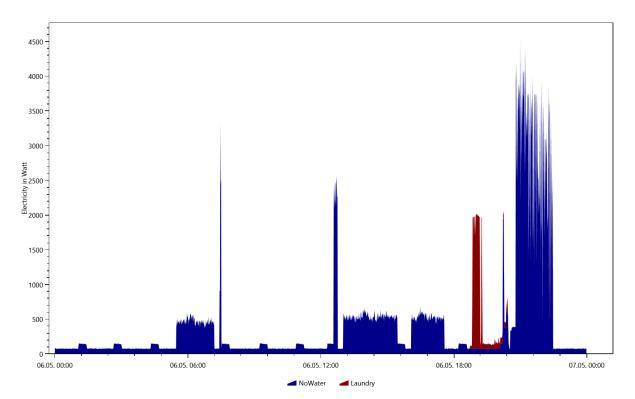
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.12.16



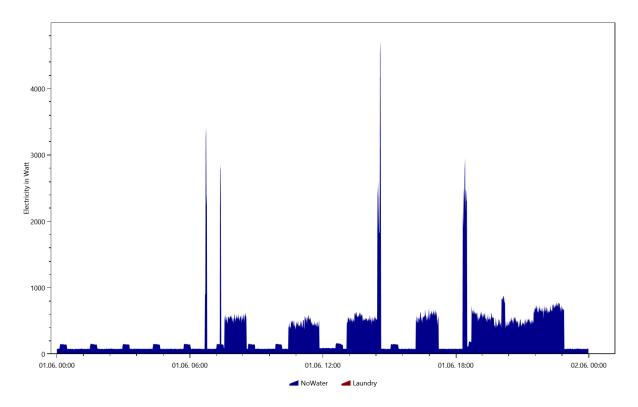
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.4.15



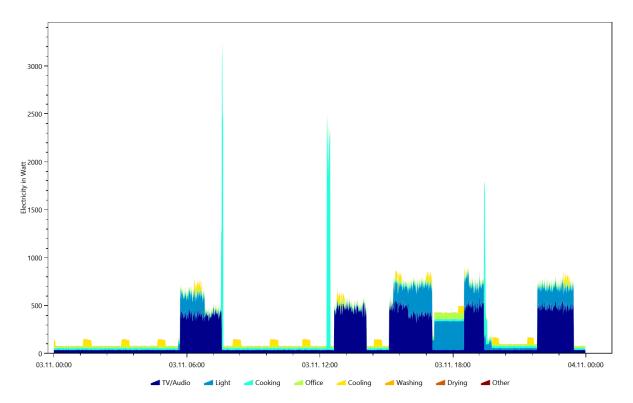
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.5.6

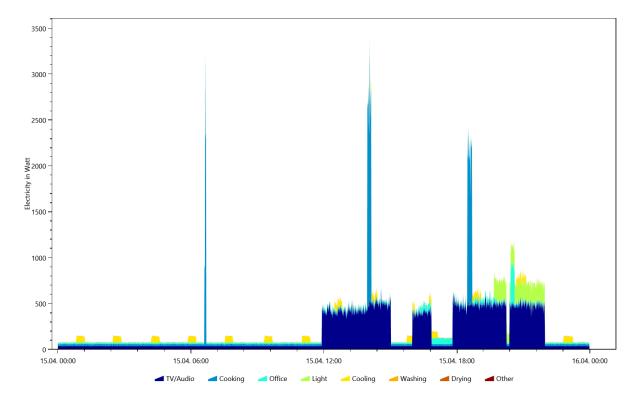


Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.6.1



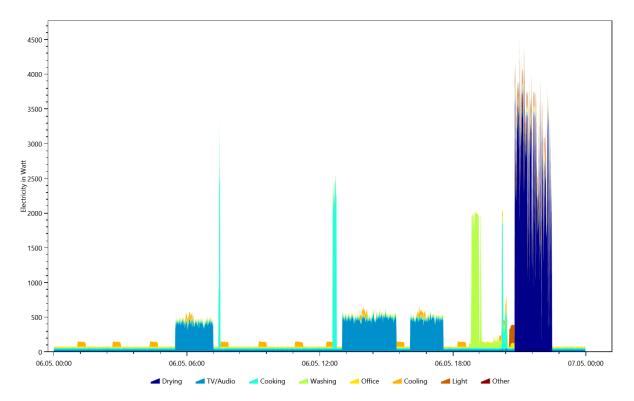
Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.11.3

