

Overview of the results of the household CHR05 Family, 3 children, both with work 0

Calculation Time

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

Energy Intensity: Random

Seed 4556

LoadProfileGenerator 5.8.0.16019

by Noah Pflugradt

<http://www.loadprofilegenerator.de>

Rendering date:16.12.2016 09:12:50

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Totals

Totals for each Loadtype

Load Type	Value	Unit
Cold Water	72187.05	L
Electricity	4001.24	kWh
Warm Water	89108.93	L

Totals for each Loadtype per Day

Load Type	Value	Unit
Cold Water	197.23	L
Electricity	10.93	kWh
Warm Water	243.47	L

Minimum and Maximum for each Loadtype

Household	Minimum	Maximum	Unit
Cold Water	0.00	20.05	L/Min
Electricity	0.16	8914.97	Watt
Warm Water	0.00	11.44	L/Min

Totals for each Loadtype per Person

Load Type	Value	Unit
Cold Water	14437.41	L
Electricity	800.25	kWh

Warm Water	17821.79	L
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Totals for each Loadtype per Person per Day

Load Type	Value	Unit
Cold Water	39.45	L
Electricity	2.19	kWh
Warm Water	48.69	L

Persons

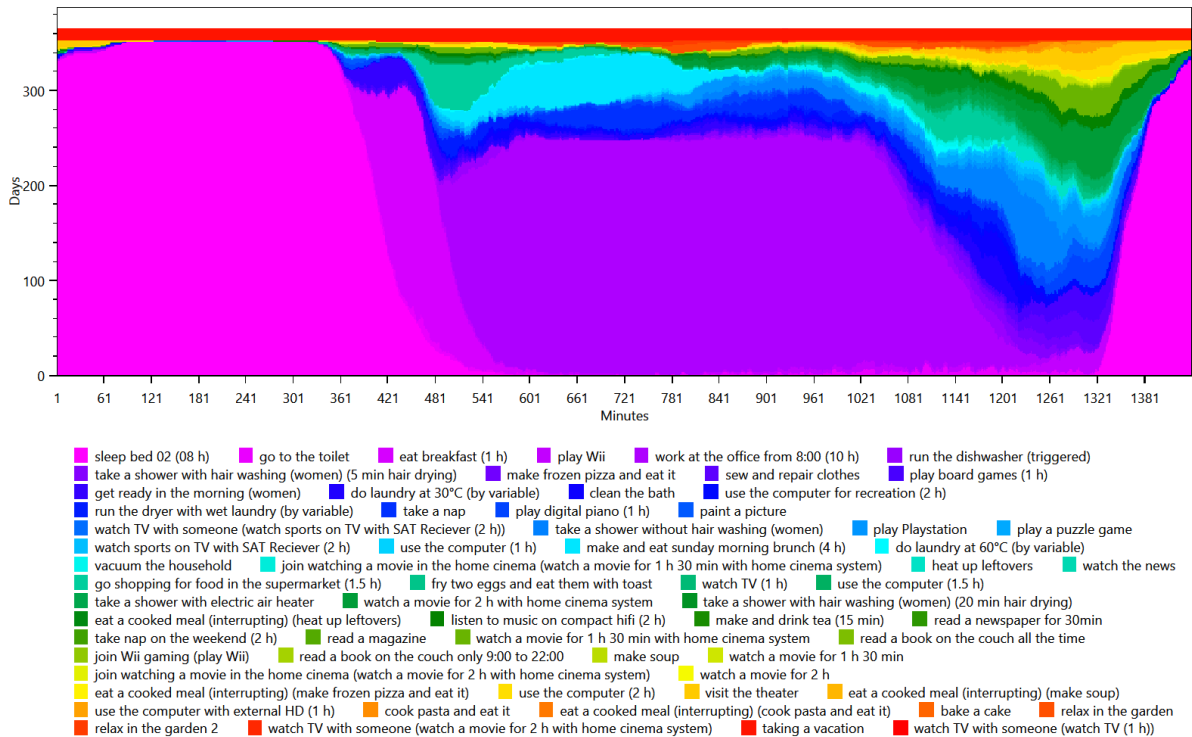
- HH0
 - CHR05 Liz 2 (35/Female)(35/Female)
 - CHR05 Mark 2 (13/Male)(13/Male)
 - CHR05 Nate 2 (40/Male)(40/Male)
 - CHR05 Will 2 (6/Male)(6/Male)
 - CHR05 Zoe 2 (4/Female)(4/Female)

Activity Frequency Charts

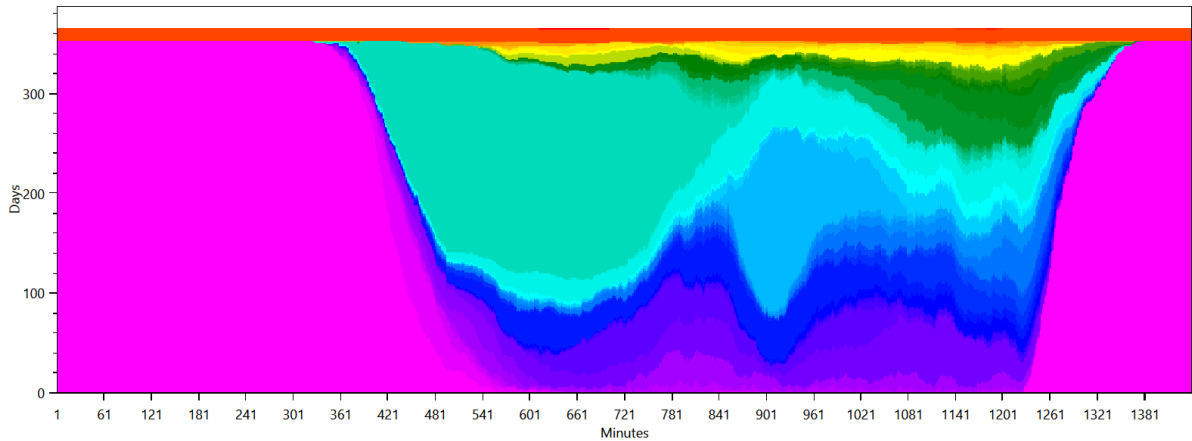
This is made from the files starting with: ActivityFrequenciesPerMinute

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.

HH0 - CHR05 Liz 2 (35 Female)

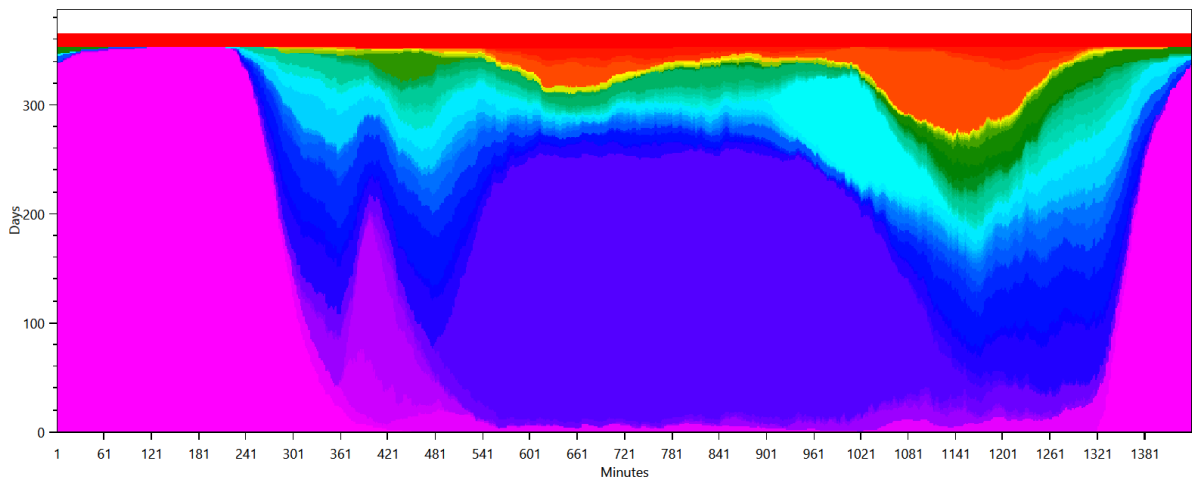


HH0 - CHR05 Mark 2 (13 Male)



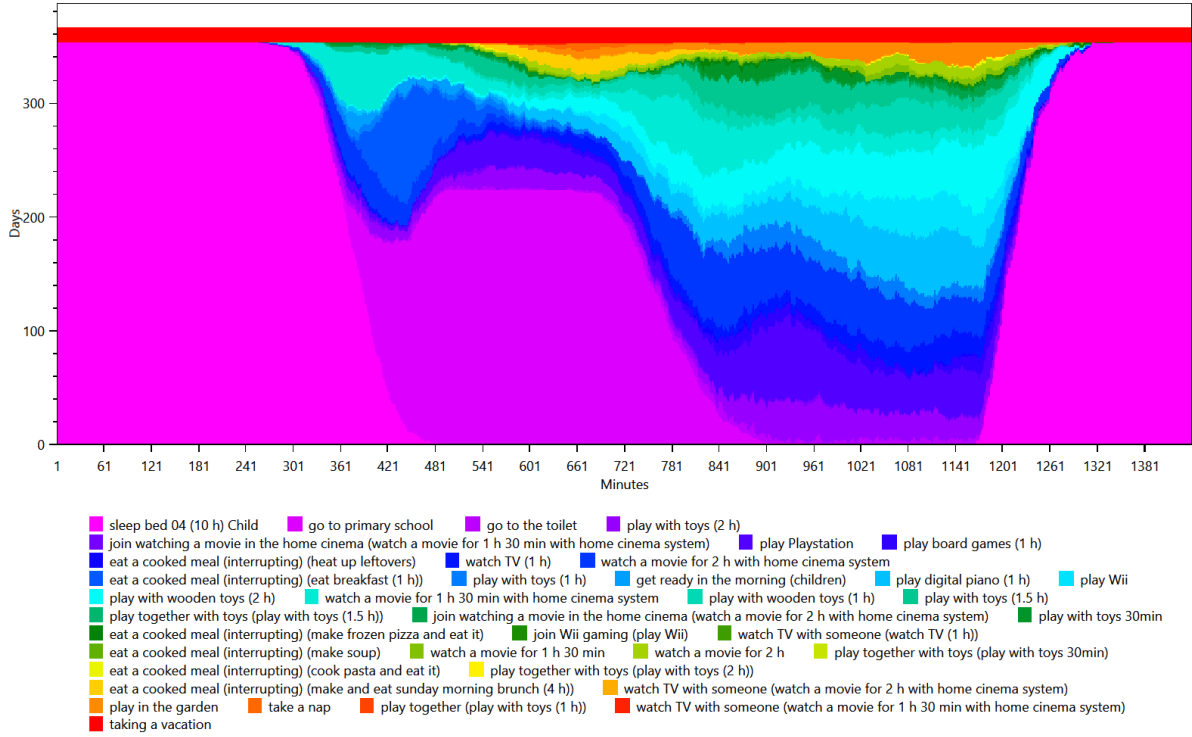
- sleep bed 03 (10 h) Child
- eat a cooked meal (interrupting) (eat breakfast (1 h))
- get ready in the morning (children)
- go to the toilet
- take a shower (men)
- eat small breakfast (25min) interrupting subaff, no alarm
- play Playstation
- take a nap
- play with toys 30min
- watch TV (1 h)
- play with toys for 2 h
- use the computer (1 h)
- watch a movie for 1 h 30 min with home cinema system
- play with toys (1.5 h)
- play Wii
- eat a cooked meal (interrupting) (make frozen pizza and eat it)
- play digital piano (1 h)
- use the computer with external HD (1 h)
- watch sports on TV with SAT Reciever (2 h)
- study at home
- use the computer (1.5 h)
- eat a cooked meal (interrupting) (heat up leftovers)
- play with toys (1 h)
- watch a movie for 2 h with home cinema system
- paint a picture
- go to grammer school
- make soup
- heat up leftovers
- play board games (1 h)
- eat a cooked meal (interrupting) (cook pasta and eat it)
- play together with toys (play with toys (1.5 h))
- take singing lessons
- play with toys (2 h)
- make frozen pizza and eat it
- play a puzzle game
- play together with toys (play with toys (2 h))
- listen to music on compact hifi (2 h)
- eat a cooked meal (interrupting) (make soup)
- join Wii gaming (play Wii)
- join watching a movie in the home cinema (watch a movie for 2 h with home cinema system)
- join watching a movie in the home cinema (watch a movie for 1 h 30 min with home cinema system)
- eat a cooked meal (interrupting) (make and eat sunday morning brunch (4 h))
- watch TV with someone (watch a movie for 1 h 30 min)
- play together with toys (play with toys (1 h))
- relax in the garden 2
- play in the garden
- read a book on the couch only 9:00 to 22:00
- make and drink tea (15 min)
- read a book on the couch all the time
- read a book (1 h)
- read a magazine
- take nap on the weekend (2 h)
- taking a vacation
- watch TV with someone (watch a movie for 1 h 30 min with home cinema system)
- play together with toys (play with toys 30min)
- watch a movie for 1 h 30 min

HH0 - CHR05 Nate 2 (40 Male)

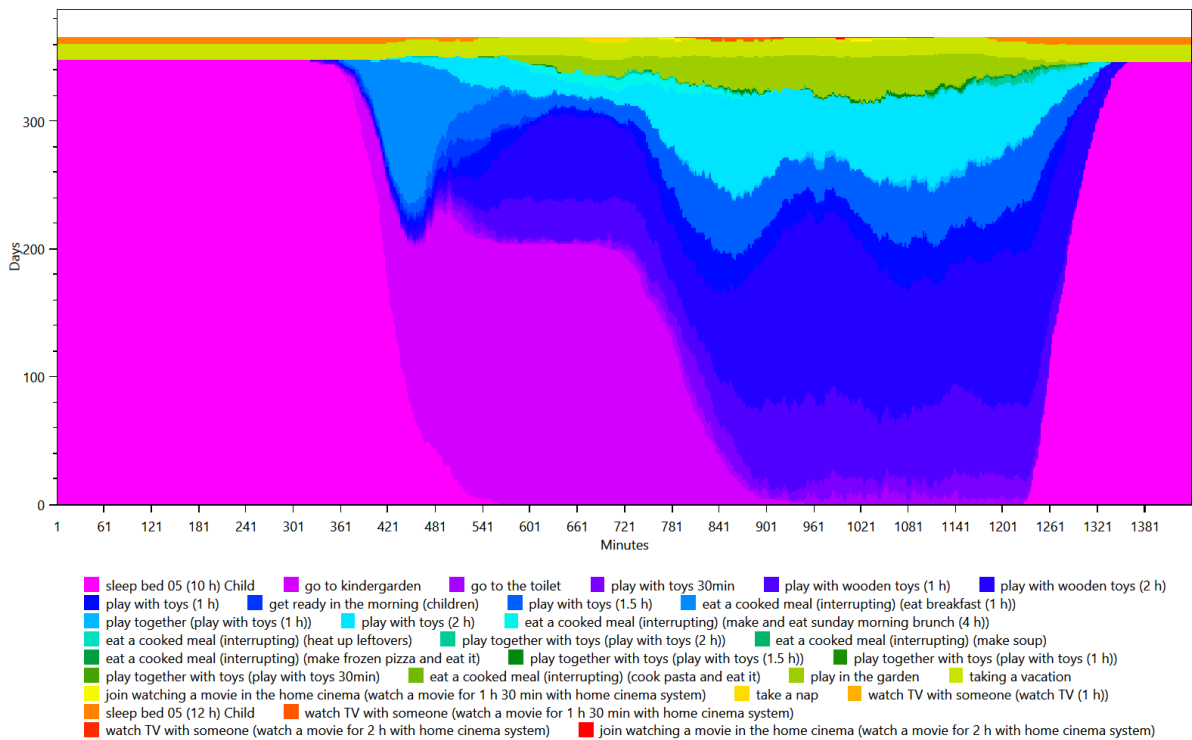


- sleep bed 01 (06 h)
- play Wii
- get ready in the morning (men)
- eat small breakfast (25min) interrupting subaff, no alarm
- take a shower (men)
- go to the toilet
- use the computer (1.5 h)
- work as teacher
- heat up leftovers
- play Playstation
- play board games (1 h)
- play digital piano (1 h)
- watch a movie for 2 h with home cinema system
- fry two eggs and eat them with toast
- use the computer (2 h)
- paint a picture
- bake a cake
- play a puzzle game
- join Wii gaming (play Wii)
- watch a movie for 1 h 30 min with home cinema system
- use the computer for recreation (2 h)
- take nap on the weekend (2 h)
- watch TV with someone (watch a movie for 1 h 30 min with home cinema system)
- use the computer (1 h)
- join watching a movie in the home cinema (watch a movie for 2 h with home cinema system)
- use the computer with external HD (1 h)
- watch TV with someone (watch a movie for 2 h with home cinema system)
- listen to music on compact hifi (2 h)
- join watching a movie in the home cinema (watch a movie for 1 h 30 min with home cinema system)
- eat a cooked meal (interrupting) (make soup)
- cook pasta and eat it
- make frozen pizza and eat it
- visit the theater
- eat a cooked meal (interrupting) (eat breakfast (1 h))
- make soup
- eat a cooked meal (interrupting) (heat up leftovers)
- eat breakfast (1 h)
- watch sports on TV with SAT Reciever (2 h)
- make and drink tea (15 min)
- watch TV (1 h)
- take a nap
- read a newspaper for 30min
- read a magazine
- watch TV with someone (watch a movie for 2 h)
- read a book on the couch only 9:00 to 22:00
- watch the news
- watch a movie for 2 h
- watch a movie for 1 h 30 min
- eat a cooked meal (interrupting) (make frozen pizza and eat it)
- do garden work every day
- relax in the garden
- relax in the garden 2
- taking a vacation

HH0 - CHR05 Will 2 (6 Male)



HH0 - CHR05 Zoe 2 (4 Female)

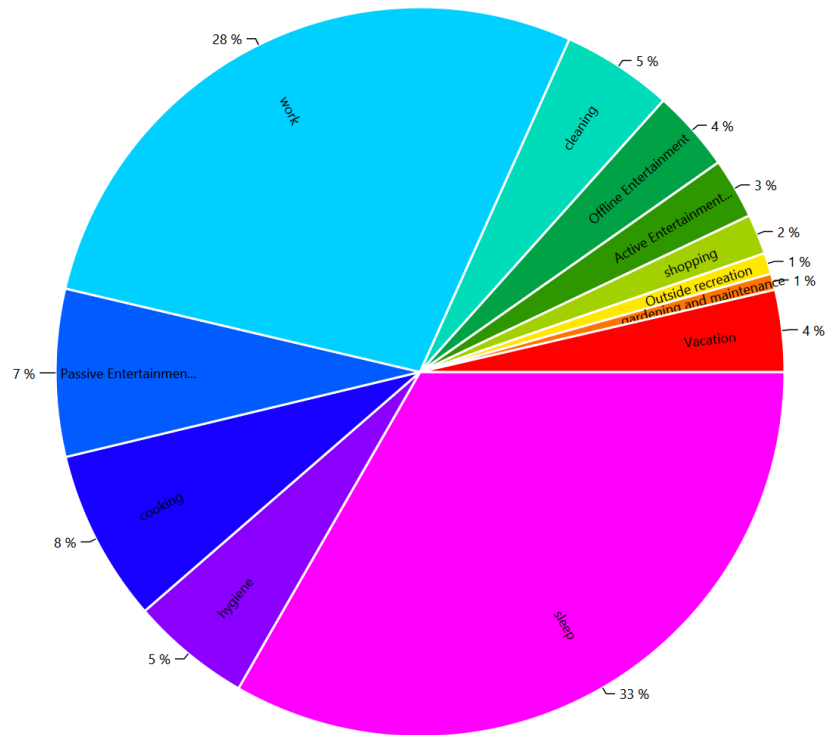


Activity Distribution per Person

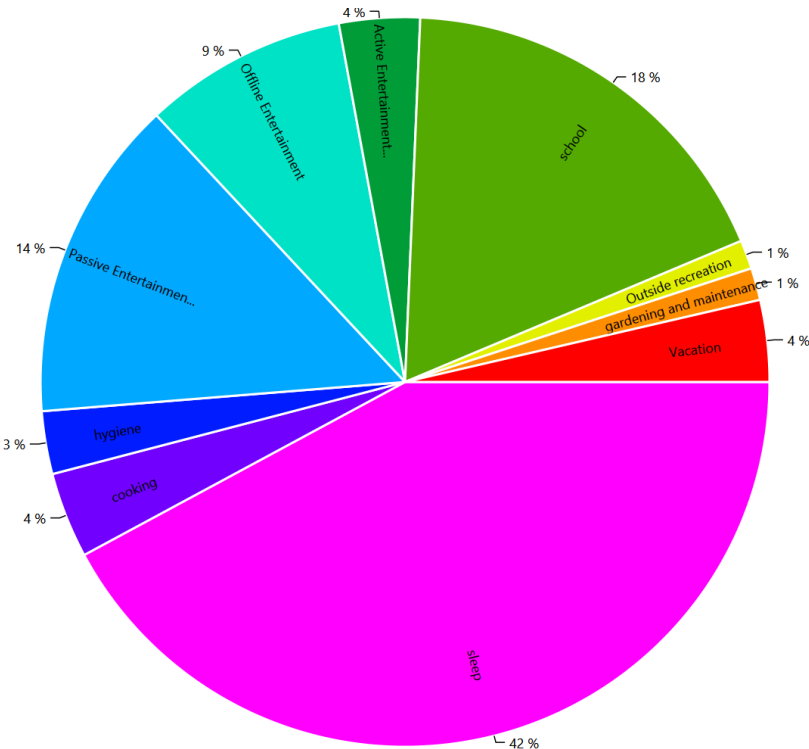
This is made from the files starting with: ActivityPercentage

This shows the distribution of the activities, grouped by the affordance AffordanceToCategories.