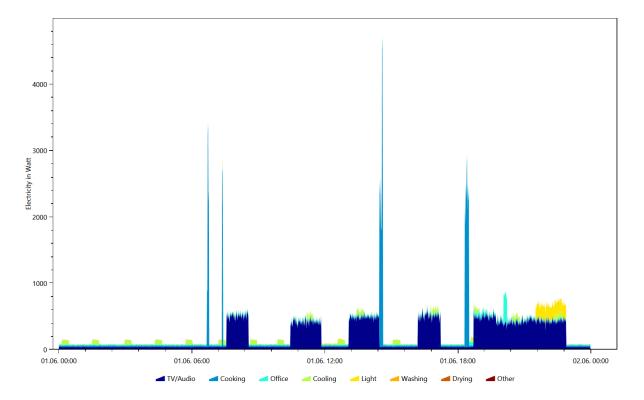




Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.4.15

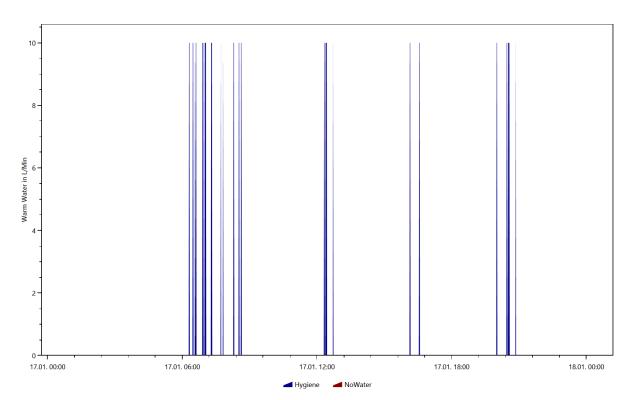
Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.5.6



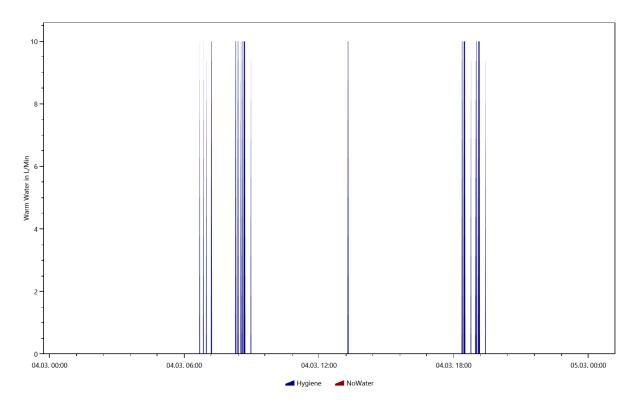


Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.6.1

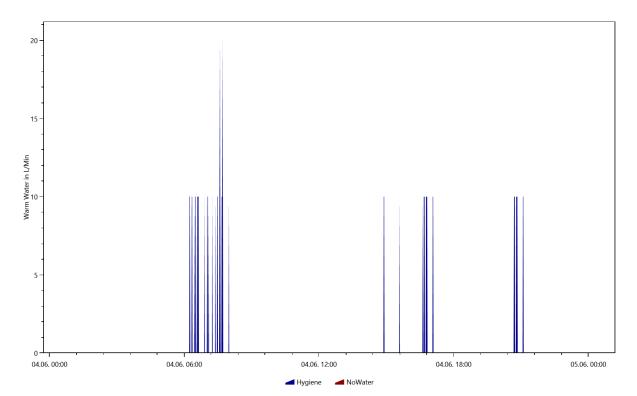
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.1.17