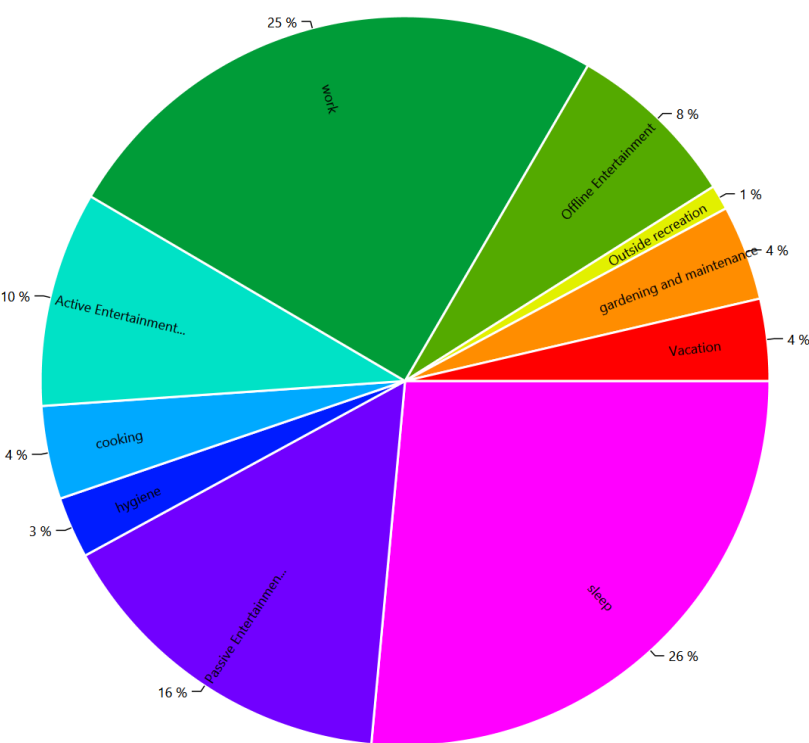
HH0 - CHR05 Liz 2 (35 Female)



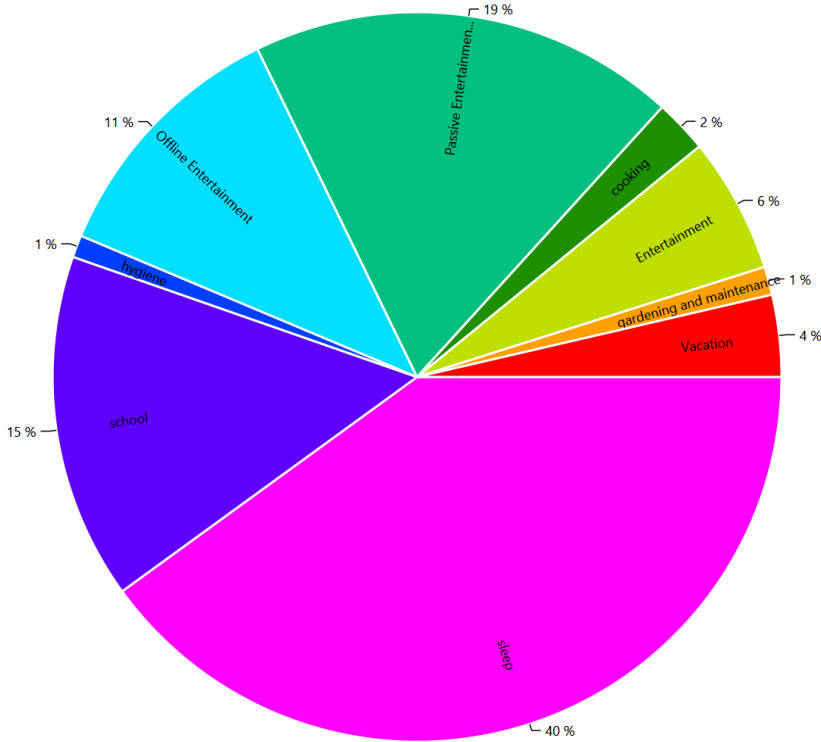
HH0 - CHR05 Mark 2 (13 Male)



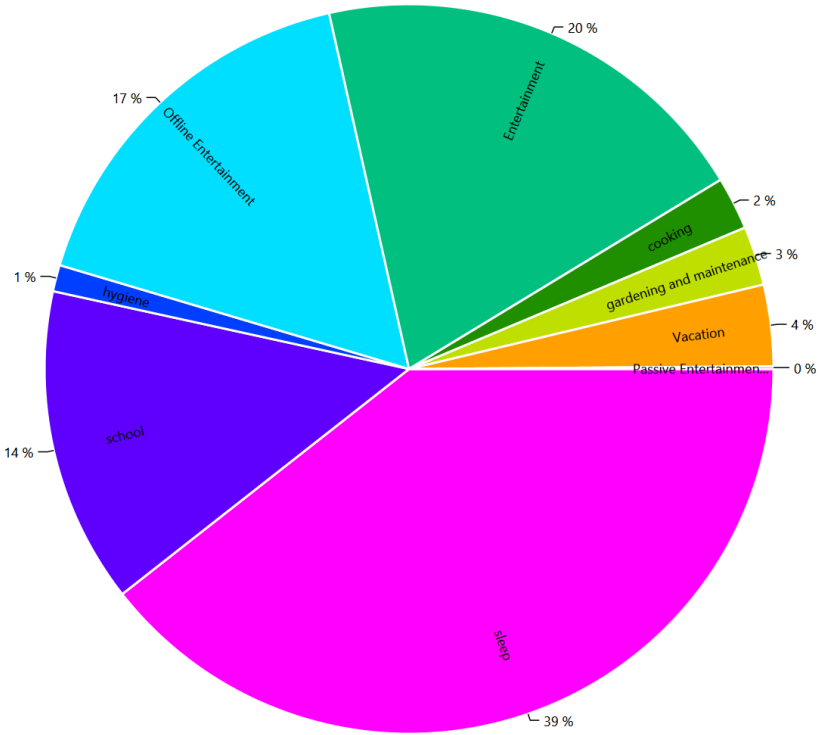
HH0 - CHR05 Nate 2 (40 Male)



HH0 - CHR05 Will 2 (6 Male)



HH0 - CHR05 Zoe 2 (4 Female)

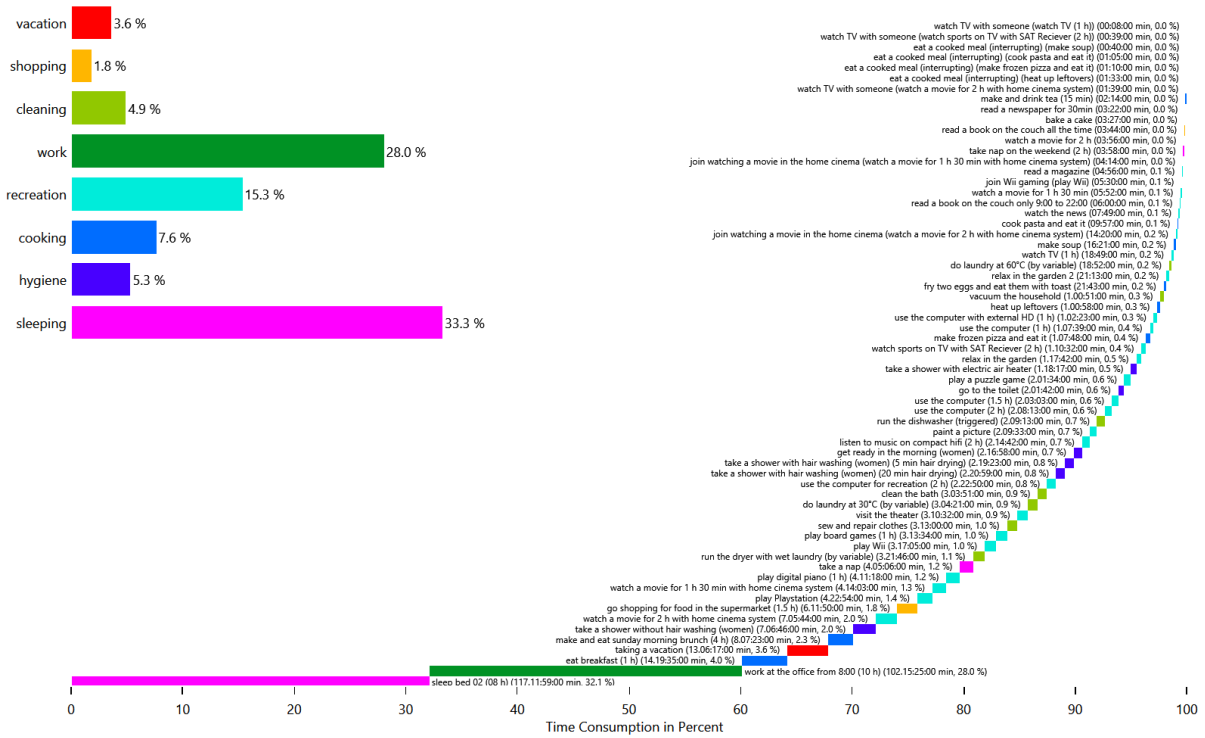


Time Use per Person per Affordance Per Person

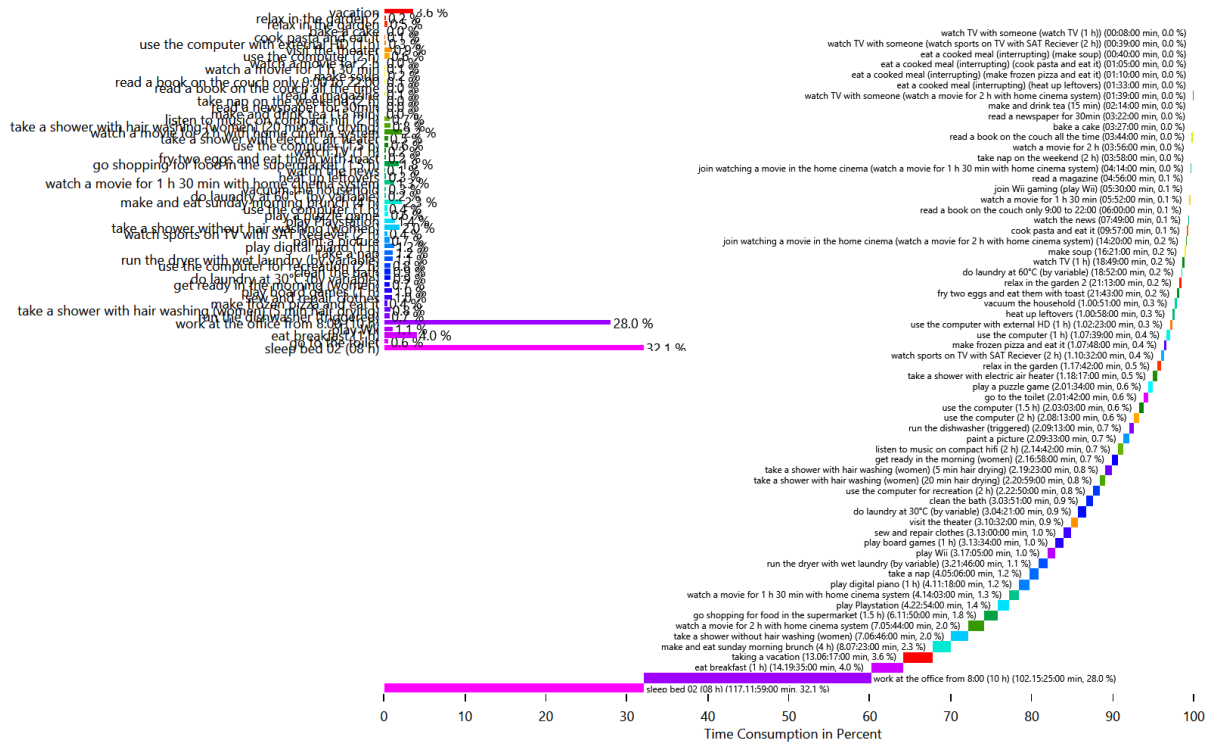
This is made from the files starting with: AffordanceTimeUse

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.

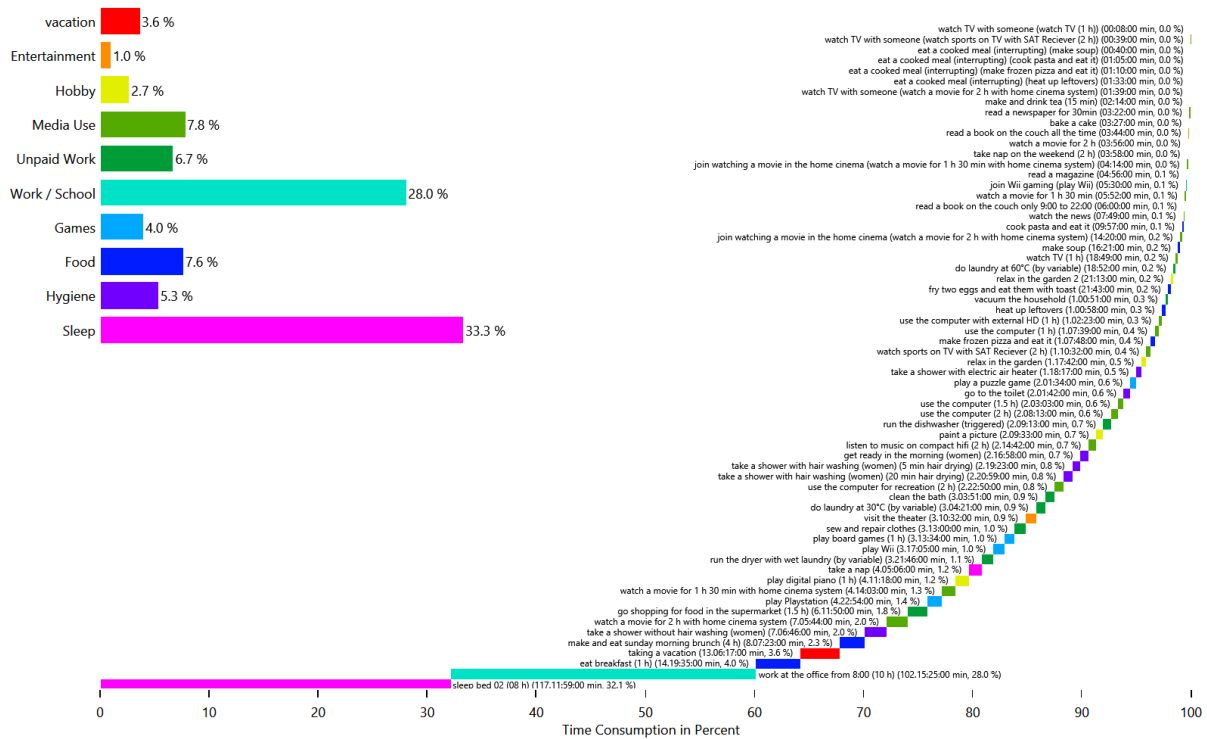
HH0 - CHR05 Liz 2 (35 Female)



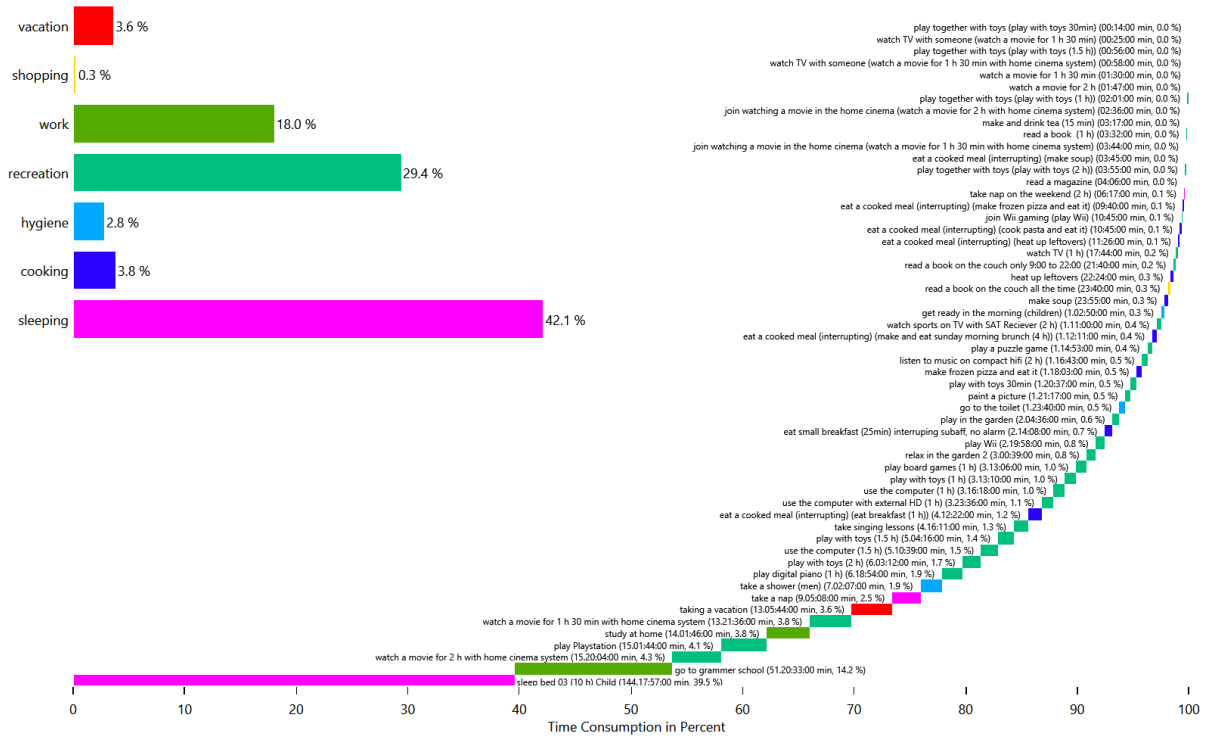
HH0 - CHR05 Liz 2 (35 Female)



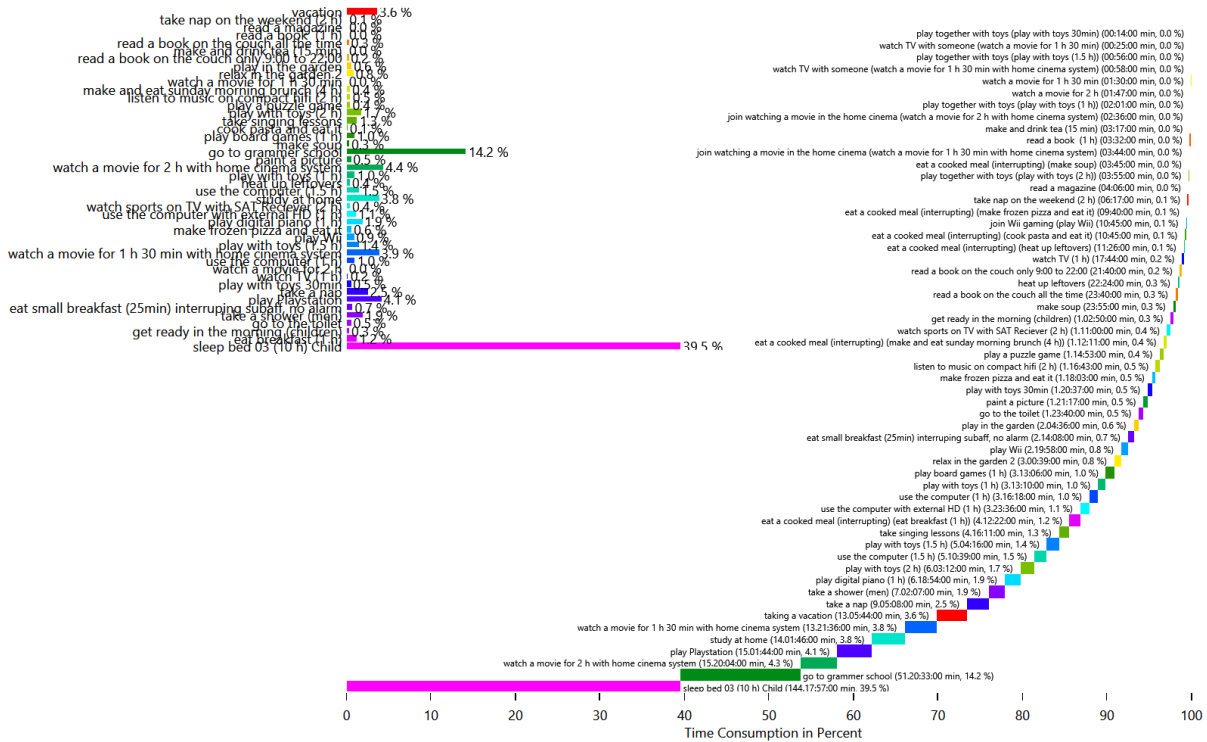
HH0 - CHR05 Liz 2 (35 Female)



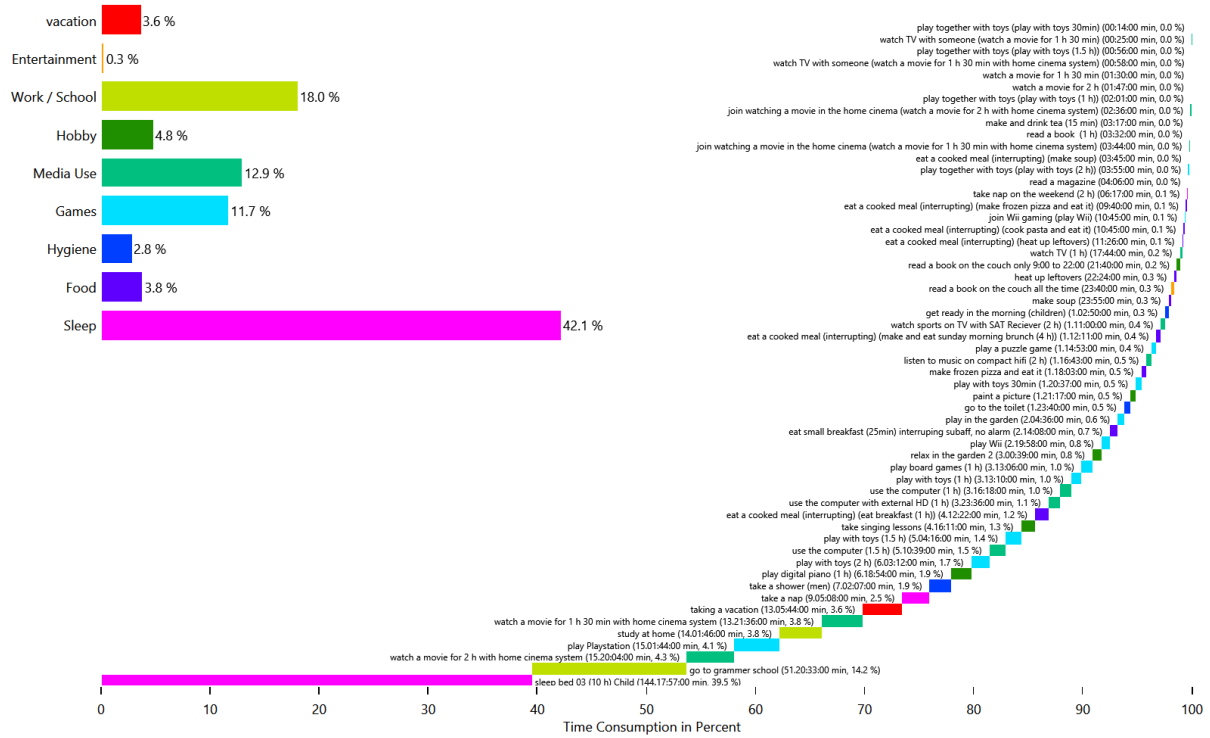
HH0 - CHR05 Mark 2 (13 Male)



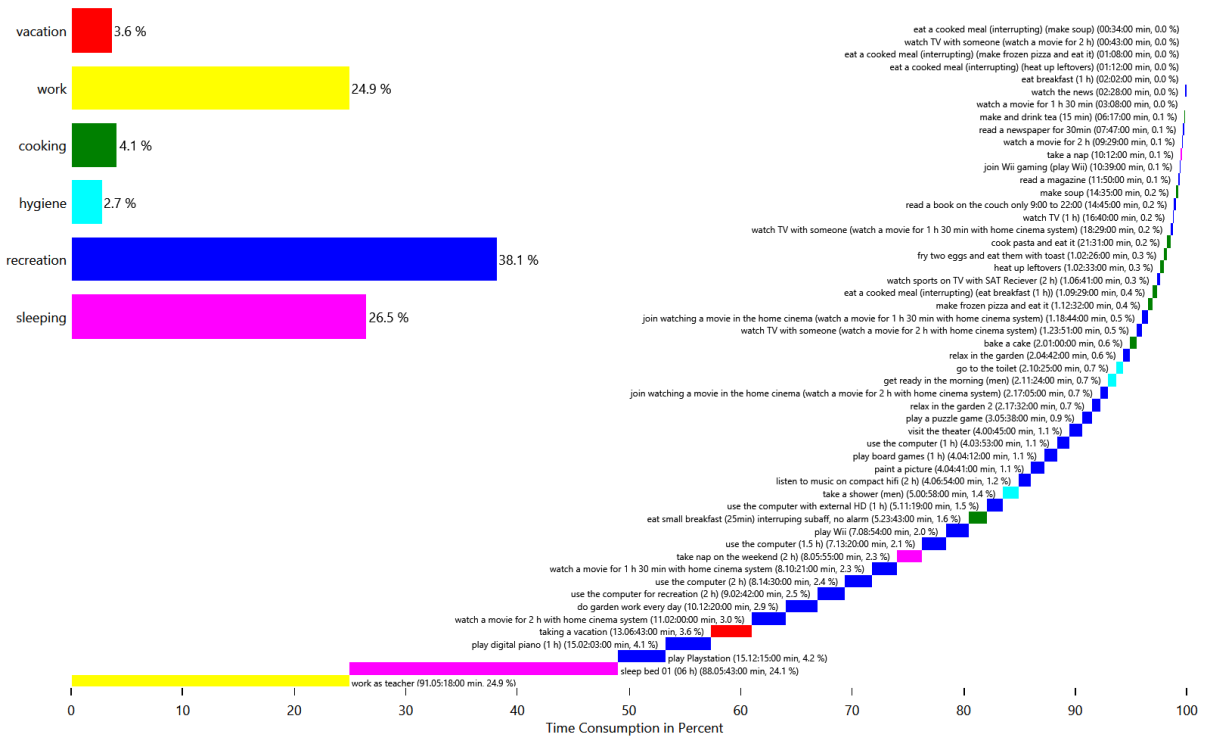
HH0 - CHR05 Mark 2 (13 Male)



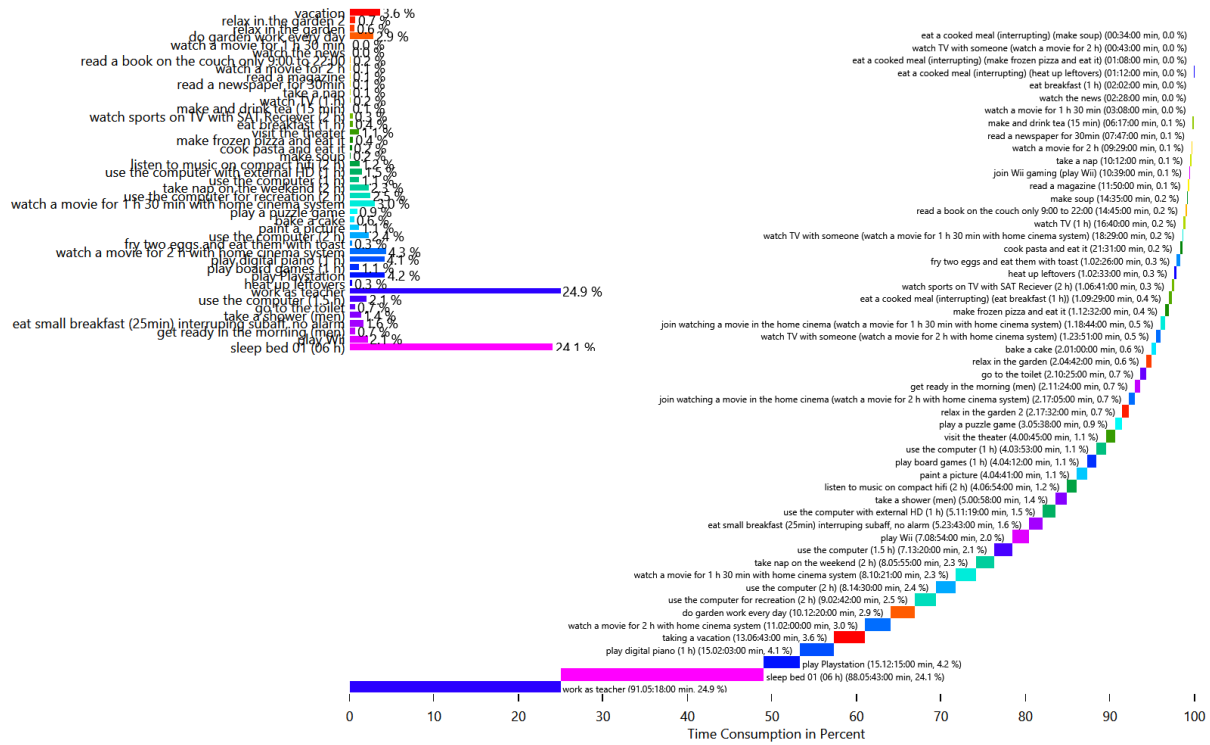
HH0 - CHR05 Mark 2 (13 Male)



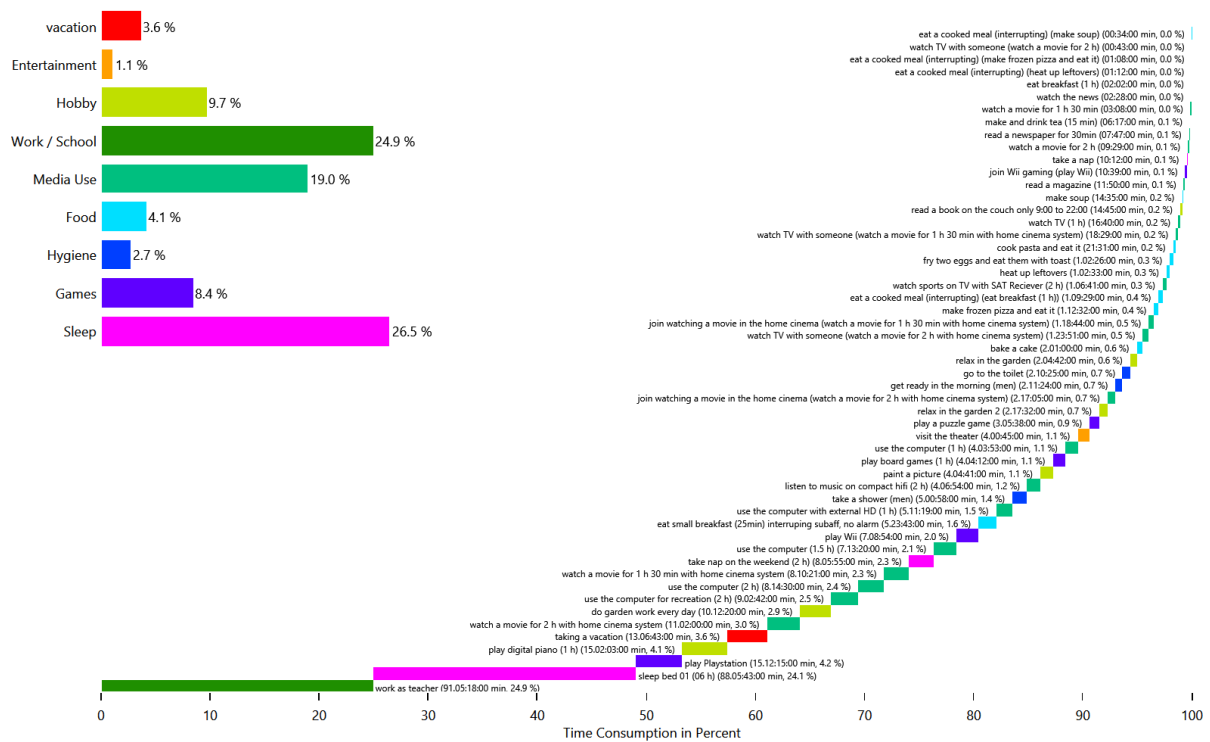
HH0 - CHR05 Nate 2 (40 Male)



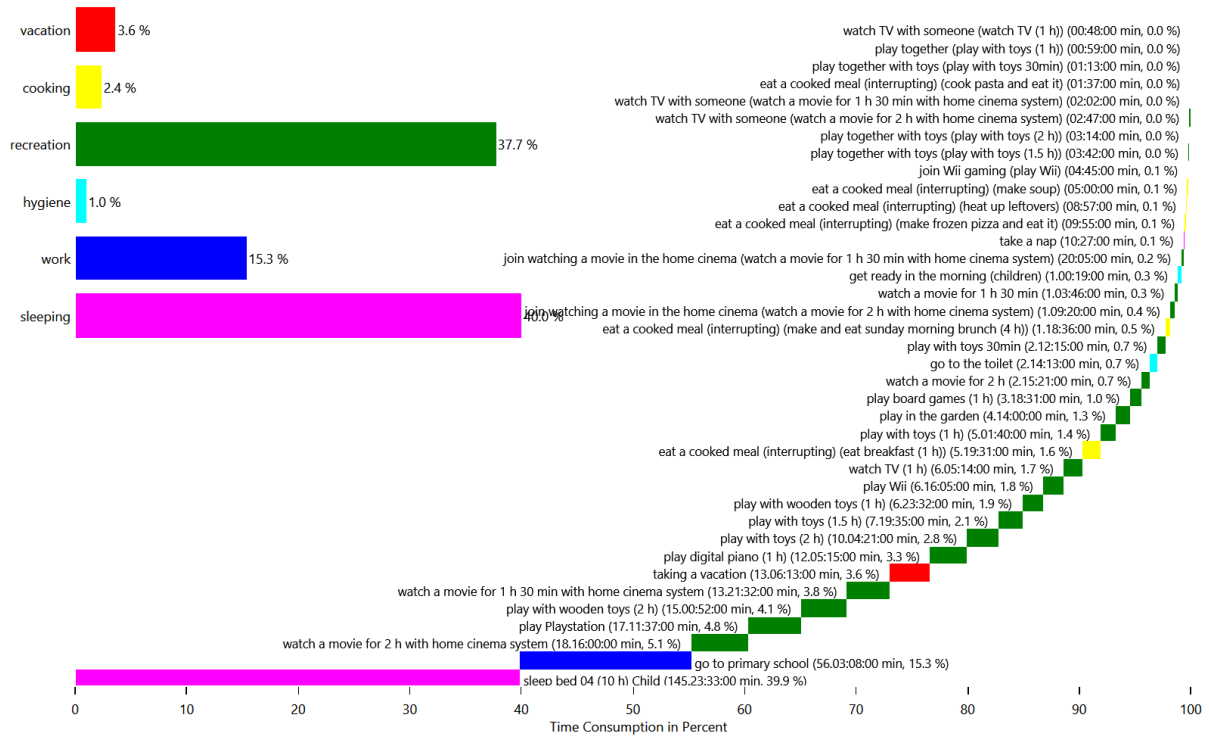
HH0 - CHR05 Nate 2 (40 Male)



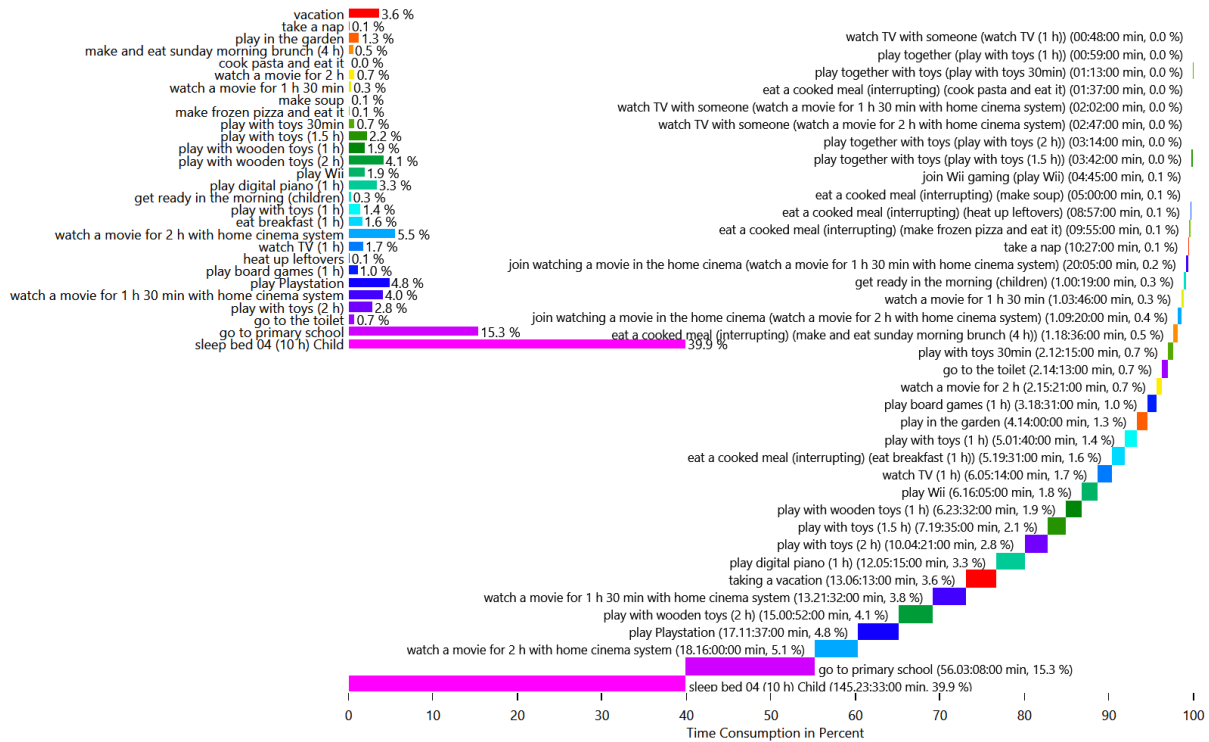
HH0 - CHR05 Nate 2 (40 Male)



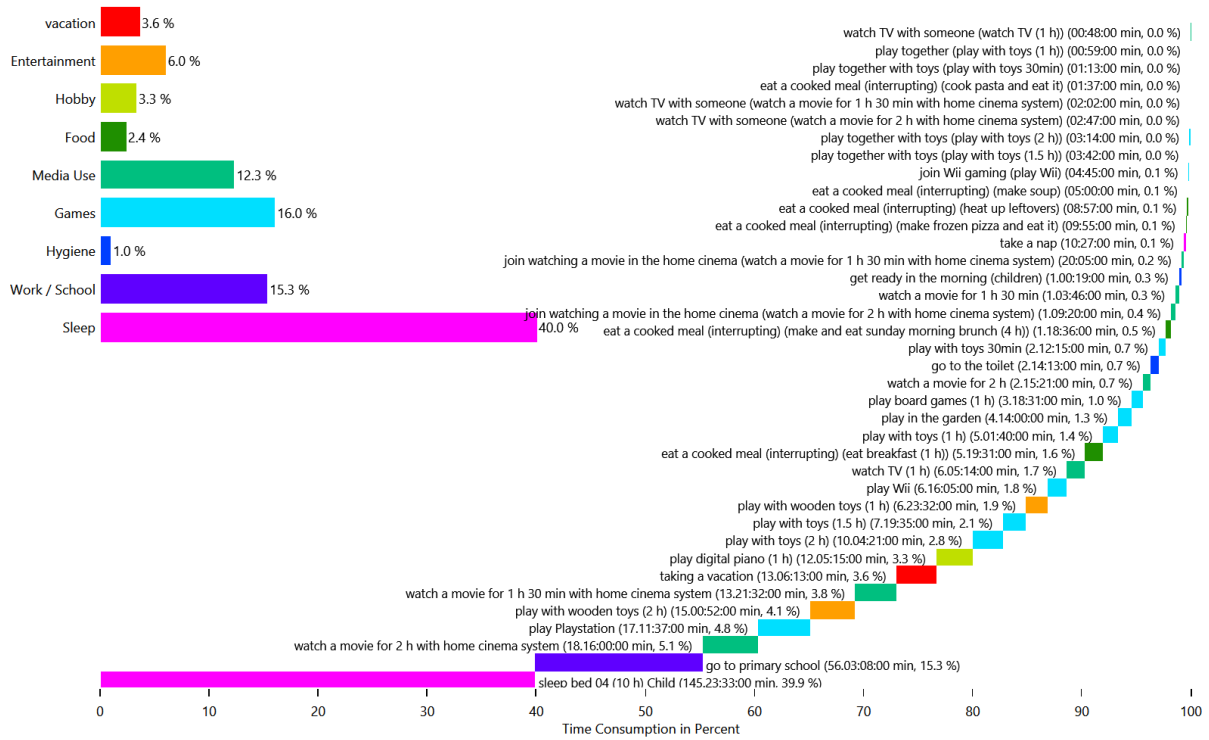
HH0 - CHR05 Will 2 (6 Male)



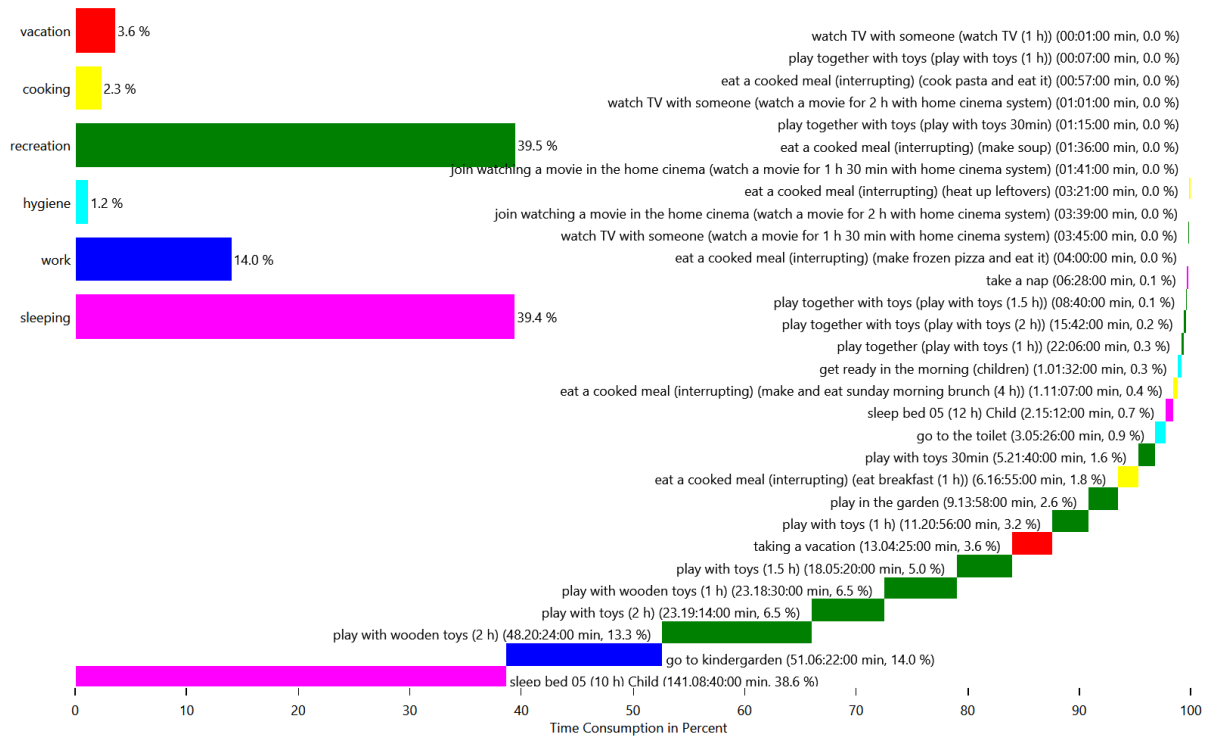
HH0 - CHR05 Will 2 (6 Male)



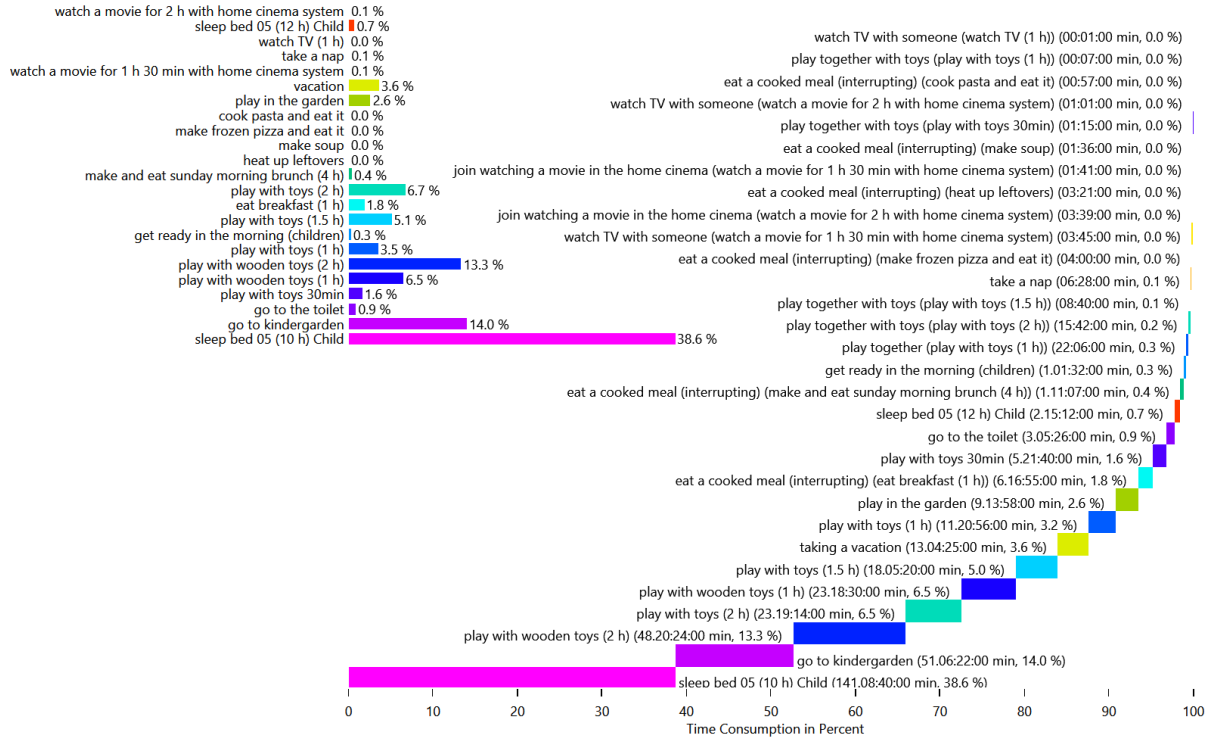
HH0 - CHR05 Will 2 (6 Male)