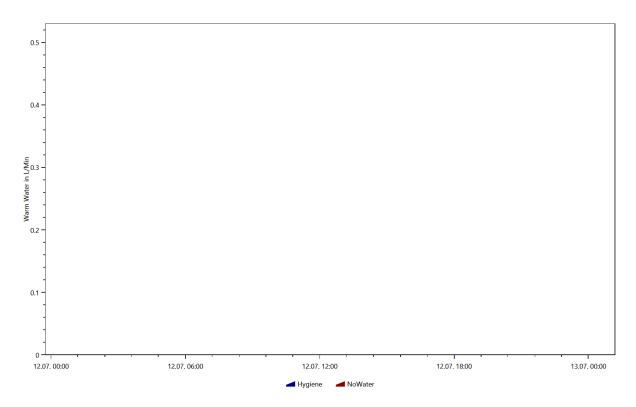
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.3.4



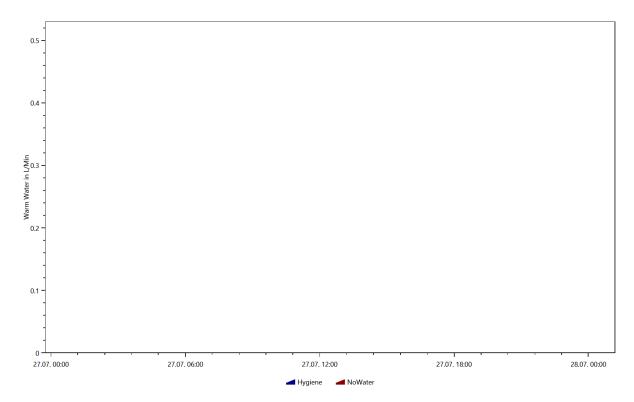
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.6.4



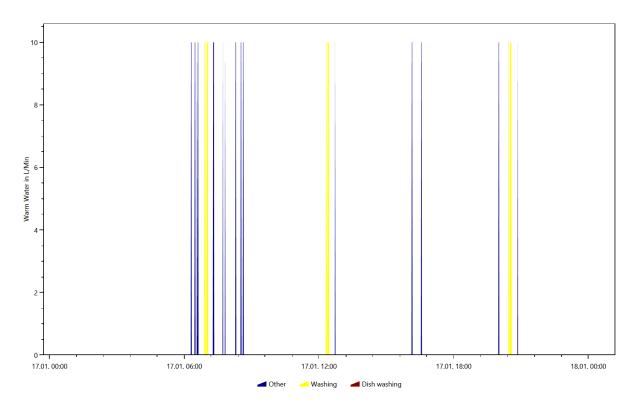
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.7.12



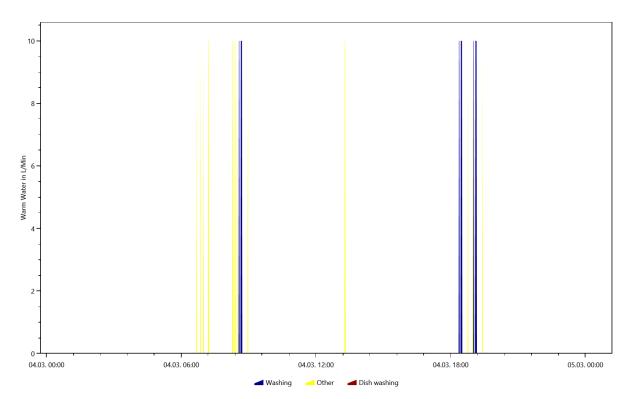
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.7.27

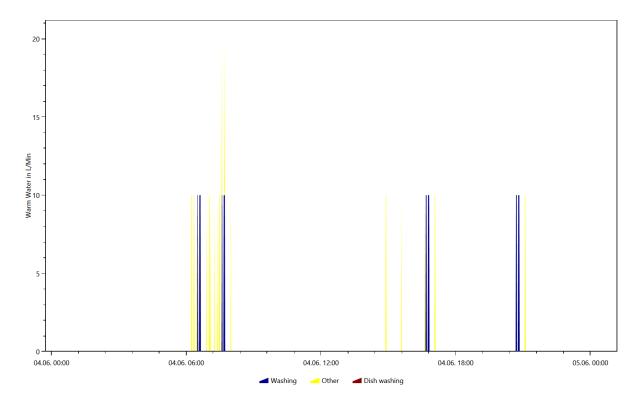


Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.1.17



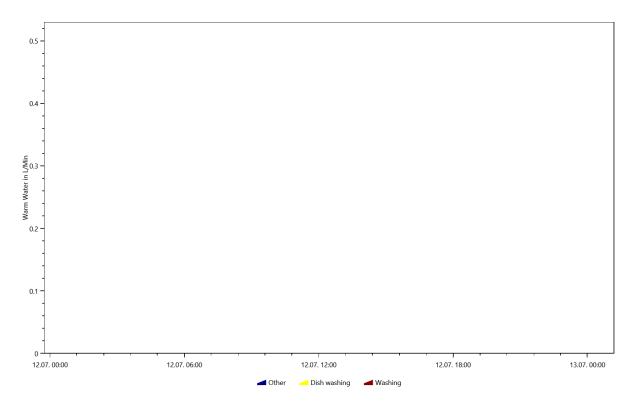






Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.6.4

Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.7.12

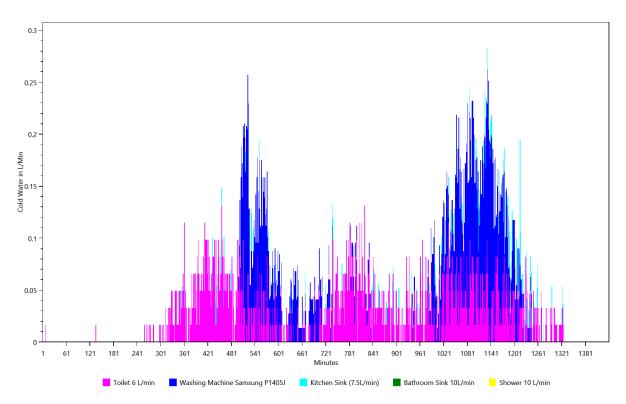


Overview of the time and power of the use per load type per device

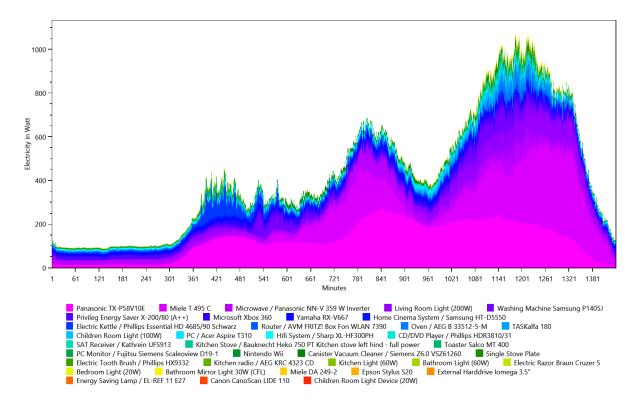
This is made from the files starting with: TimeOfUseEnergyProfiles