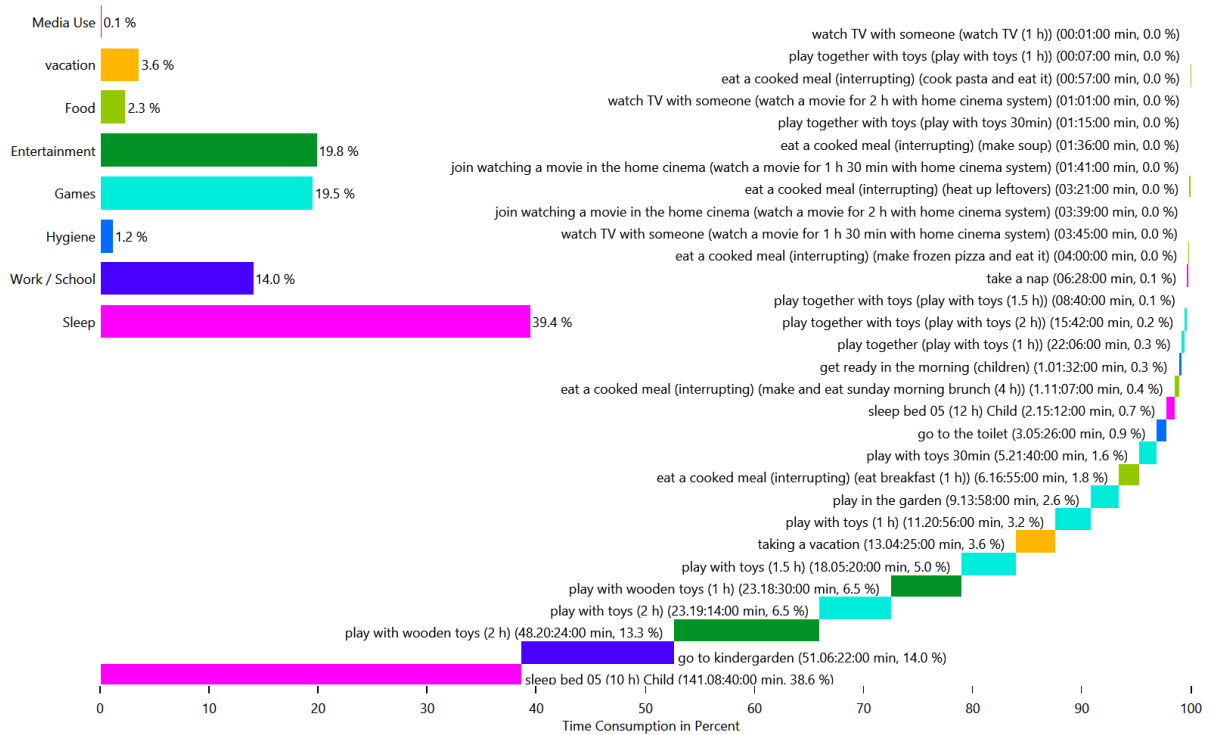
HH0 - CHR05 Zoe 2 (4 Female)



HH0 - CHR05 Zoe 2 (4 Female)



HH0 - CHR05 Zoe 2 (4 Female)

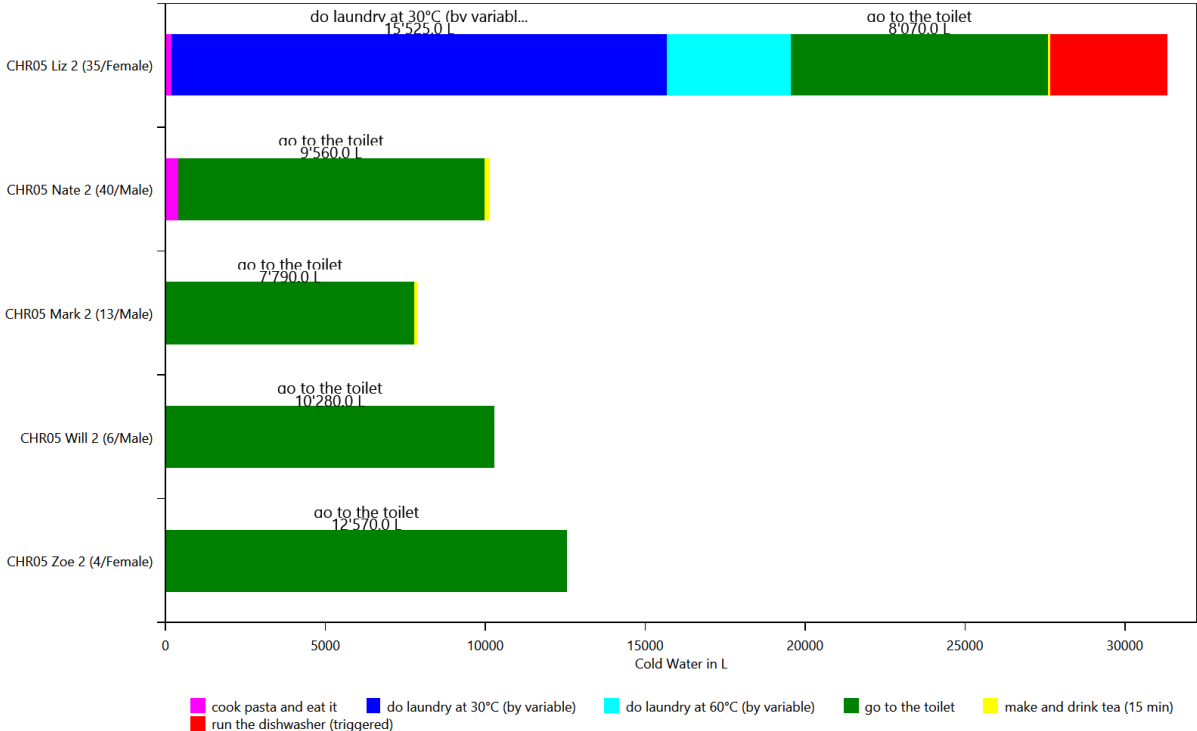


Energy use per person per affordance

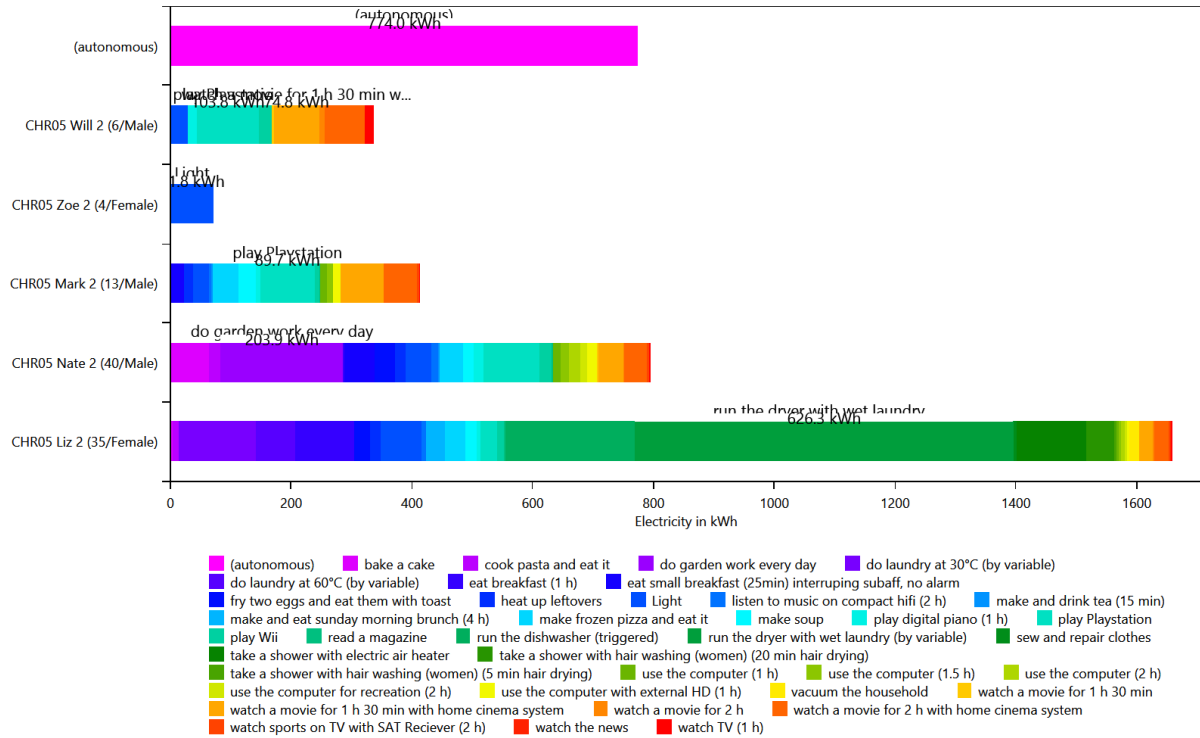
This is made from the files starting with: AffordanceEnergyUsePerPerson

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.

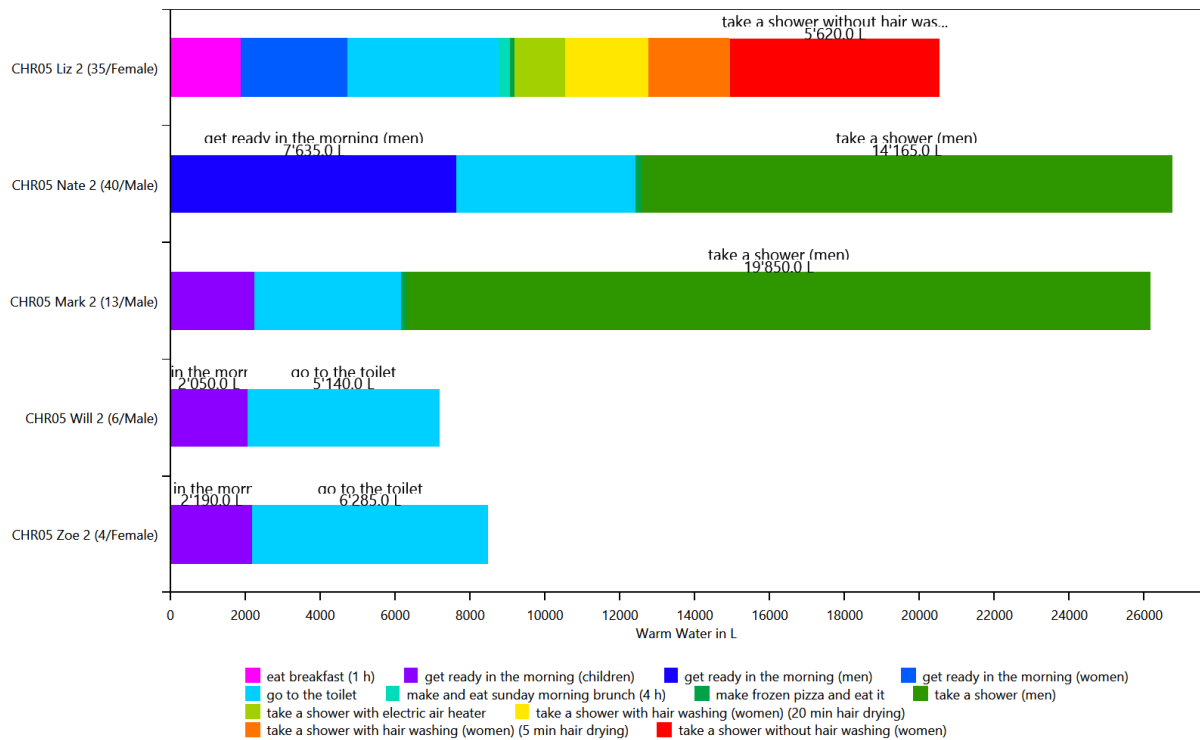
HH0 - Cold Water



HH0 - Electricity



HH0 - Warm Water

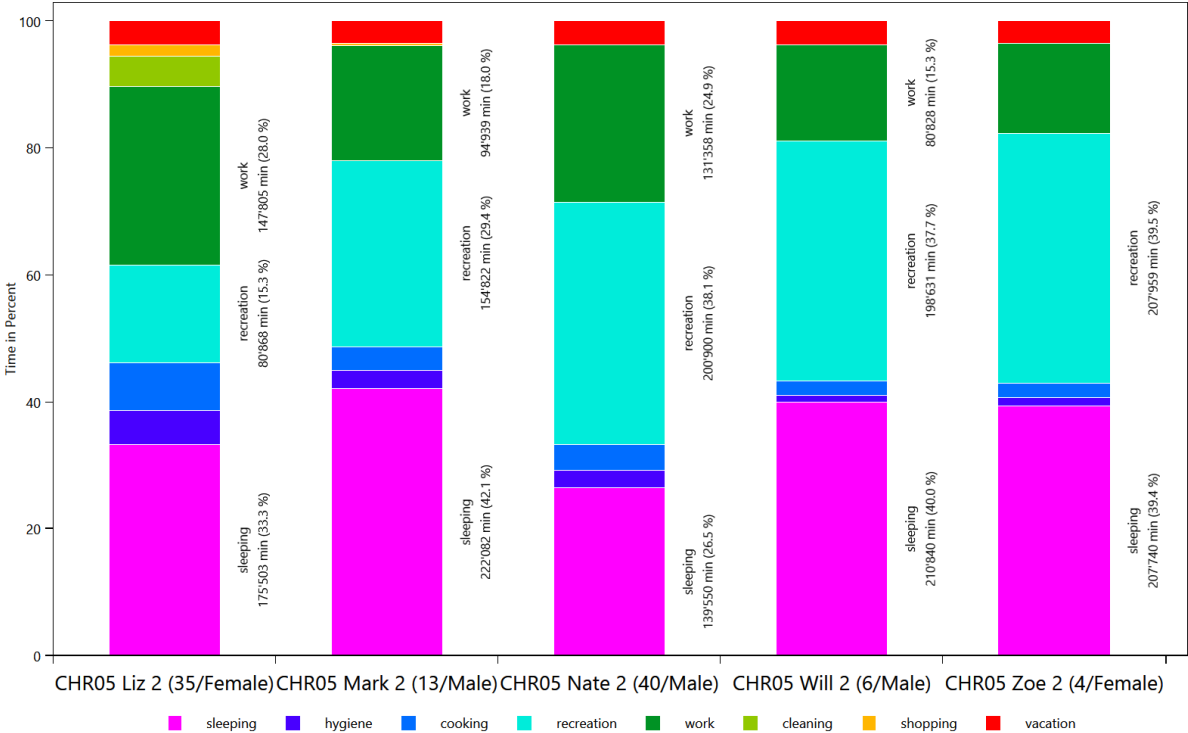


Time Use per Person Per Affordance according to different category definitions

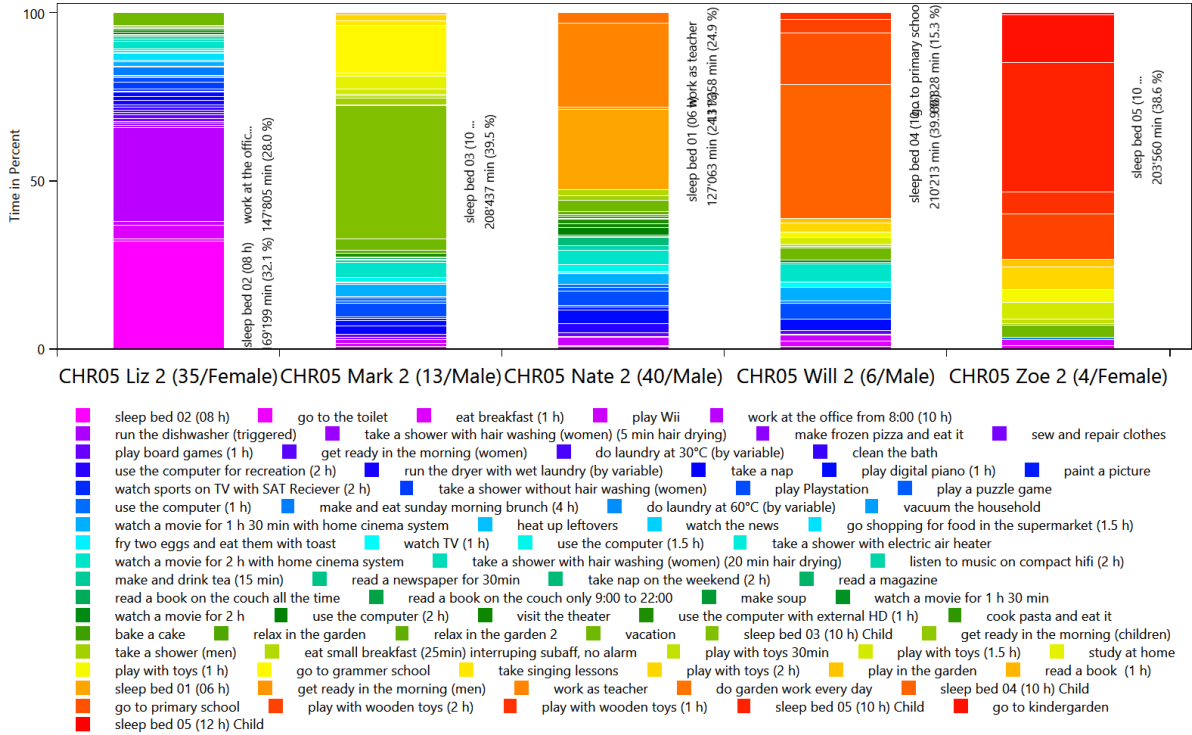
This is made from the files starting with: AffordanceTaggingSet

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.

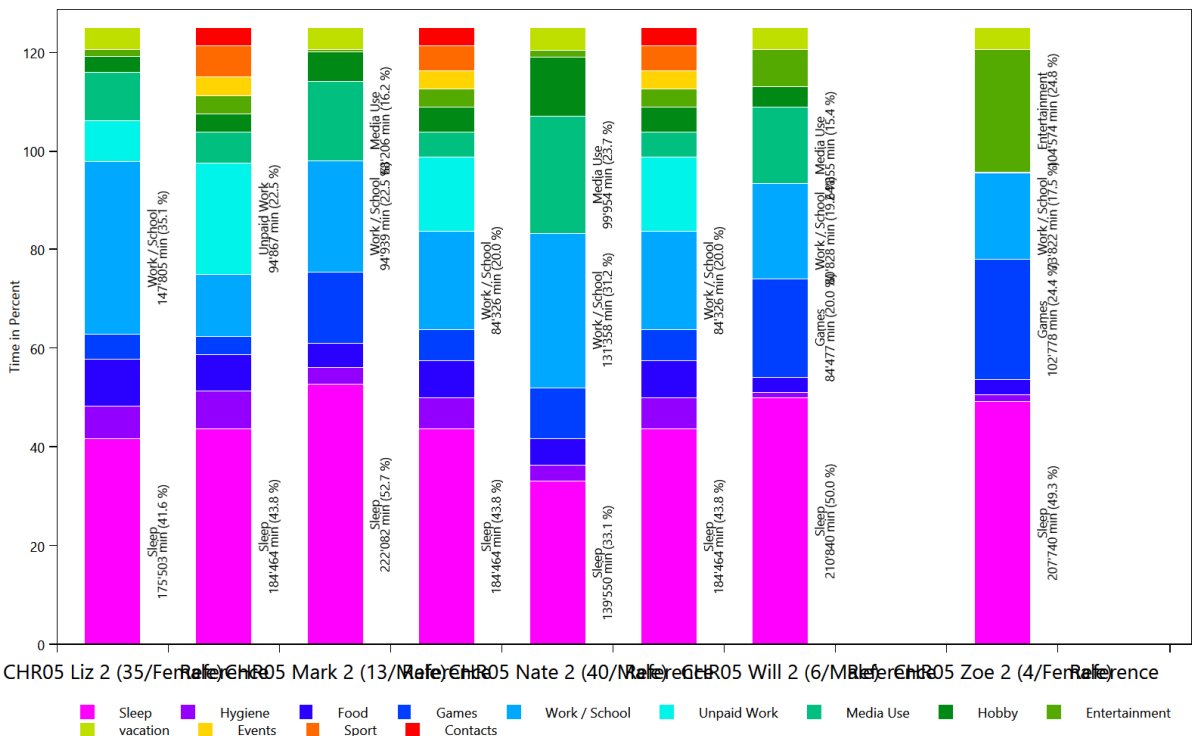
Basic Tagging - HH0



Tagging Set For Planning - HH0



Wo bleibt die Zeit - HH0

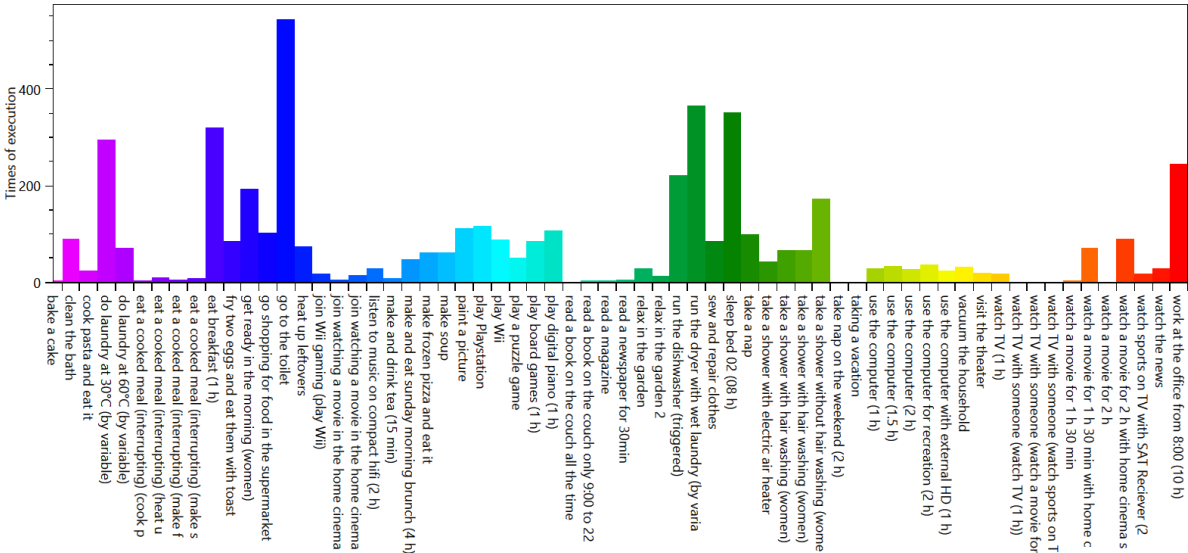


Overview of the actions of each member of the household

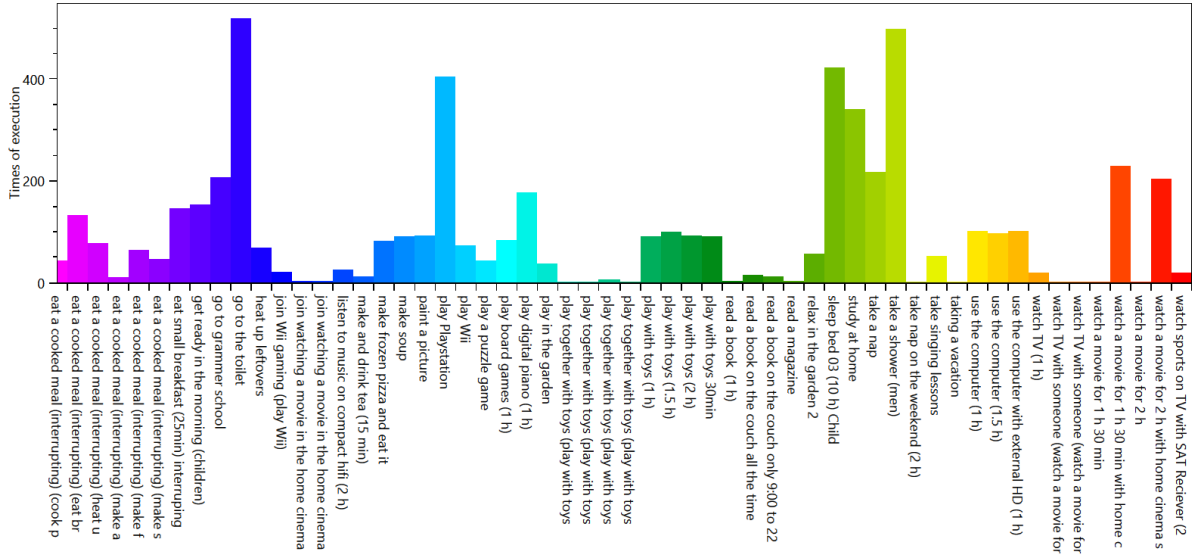
This is made from the files starting with: ExecutedActionsOverviewCount

These charts show how often each affordance was executed.

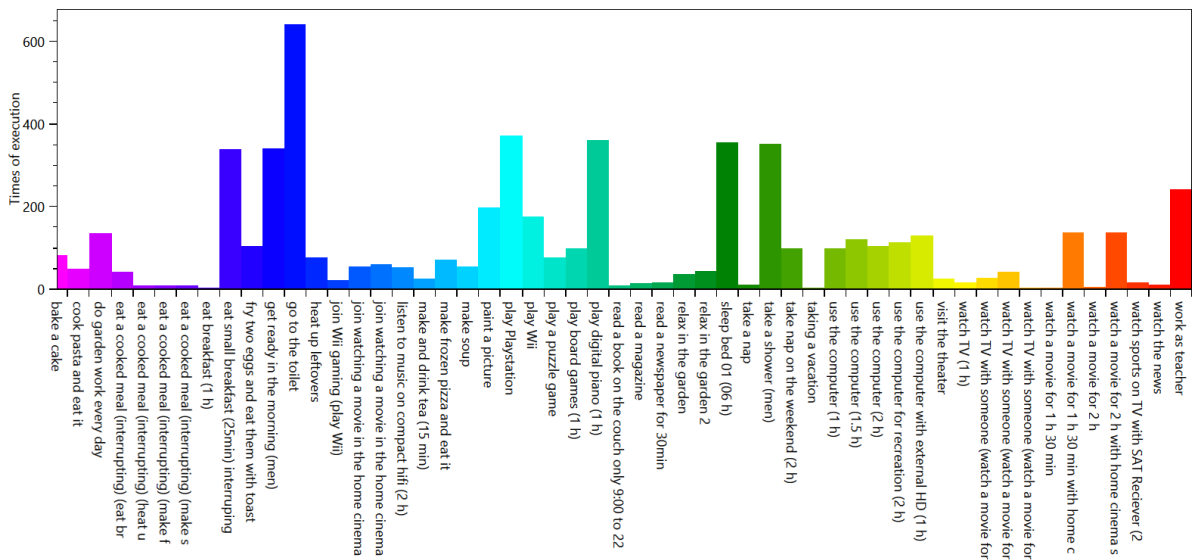
HH0 - CHR05 Liz 2 (35 Female)



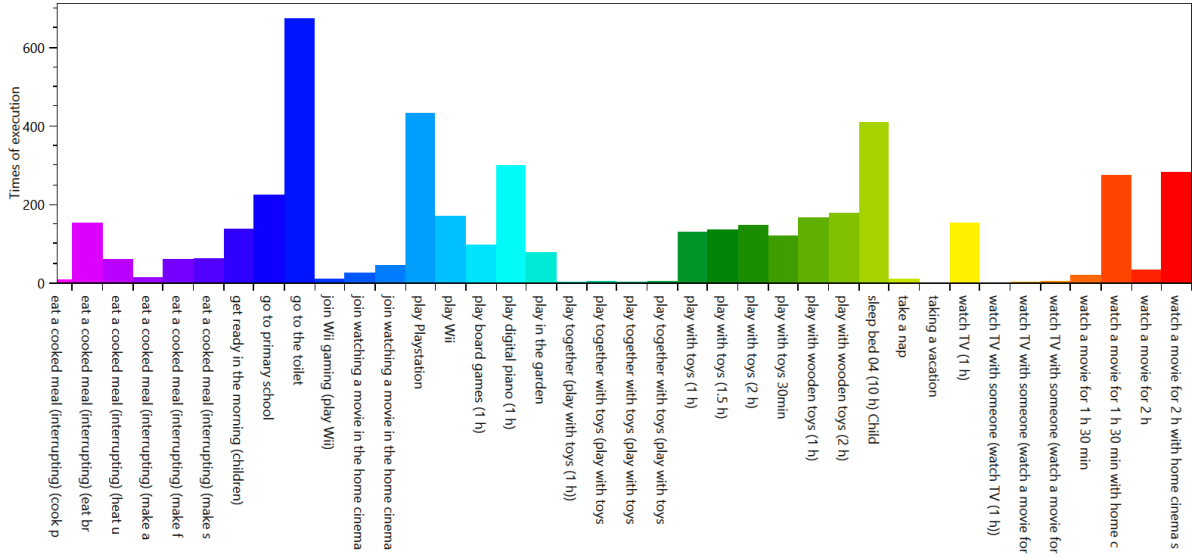
HH0 - CHR05 Mark 2 (13 Male)



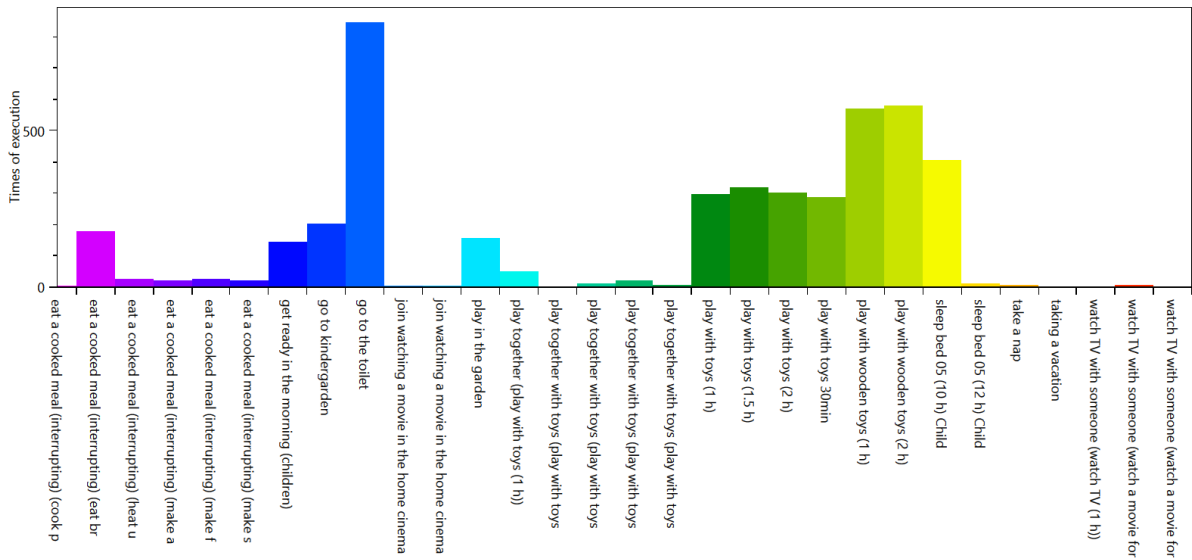
HH0 - CHR05 Nate 2 (40 Male)



HH0 - CHR05 Will 2 (6 Male)



HH0 - CHR05 Zoe 2 (4 Female)

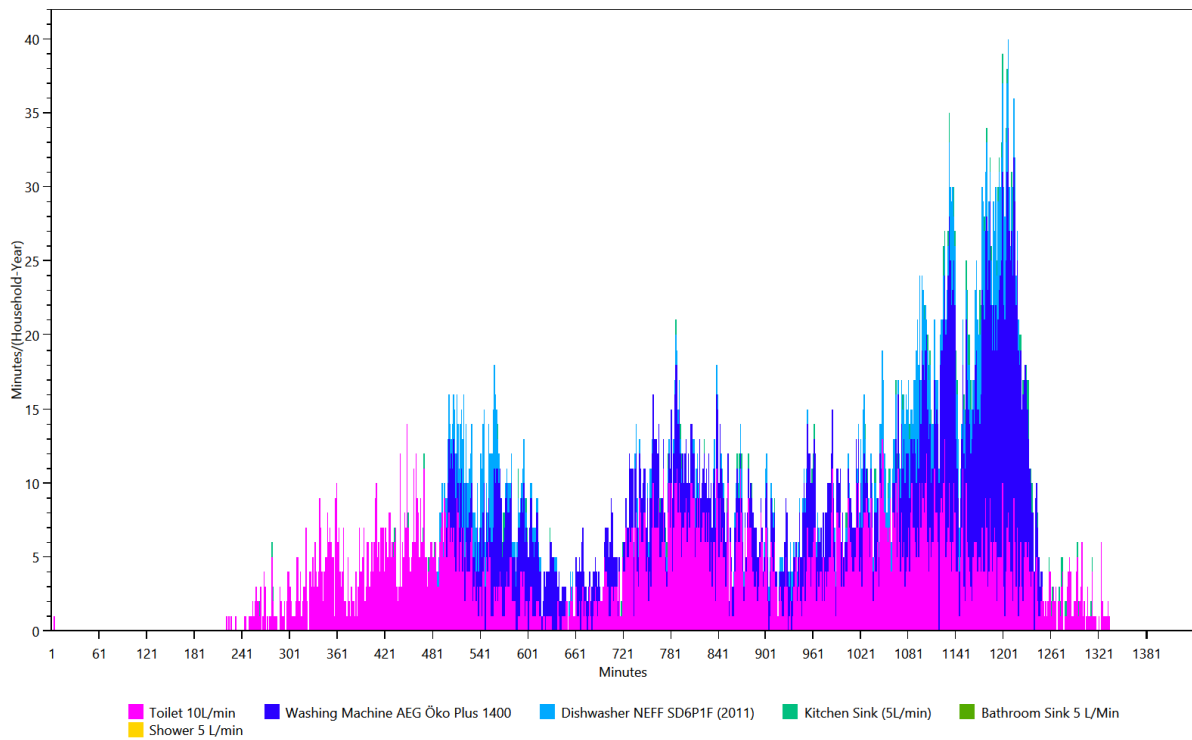


Overview of the time of the use per load type per device

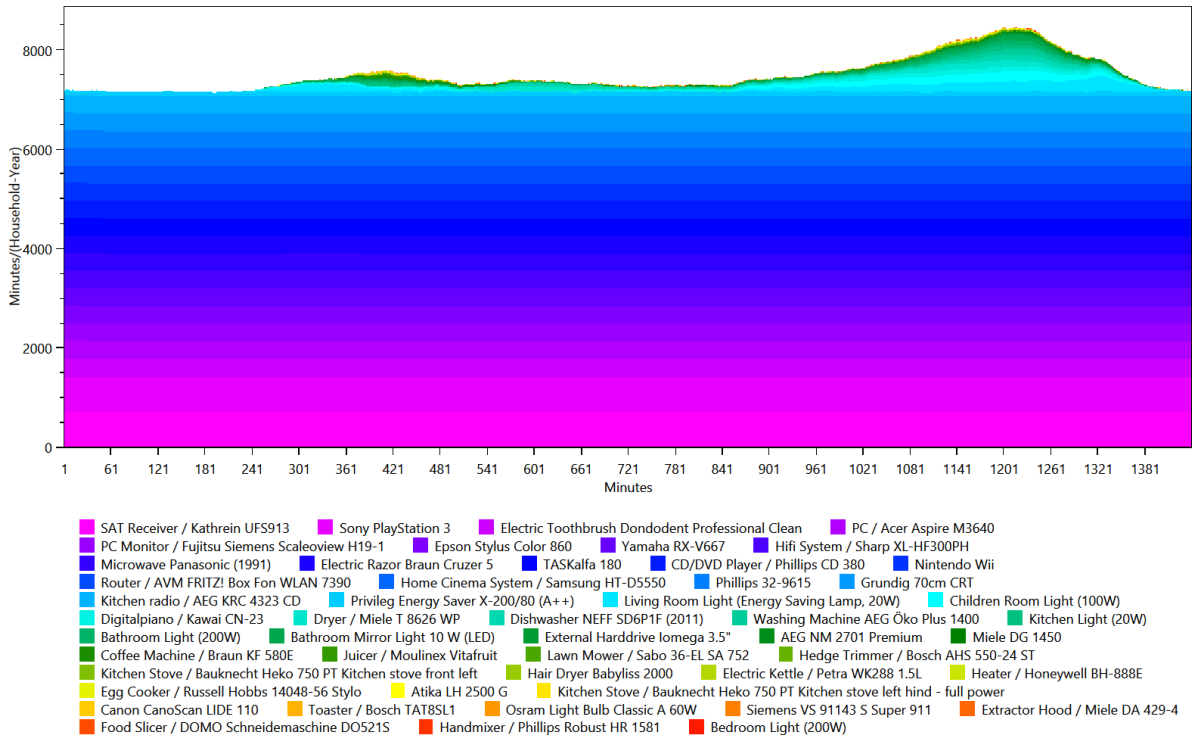
This is made from the files starting with: TimeOfUseEnergyProfiles

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

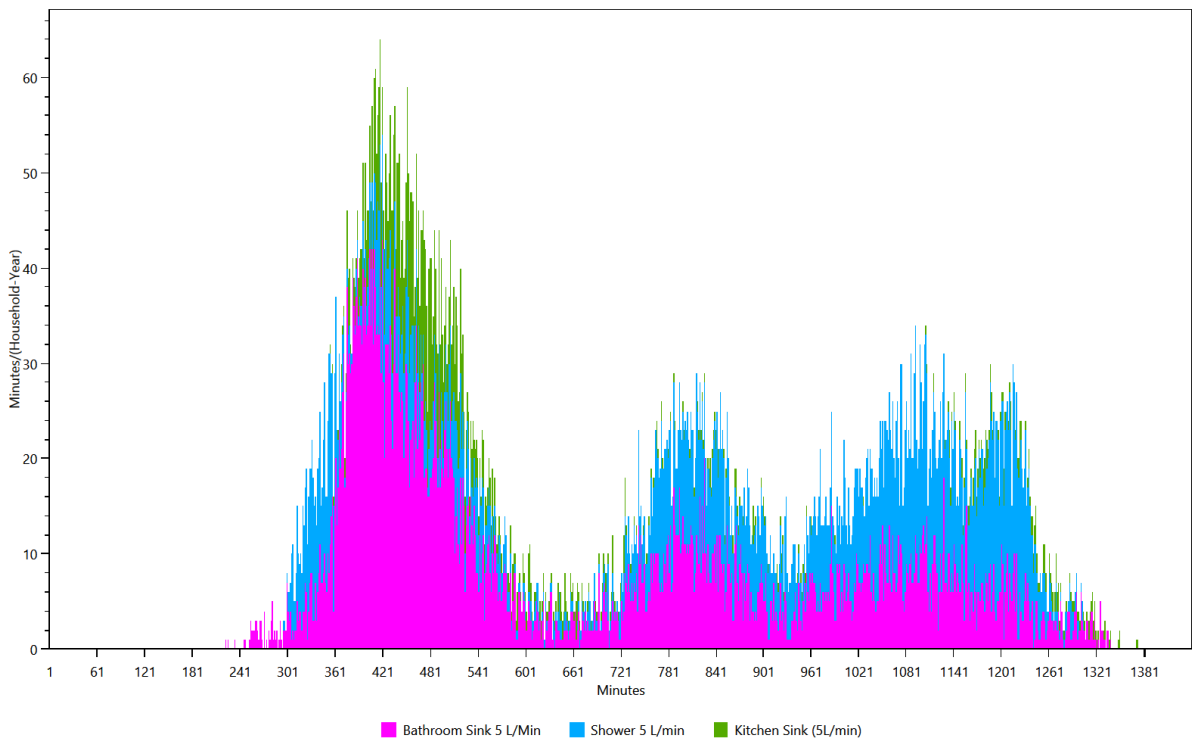
Cold Water



Electricity



Warm Water

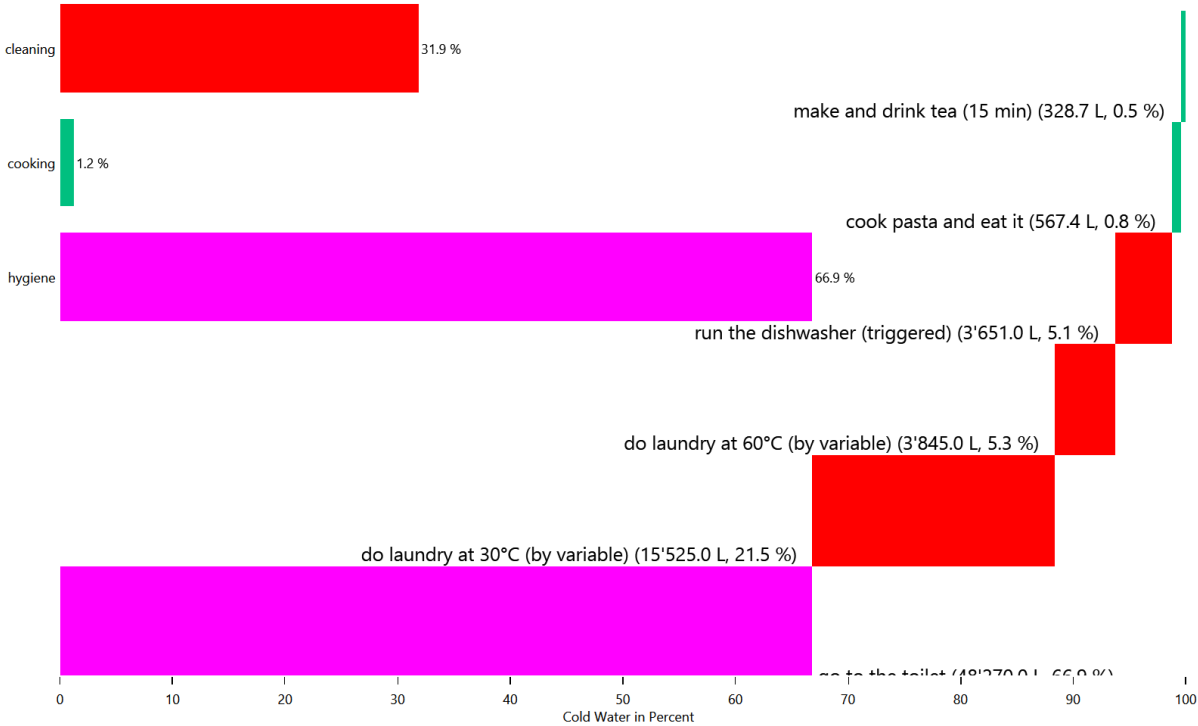


Energy/Resource use distribution per load type per affordance

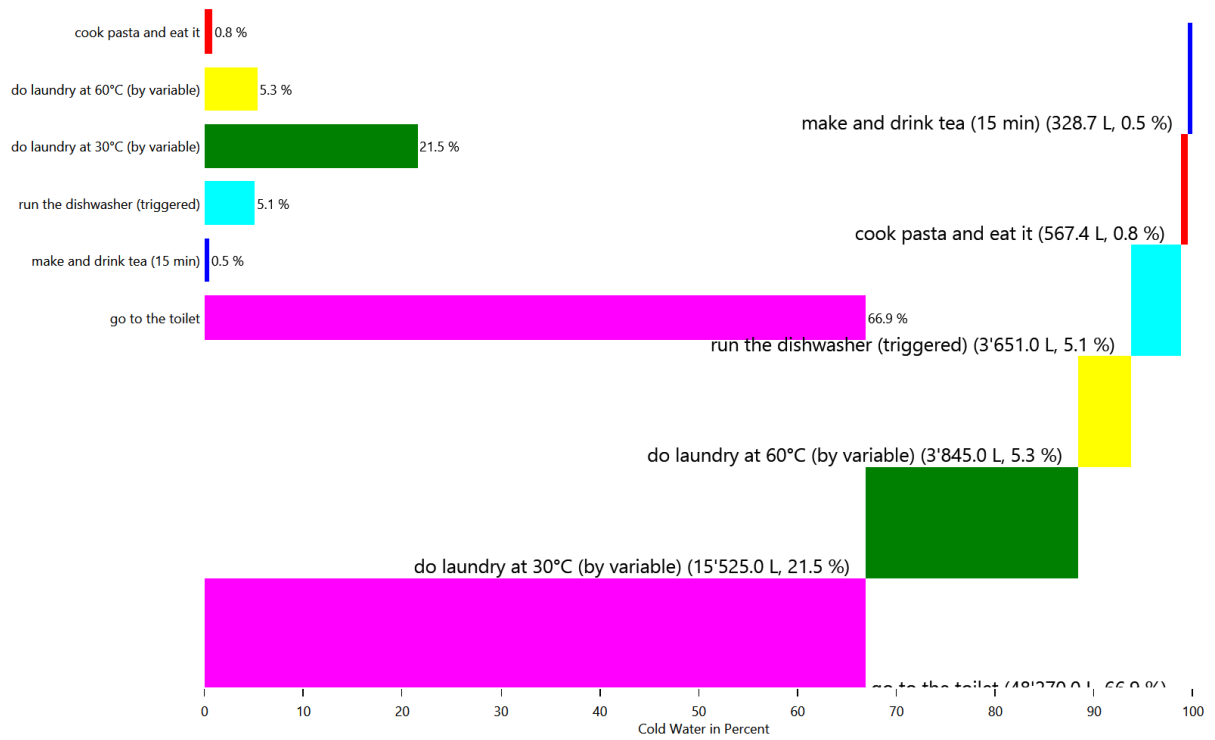
This is made from the files starting with: AffordanceEnergyUse