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

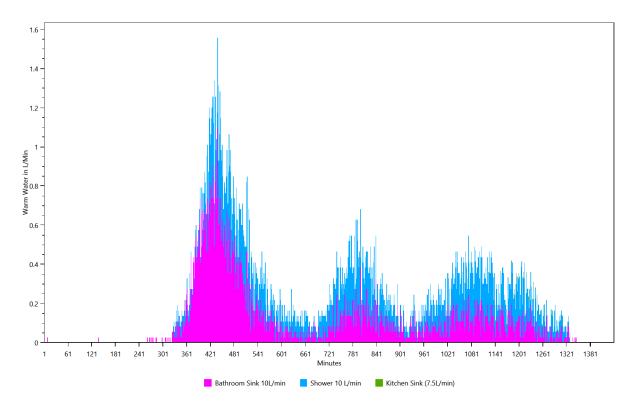
Cold Water



Electricity



Warm Water

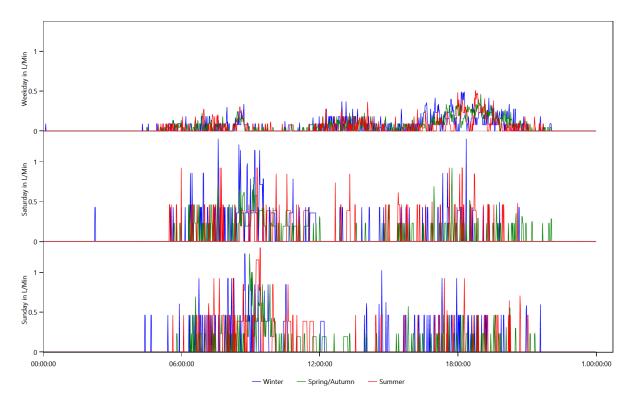


Energy use per load type during different seasons, split by weekday/saturday/sunday

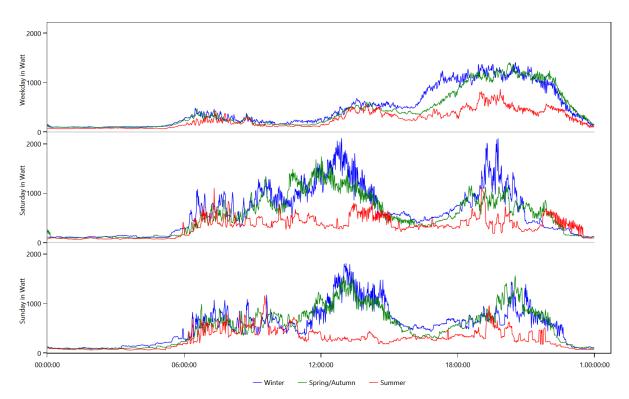
This is made from the files starting with: WeekdayProfiles

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

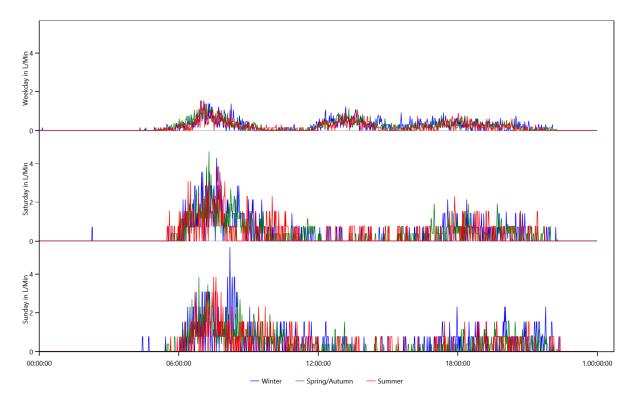
Cold Water



Electricity





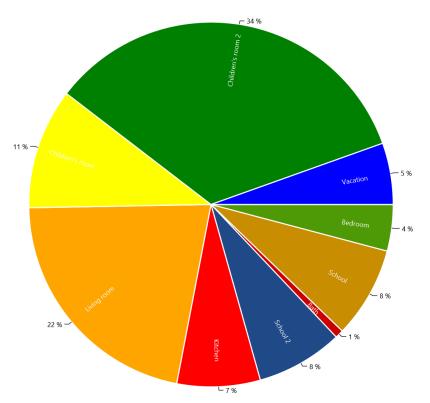


Location Distribution per Person

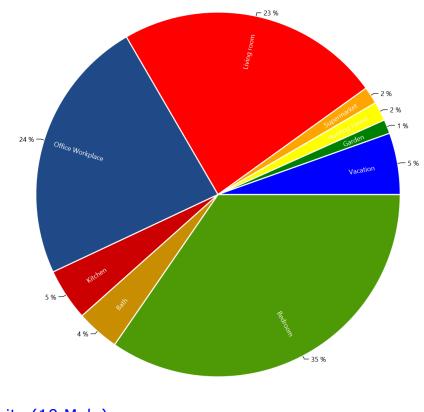
This is made from the files starting with: LocationStatistics

These charts show where the persons spend their time.

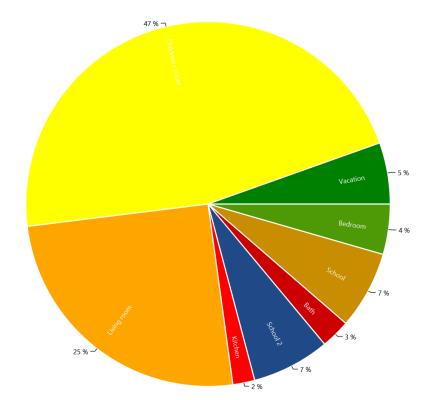
CHR42 Jessica (7 Female)



CHR42 Max (42 Male)



CHR42 Moritz (10 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;CHR42 Jessica (7/Female);sleep bed 04 (10 h) Child;sleep;False; 0;01.01.2016 00:00;CHR42 Max (42/Male);sleep bed 08 (08 h);sleep;False; 0;01.01.2016 00:00;CHR42 Moritz (10/Male);sleep bed 03 (10 h) Child;sleep;False; 374;01.01.2016 06:14;CHR42 Jessica (7/Female);go to primary school ;school;False; 477;01.01.2016 07:57;CHR42 Max (42/Male);get ready in the morning (men);hygiene;False; 478;01.01.2016 07:58;CHR42 Moritz (10/Male);go to primary school ;school;False; 489;01.01.2016 08:09;CHR42 Max (42/Male);eat small breakfast (25min) interruping subaff, no alarm;cooking;False; 512;01 01 2016 08:32;CHR42 Max (42/Male);work at the office from 8:00 (9 h);work:False;

512;01.01.2016 08:32;CHR42 Max (42/Male);work at the office from 8:00 (9 h);work;False;

777;01.01.2016 12:57;CHR42 Jessica (7/Female);go to the toilet;hygiene;False;

783;01.01.2016 13:03;CHR42 Jessica (7/Female);watch a movie for 1 h 30 min with home cinema system;Passive Entertainment (TV etc.);False;

826;01.01.2016 13:46;CHR42 Moritz (10/Male);go to the toilet;hygiene;False;

832;01.01.2016 13:52;CHR42 Moritz (10/Male);take a shower (men);hygiene;False;

855;01.01.2016 14:15;CHR42 Moritz (10/Male);heat up leftovers;cooking;False;

866;01.01.2016 14:26;CHR42 Jessica (7/Female);eat a cooked meal (interrupting) (heat up leftovers);cooking;False;

874;01.01.2016 14:34;CHR42 Jessica (7/Female);watch a movie for 1 h 30 min with home cinema system;Passive Entertainment (TV etc.);False;

874;01.01.2016 14:34;CHR42 Moritz (10/Male);read a book on the couch all the time;Offline Entertainment;False;

875;01.01.2016 14:35;CHR42 Jessica (7/Female);take a nap;sleep;False;

936;01.01.2016 15:36;CHR42 Jessica (7/Female);read a book (1 h);Offline Entertainment;False;

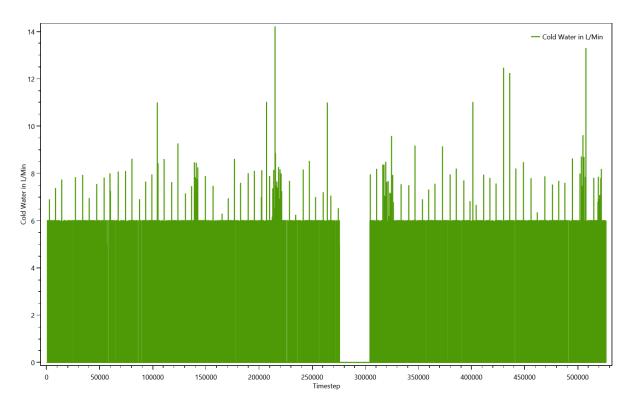
987;01.01.2016 16:27;CHR42 Jessica (7/Female);play with toys (1 h);Offline Entertainment;False;