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

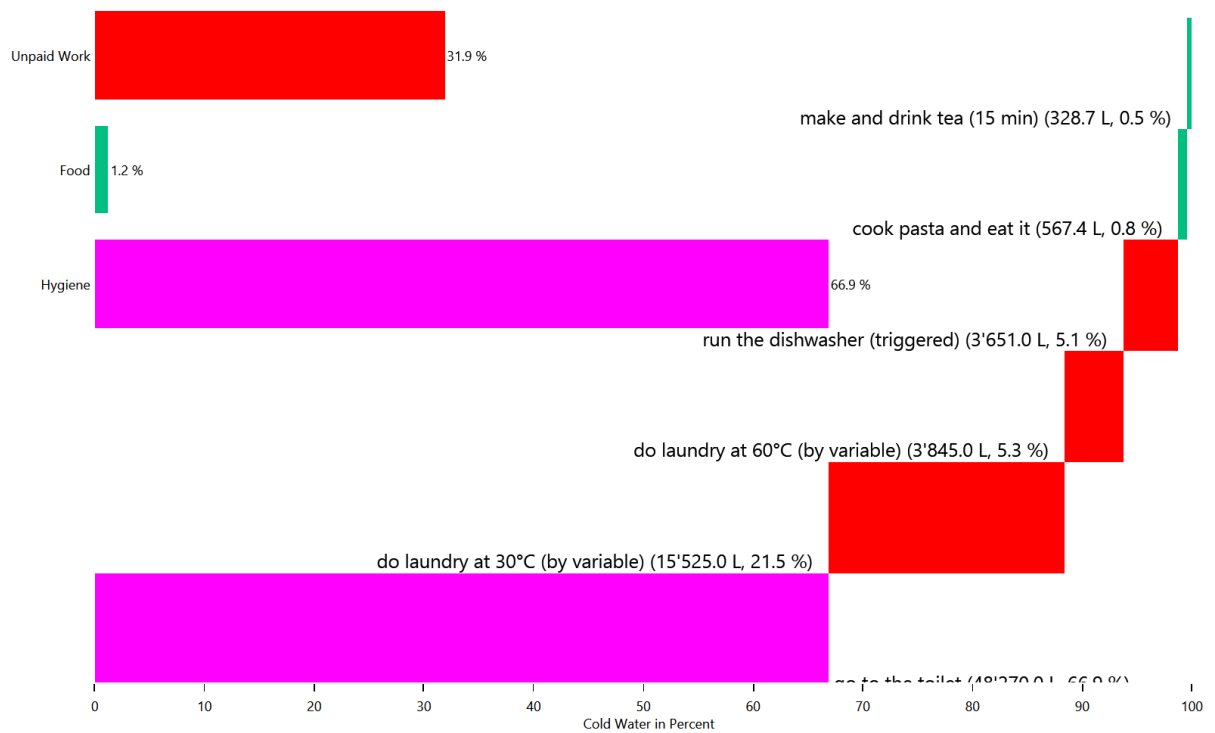
HH0 - Cold Water



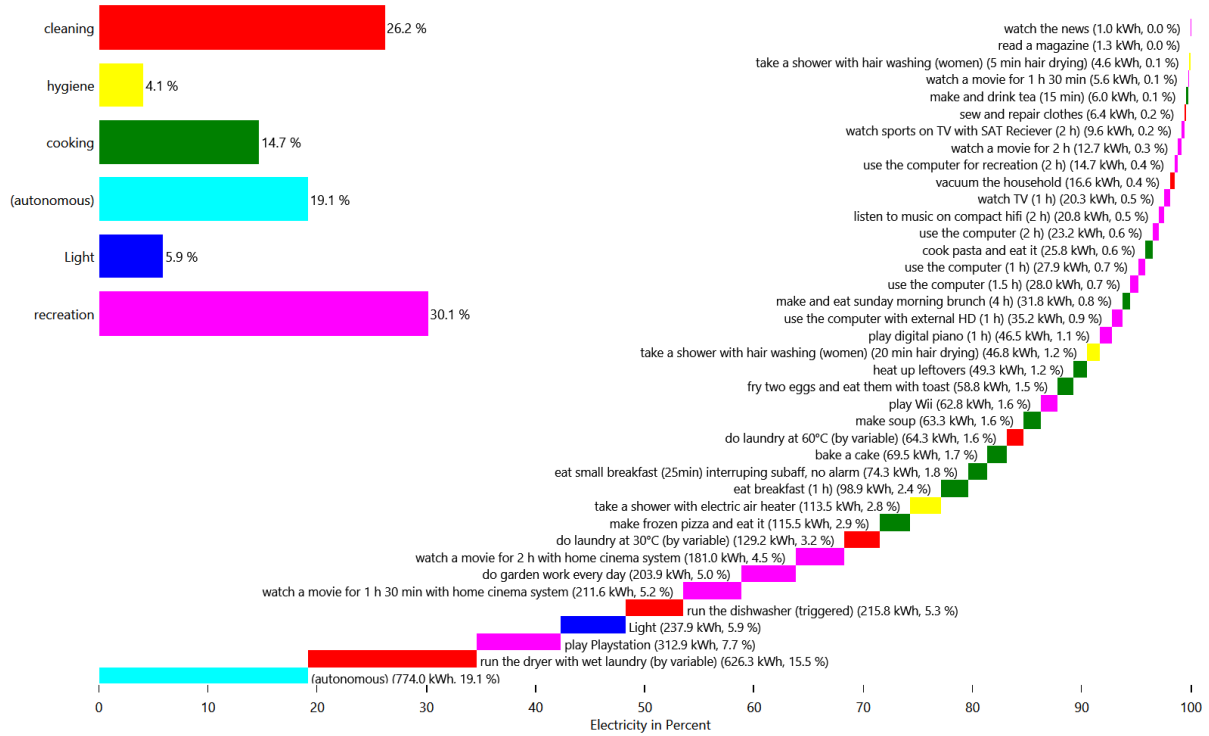
HH0 - Cold Water



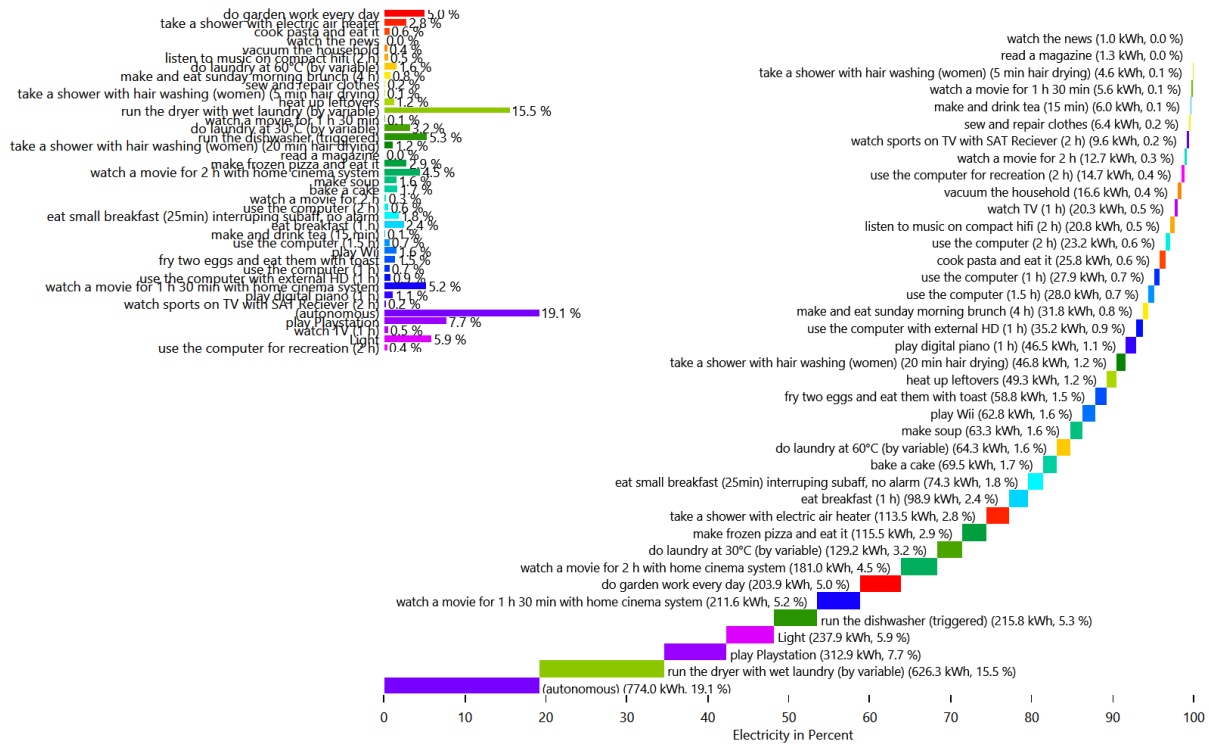
HH0 - Cold Water



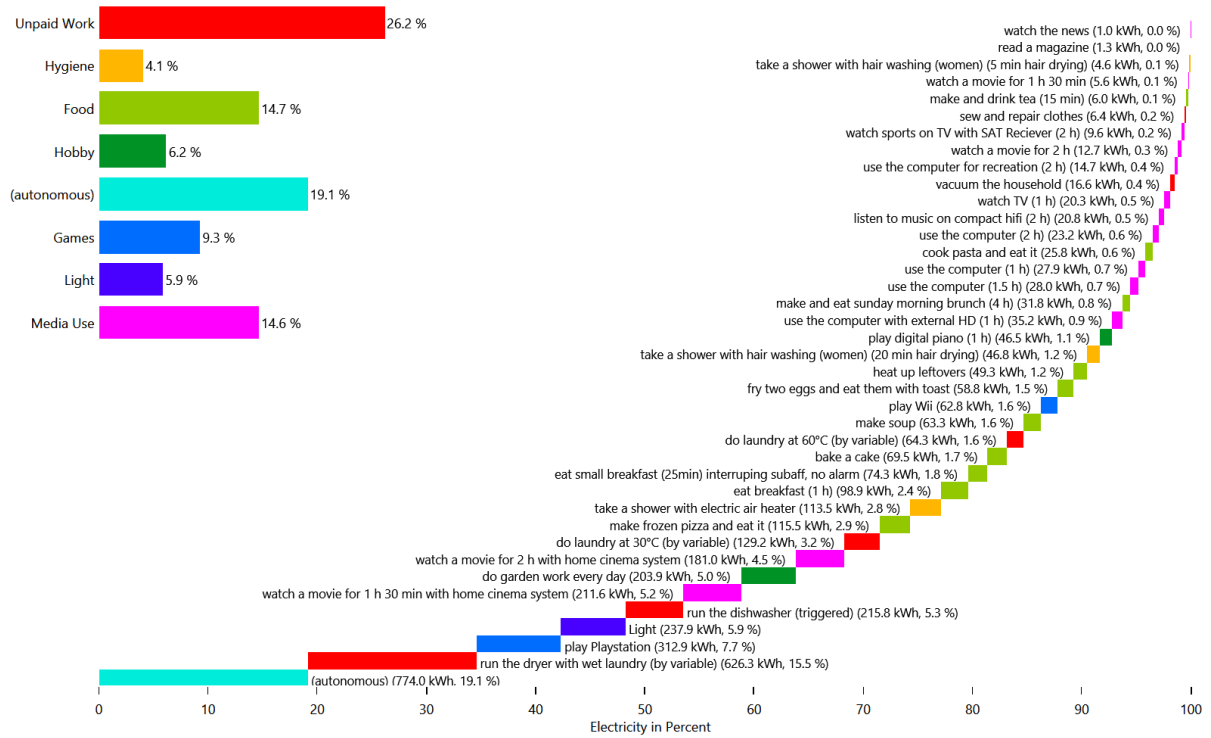
HH0 - Electricity



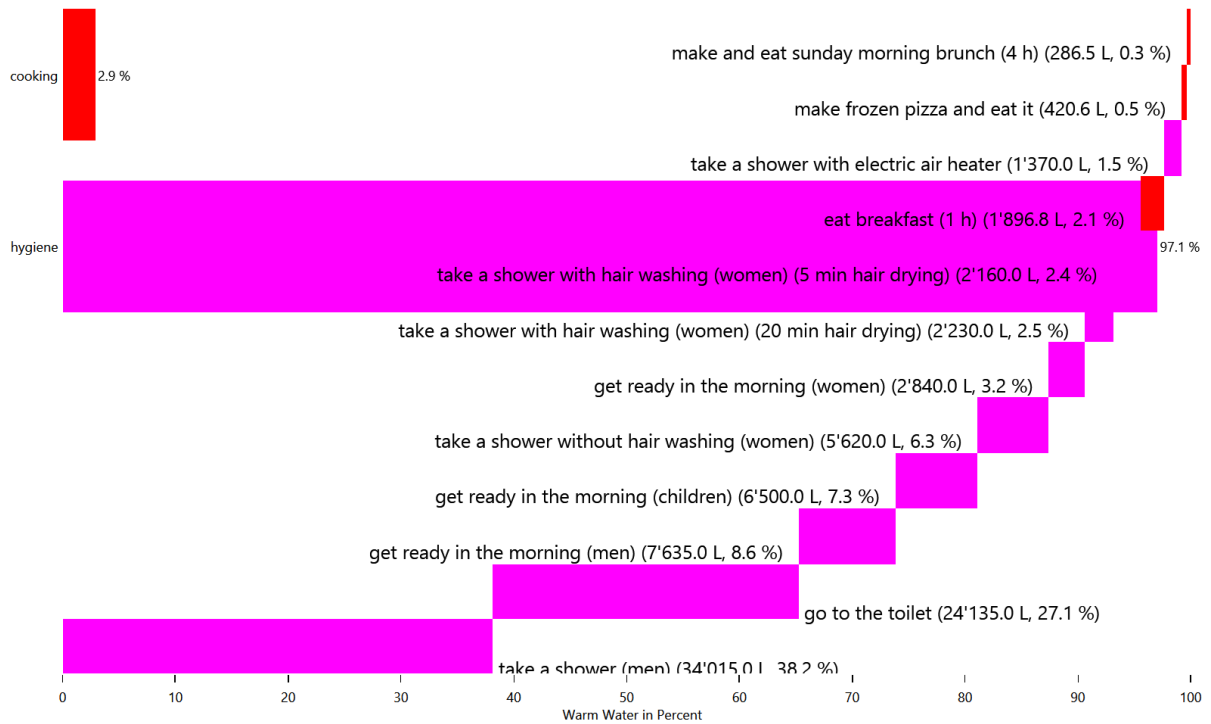
HH0 - Electricity



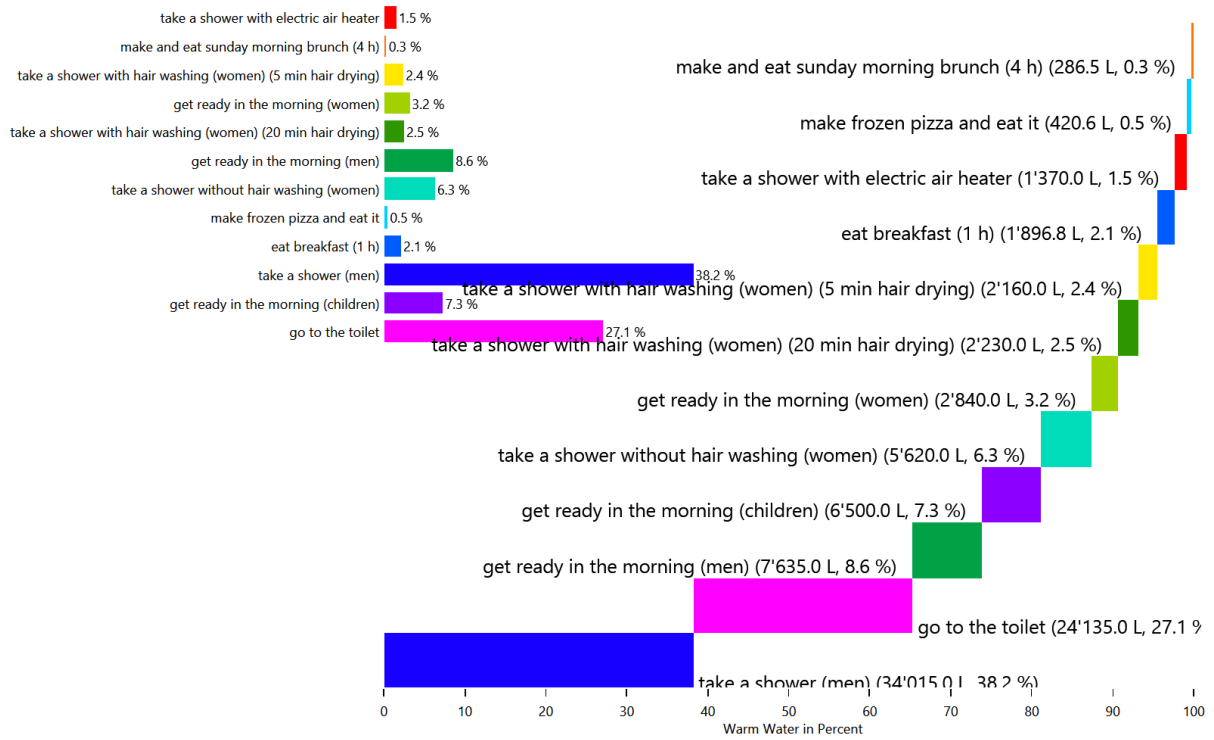
HHO - Electricity



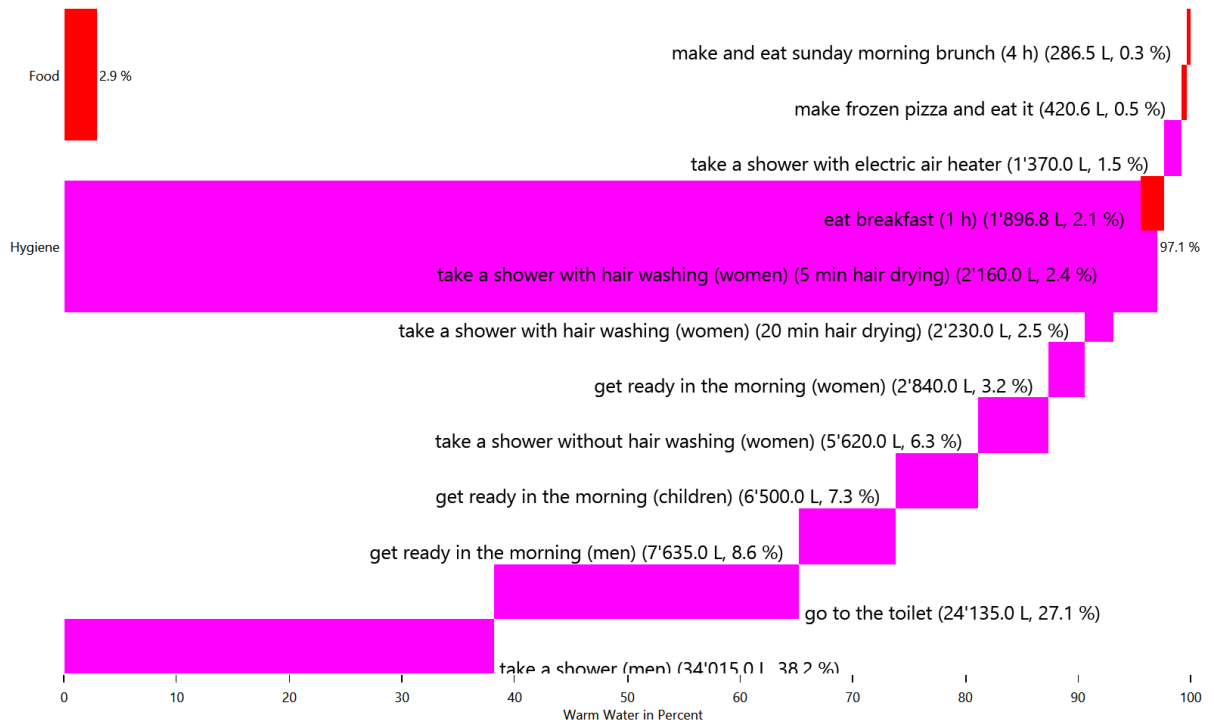
HHO - Warm Water



HH0 - Warm Water



HH0 - Warm Water

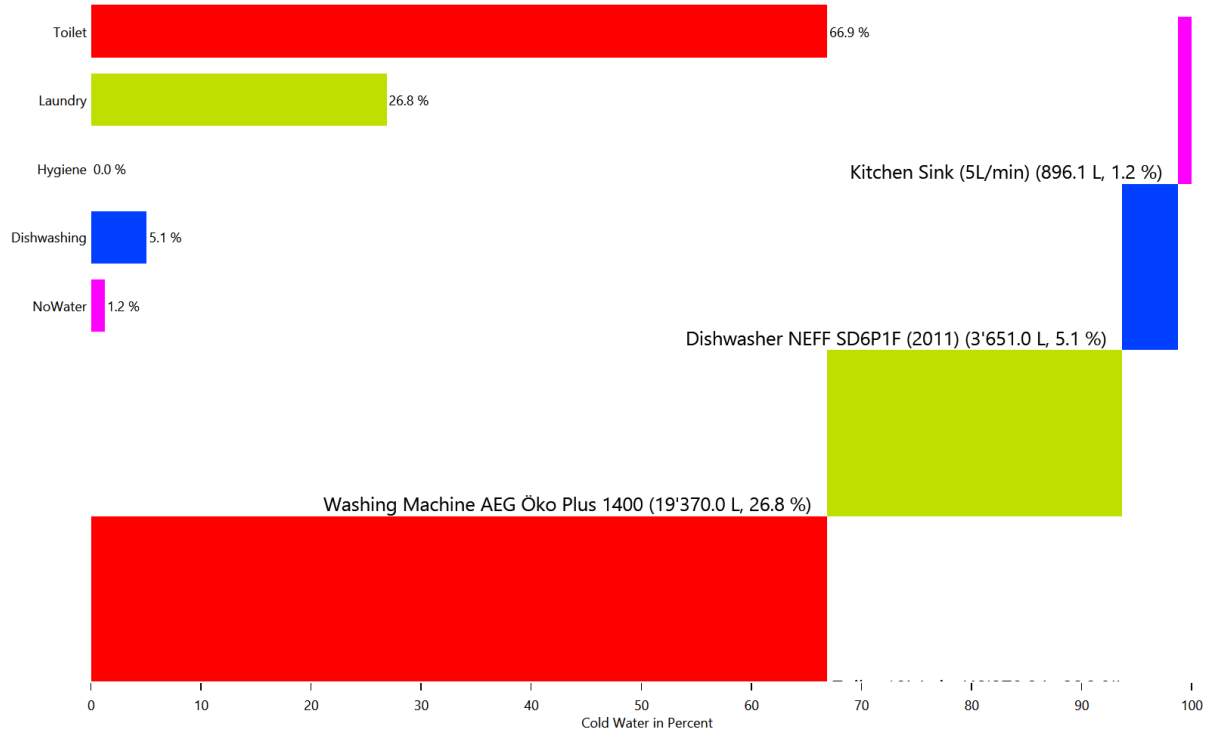


Energy use for each load type for each device

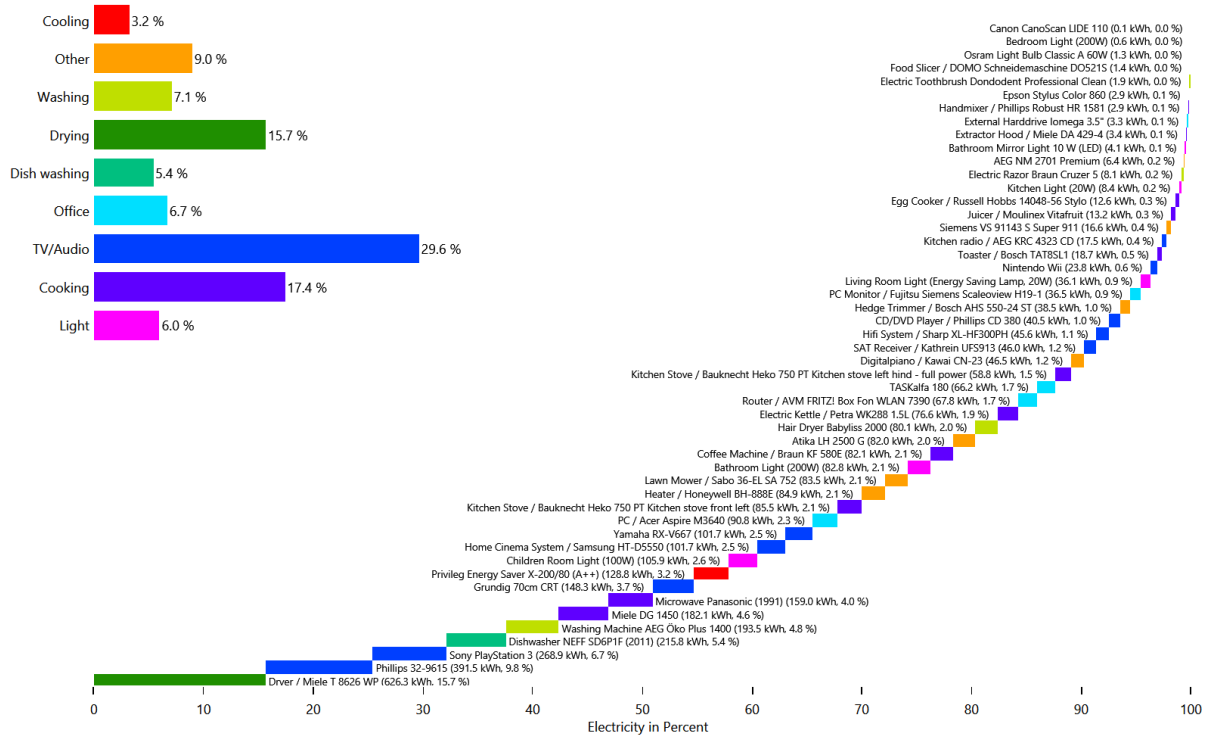
This is made from the files starting with: DeviceSums