Sum Profiles

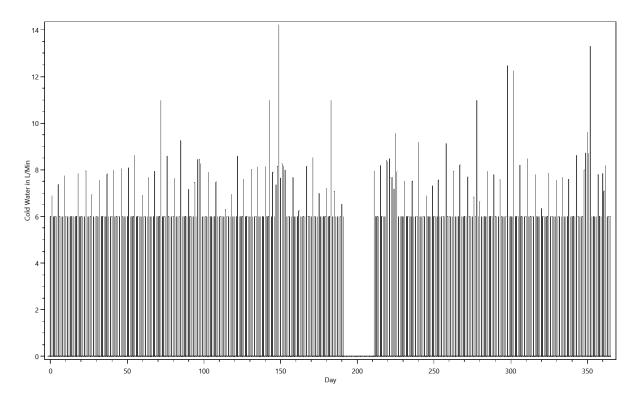
This is made from the files starting with: SumProfiles

This shows the energy use during the simulation.

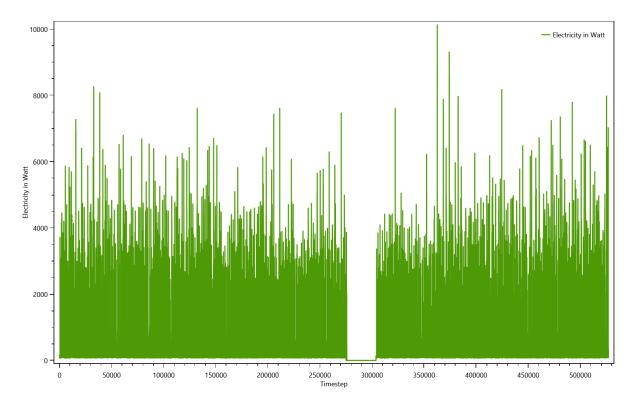
Summed up curve for Cold Water from SumProfiles.Cold Water.png



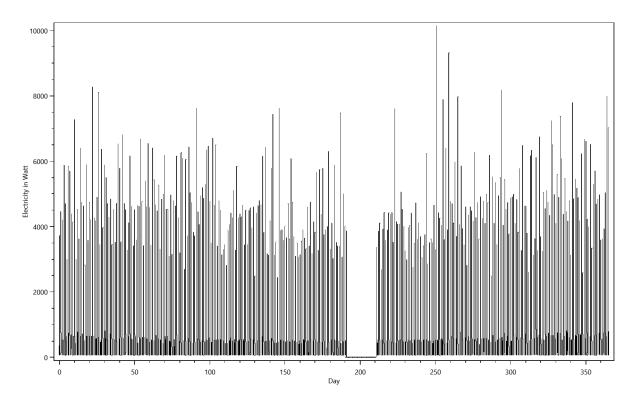
Summed up curve for Cold WaterMinMax from SumProfiles.Cold WaterMinMax..png



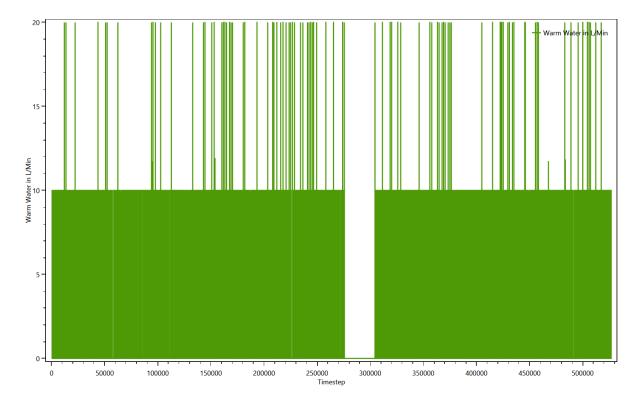
Summed up curve for Electricity from SumProfiles.Electricity.png