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

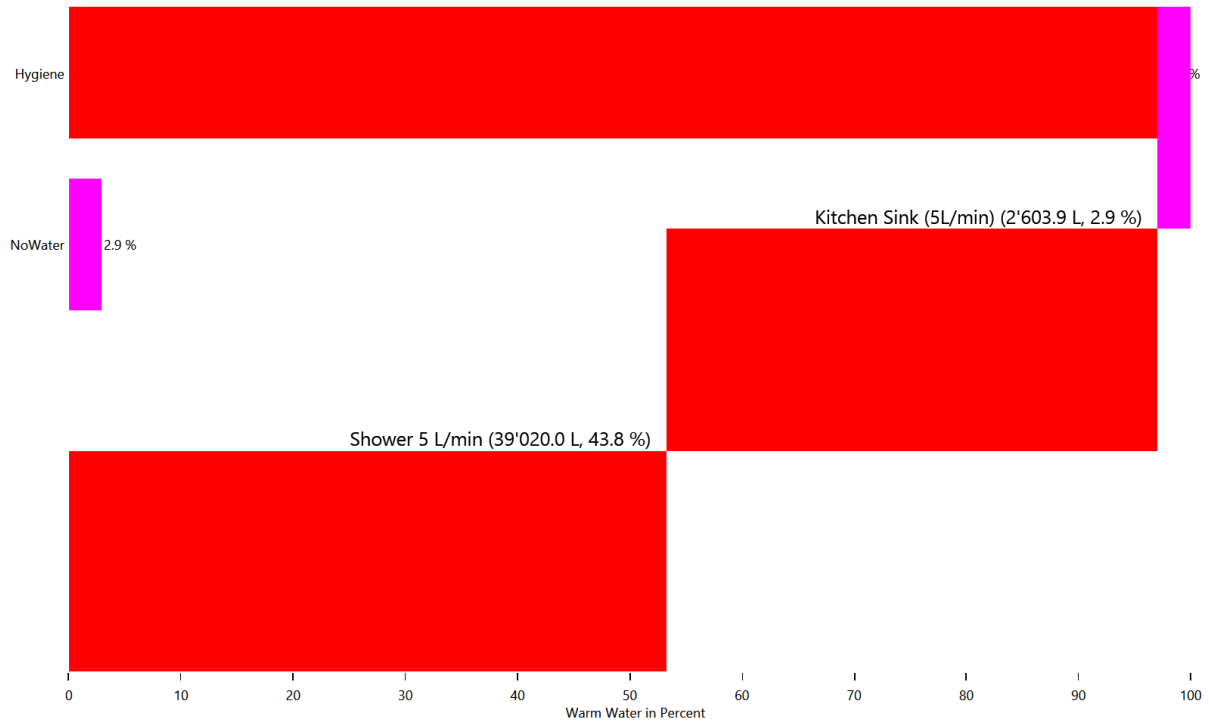
Cold Water



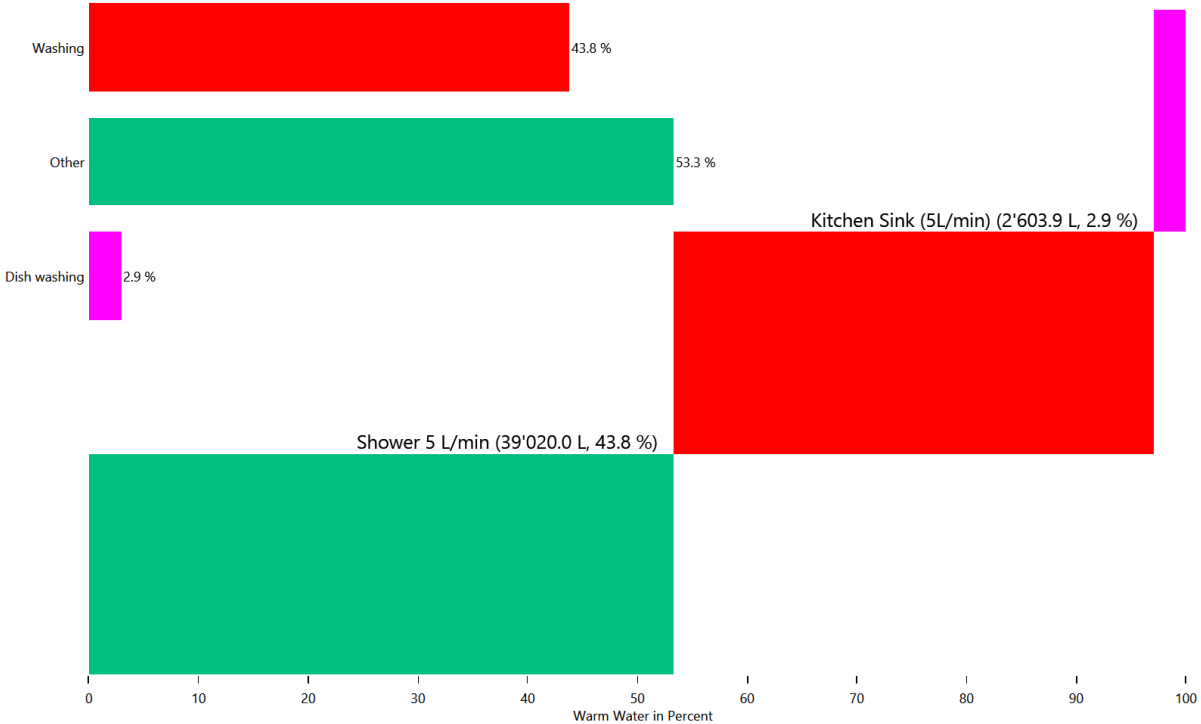
Electricity



Warm Water



Warm Water

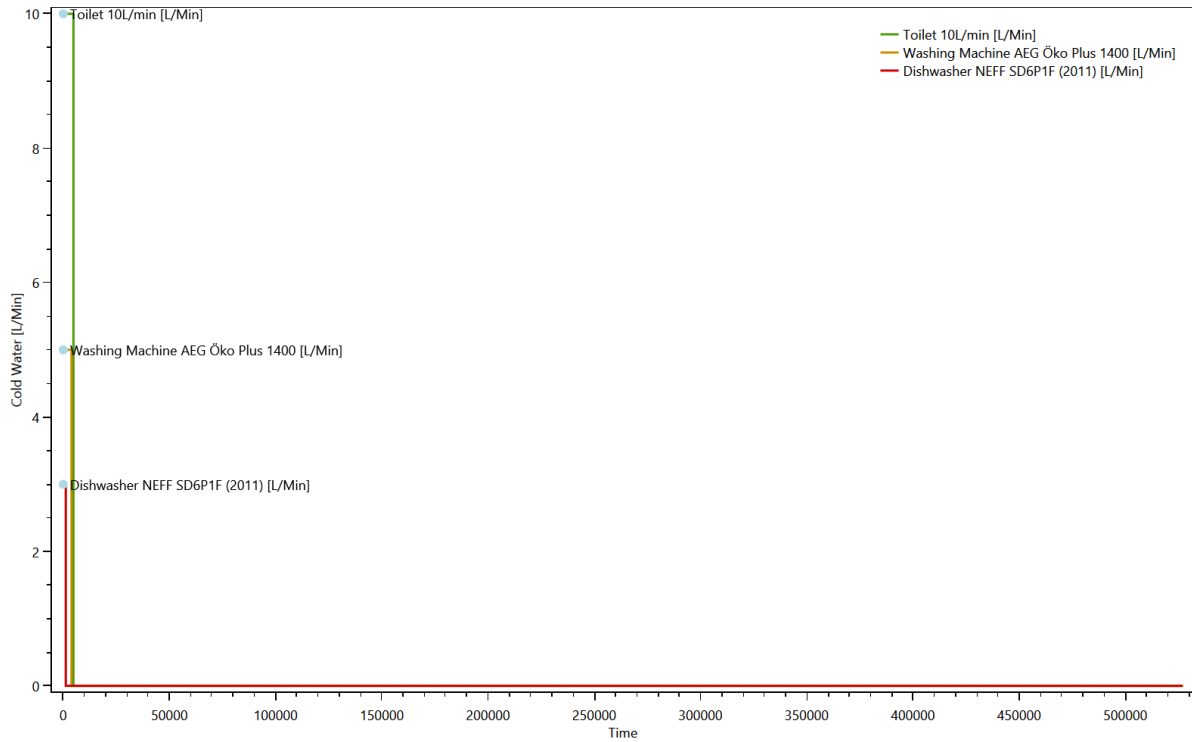


Duration curve for each device for each load type

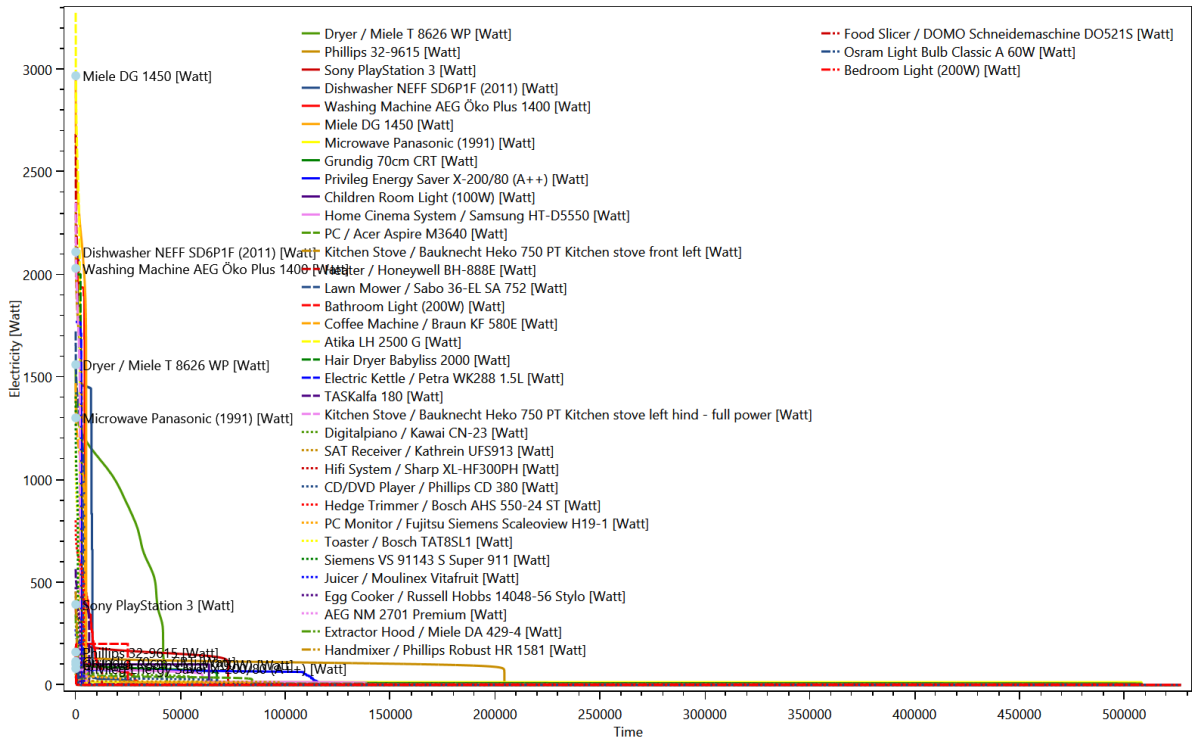
This is made from the files starting with: DeviceDurationCurves

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

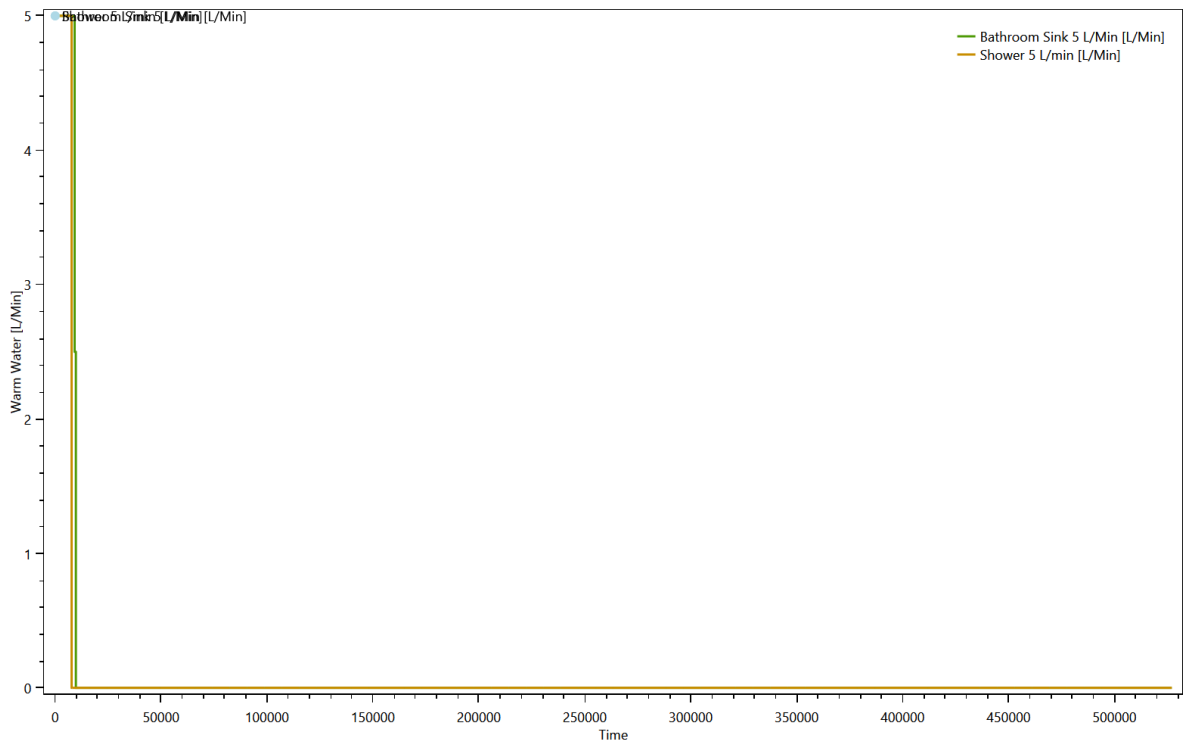
Cold Water



Electricity



Warm Water

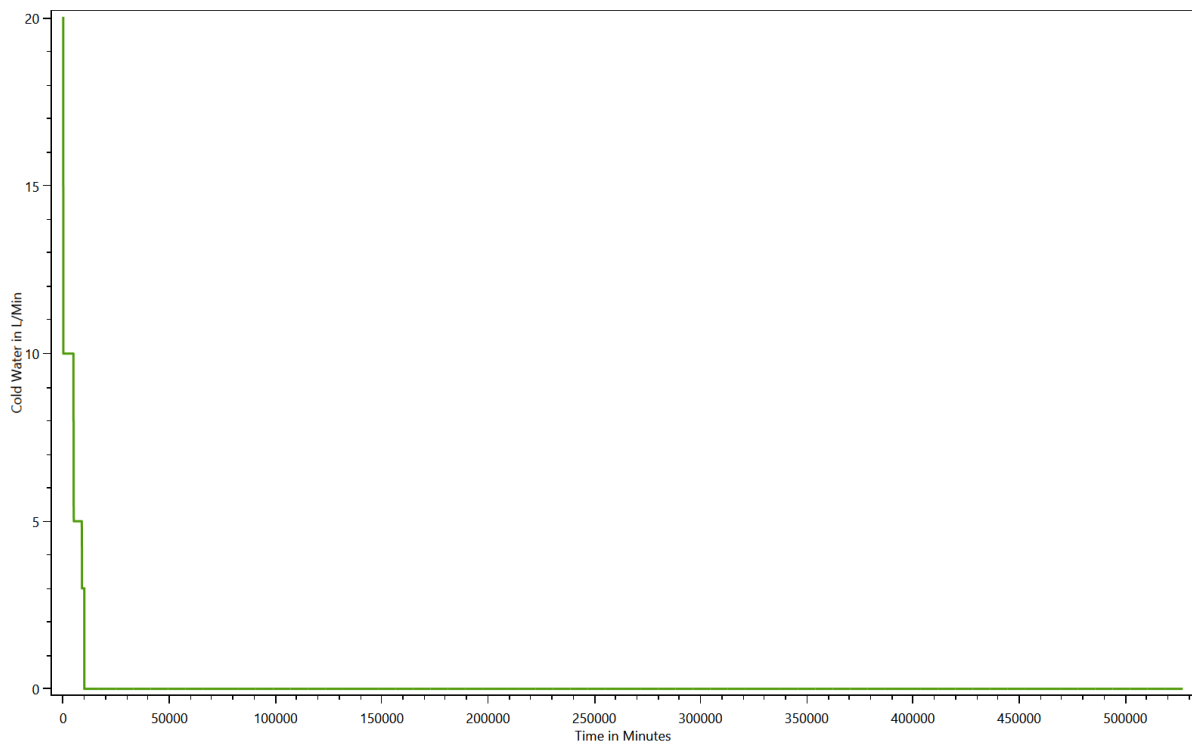


Duration curve for each load type

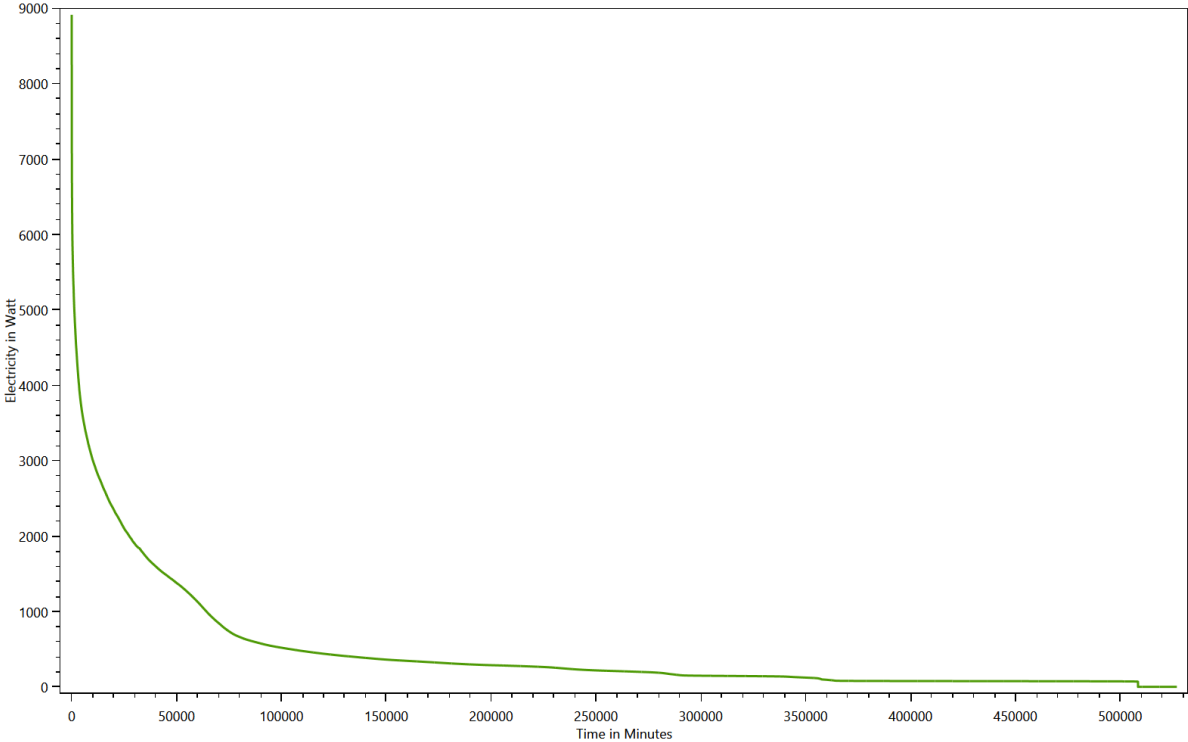
This is made from the files starting with: DurationCurve