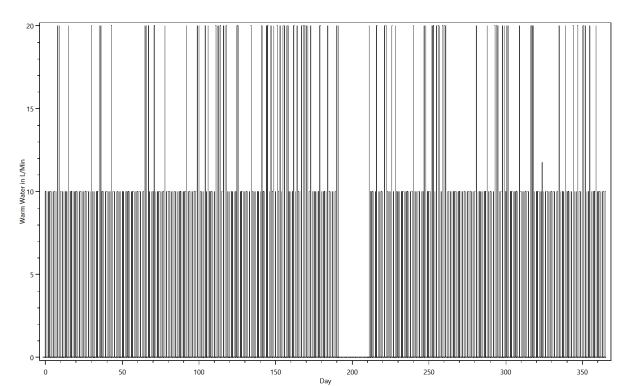


Summed up curve for ElectricityMinMax from SumProfiles.ElectricityMinMax..png



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.CHR42 Single man with 2 children, with work 0.txt

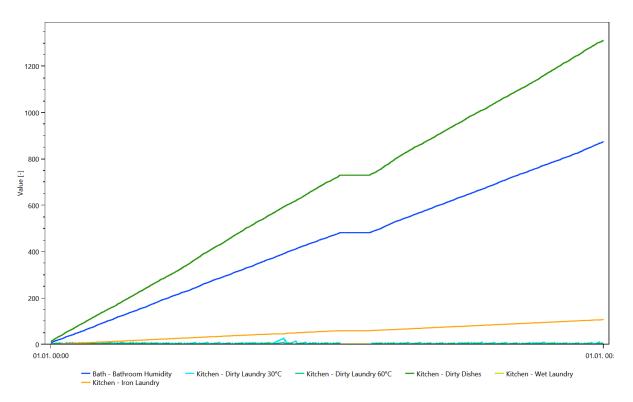
Device;Load Type;Profile;Number of Activations Bathroom Light (60W); Electricity; Bath - light [Synthetic for Light Device]; 911 Bathroom Mirror Light 30W (CFL); Electricity; Bath - light [Synthetic for Light Device]; 911 Bathroom Sink 10L/min; Warm Water; 0 h 01 min 100% [Synthetic]; 3925 Bed 3 (Children); None; 10 h 0 min 100% [Synthetic]; 349 Bed 4;None;10 h 0 min 100% [Synthetic];349 Bed 8;None;08 h 0 min 100% [Synthetic]:337 Bedroom Light (20W); Electricity; Bedroom - light [Synthetic for Light Device]; 203 Board Games; None; 01 h 0 min 100% [Synthetic]; 248 Book;None;01 h 0 min 100% [Synthetic];102 CD/DVD Player / Phillips HDR3810/31:Electricity:01 h 30 min 100% [Synthetic]:524 CD/DVD Player / Phillips HDR3810/31;Electricity;02 h 0 min 100% [Synthetic];19 CD/DVD Player / Phillips HDR3810/31;Electricity;Standby TV / Receiver 1 h 0 min 3% [Synthetic];8312 Canister Vacuum Cleaner / Siemens Z6.0 VSZ61260;Electricity;0 h 30 min 100% [Synthetic];30 Canon CanoScan LIDE 110;Electricity;0 h 10 min 100% [Synthetic];81 Children Room Light (100W); Electricity; Children's room - light [Synthetic for Light Device]; 474 Cleanser; None; 01 h 0 min 100% [Synthetic]; 89 Cloth Drying Rack; None; 0 h 20 min 100% [Synthetic]; 44 Couch;None;01 h 0 min 100% [Synthetic];293 Couch;None;02 h 0 min 100% [Synthetic];1287

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