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

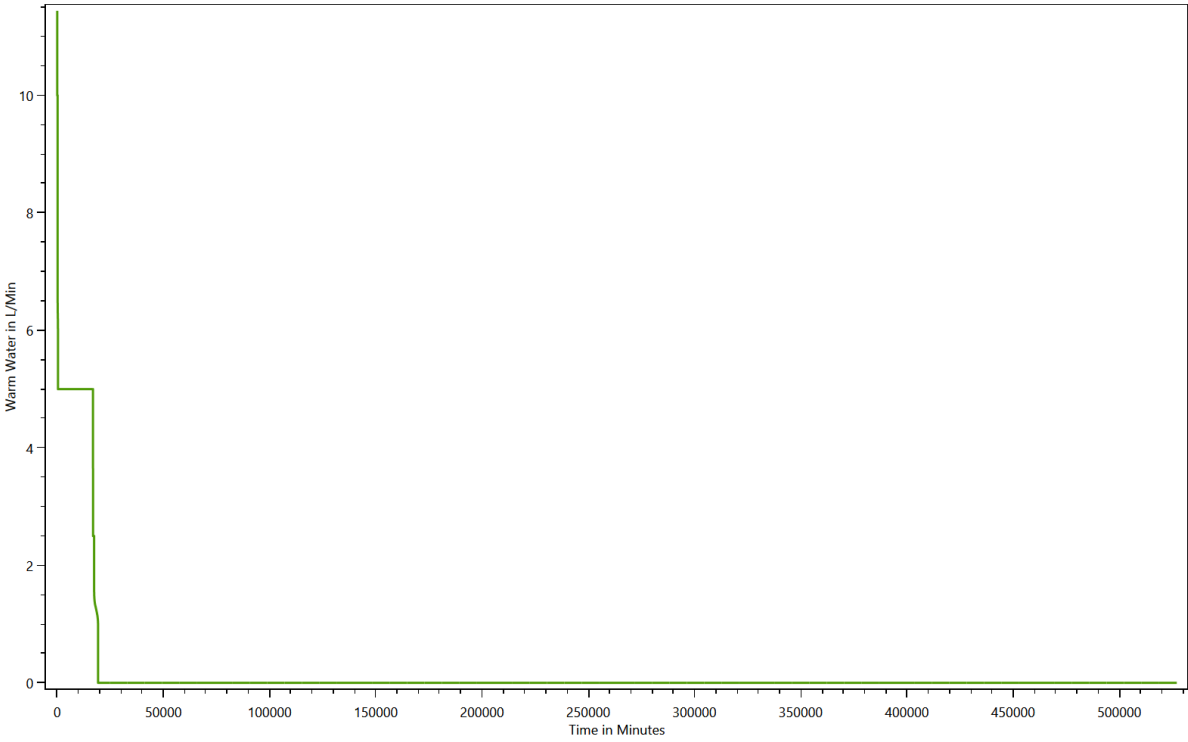
Cold Water



Electricity



Warm Water

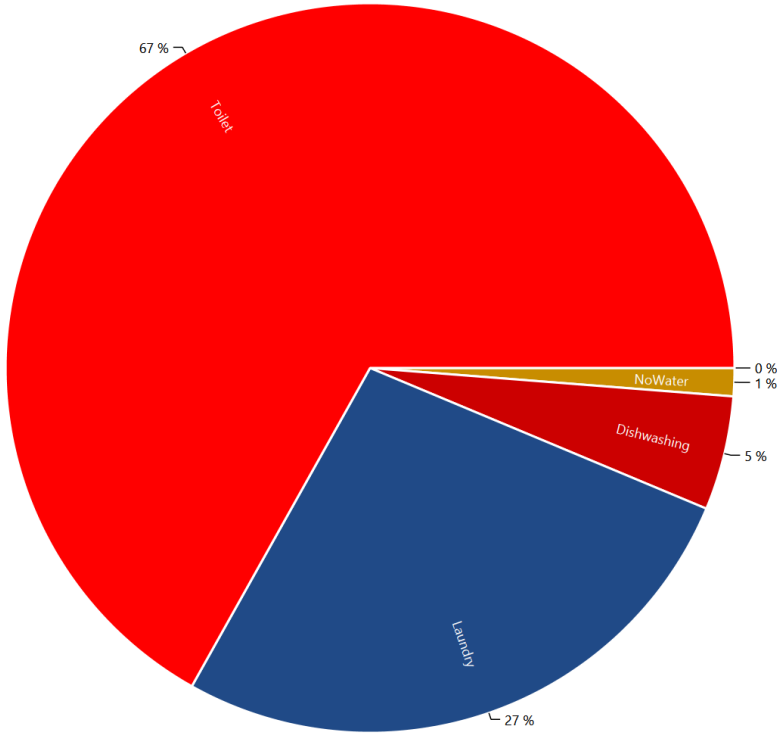


Grouped energy use for each load type for each device

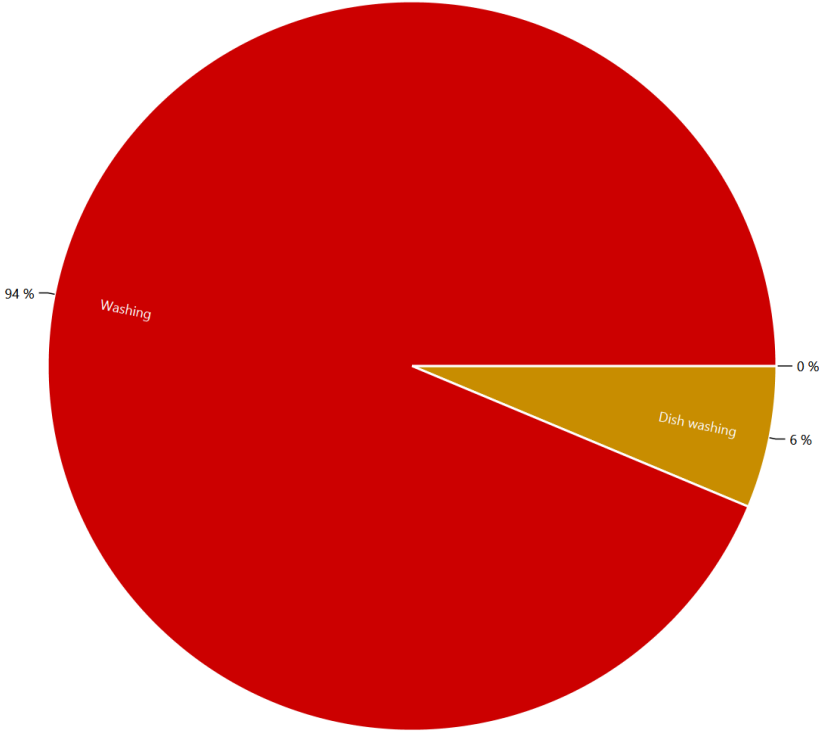
This is made from the files starting with: DeviceTaggingSet

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

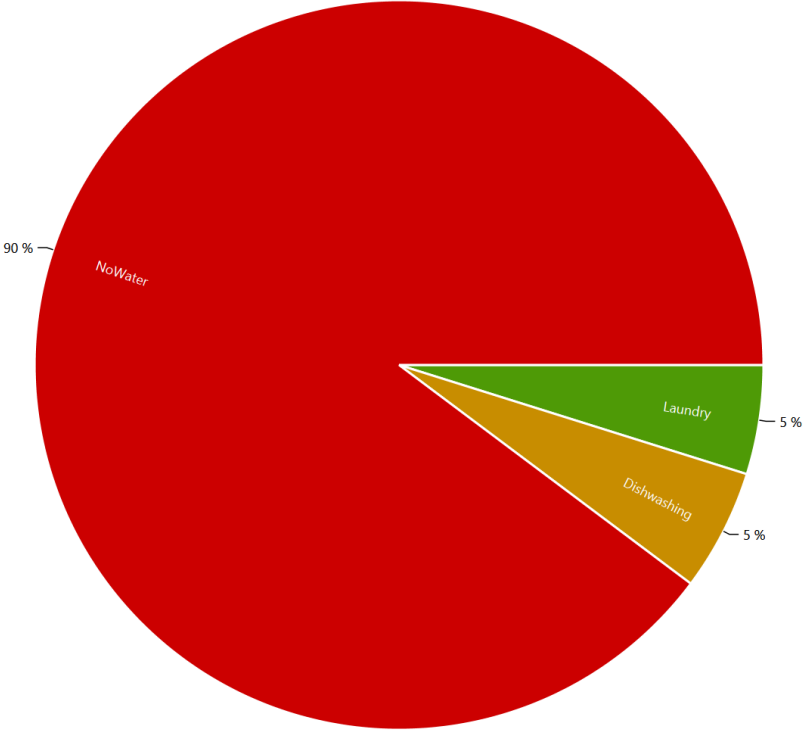
HH0 - Destatis Water Usage Statistics - Cold Water



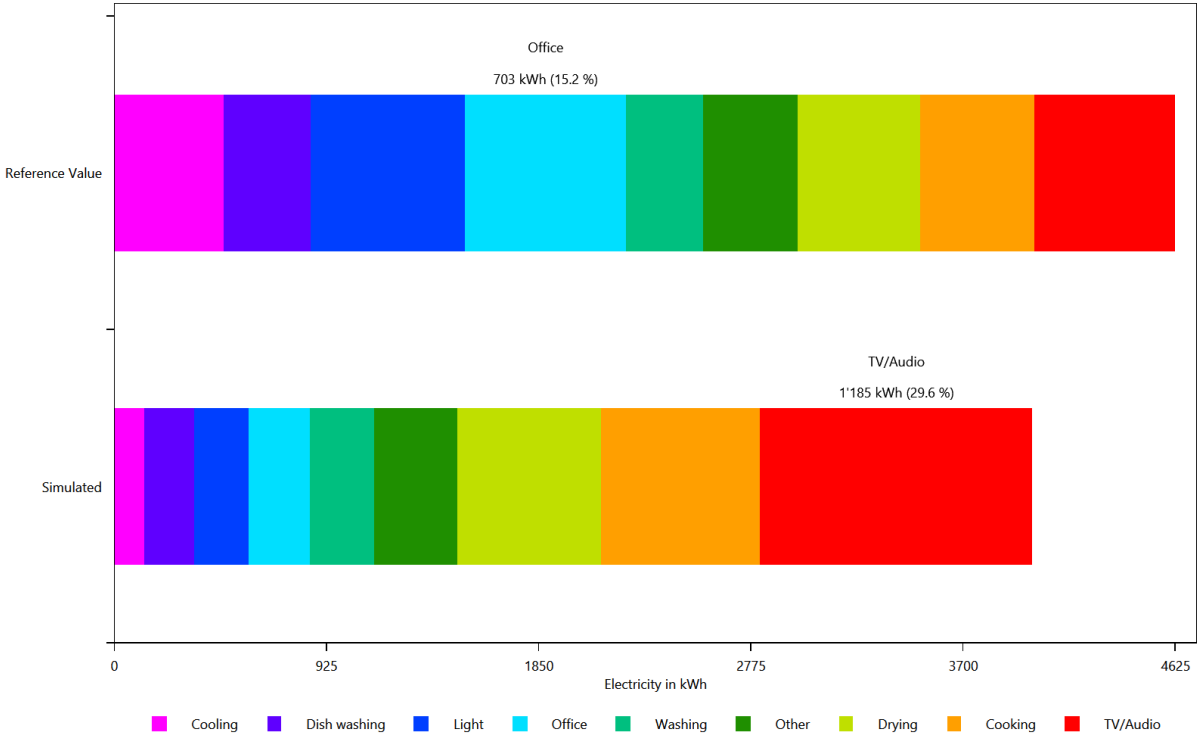
HH0 - Energieagentur - Cold Water



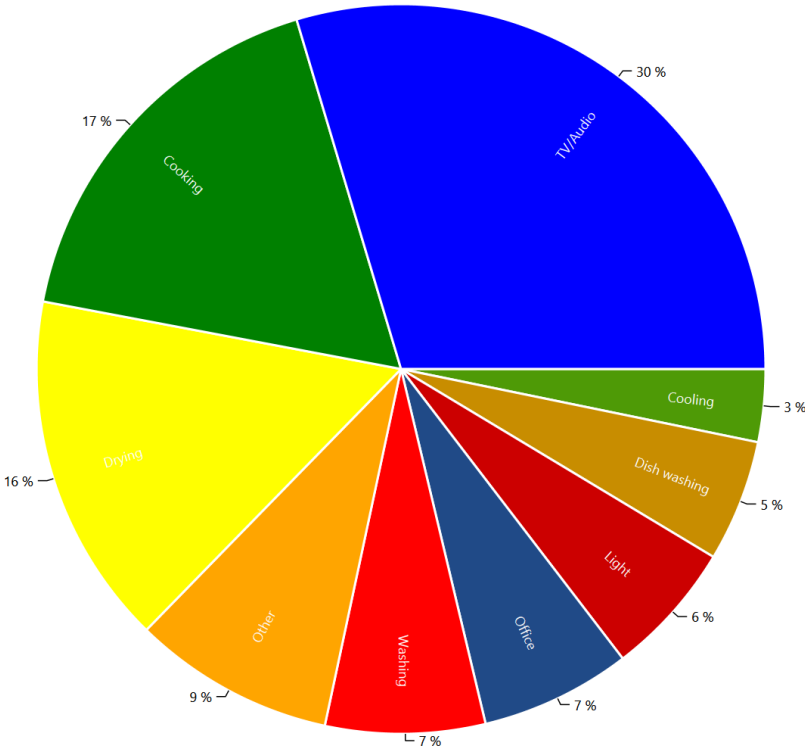
HH0 - Destatis Water Usage Statistics - Electricity



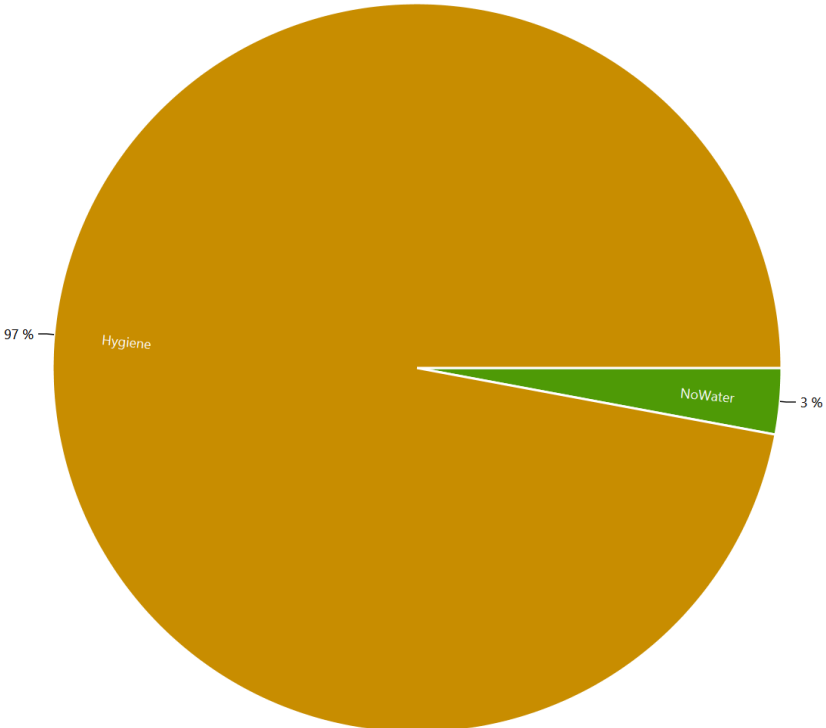
HH0 - Energieagentur - Electricity



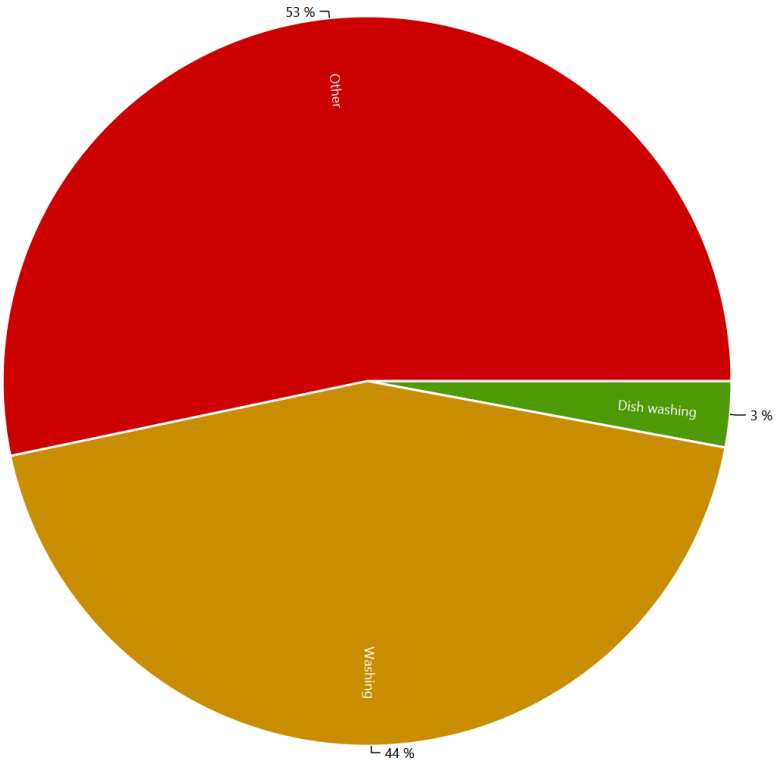
HH0 - Energieagentur - Electricity



HH0 - Destatis Water Usage Statistics - Warm Water



HH0 - Energieagentur - Warm Water

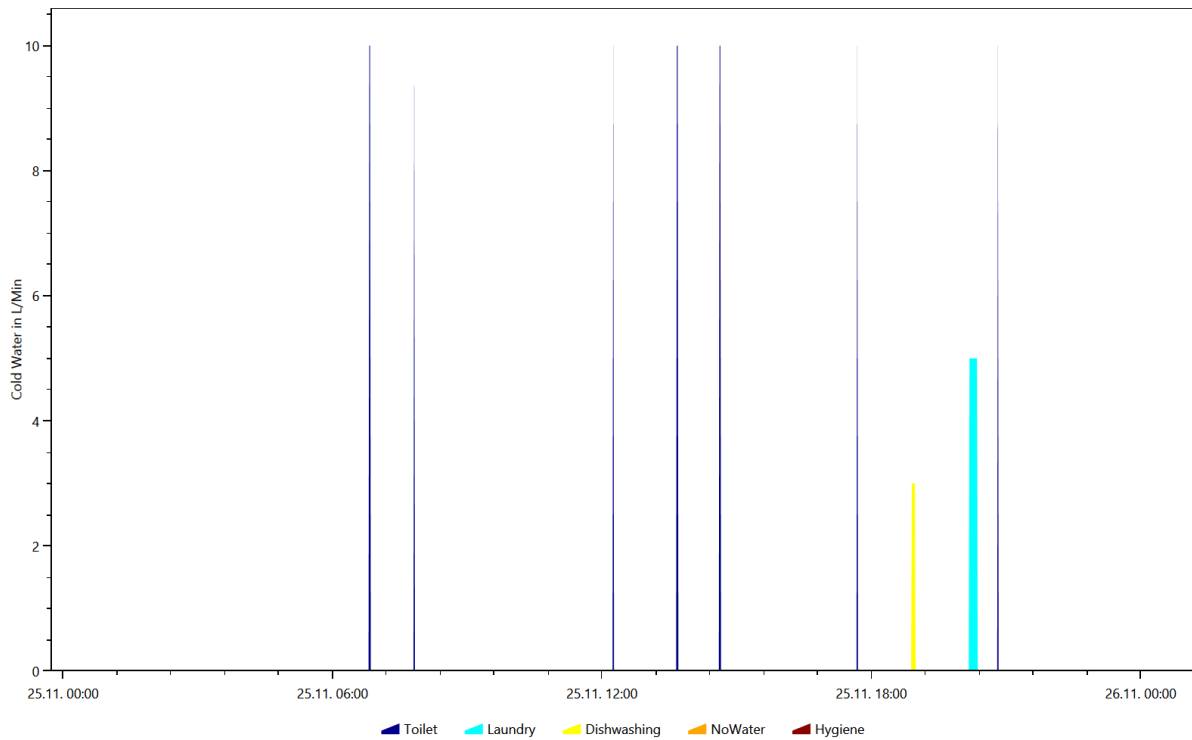


Example of the device profiles for each load type

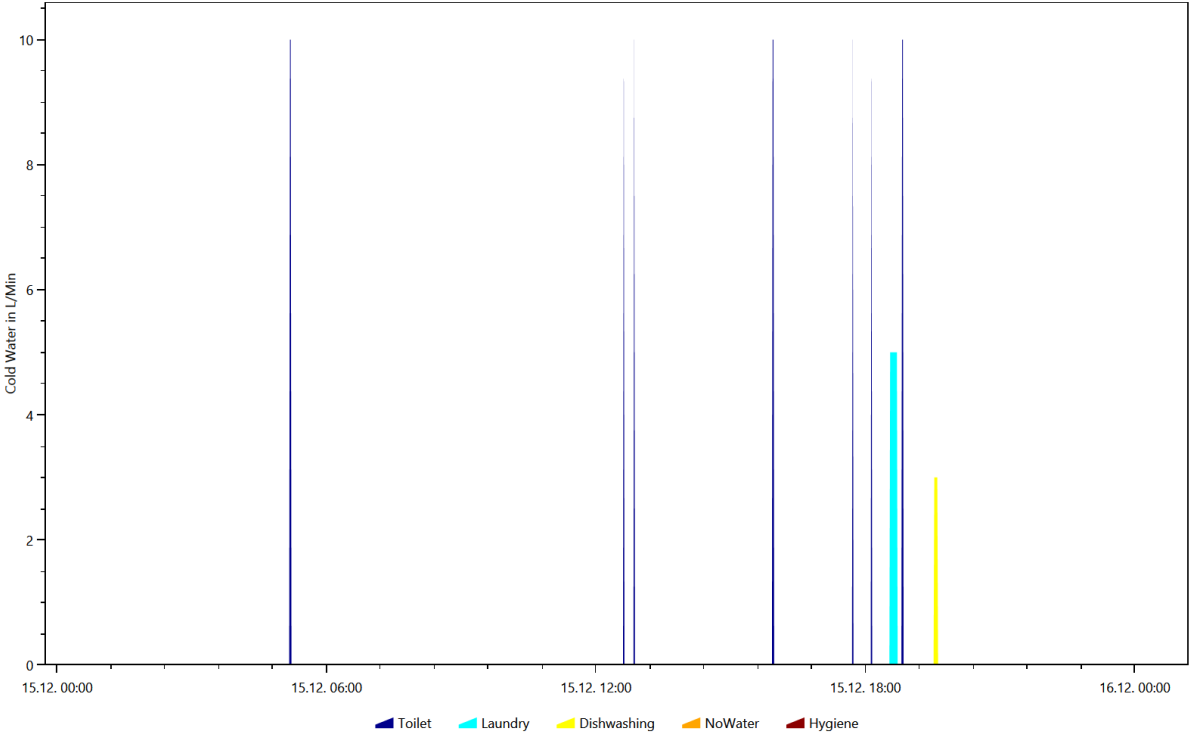
This is made from the files starting with: DeviceProfiles

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

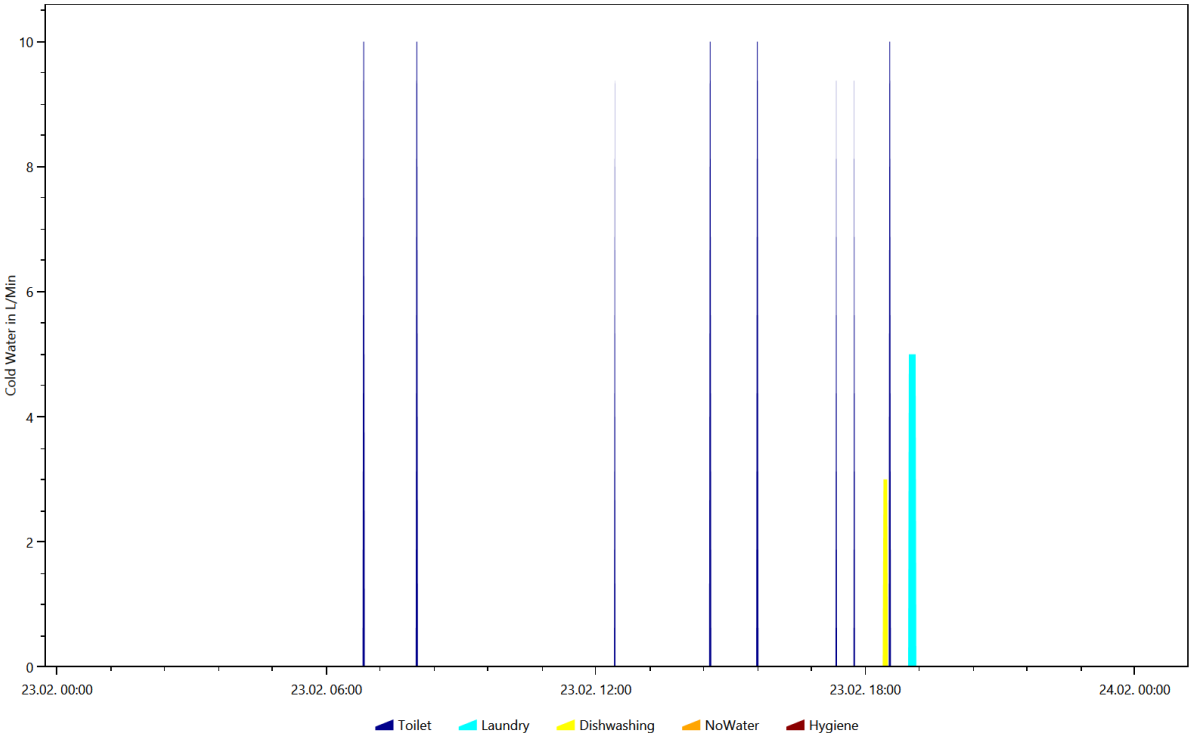
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.11.25



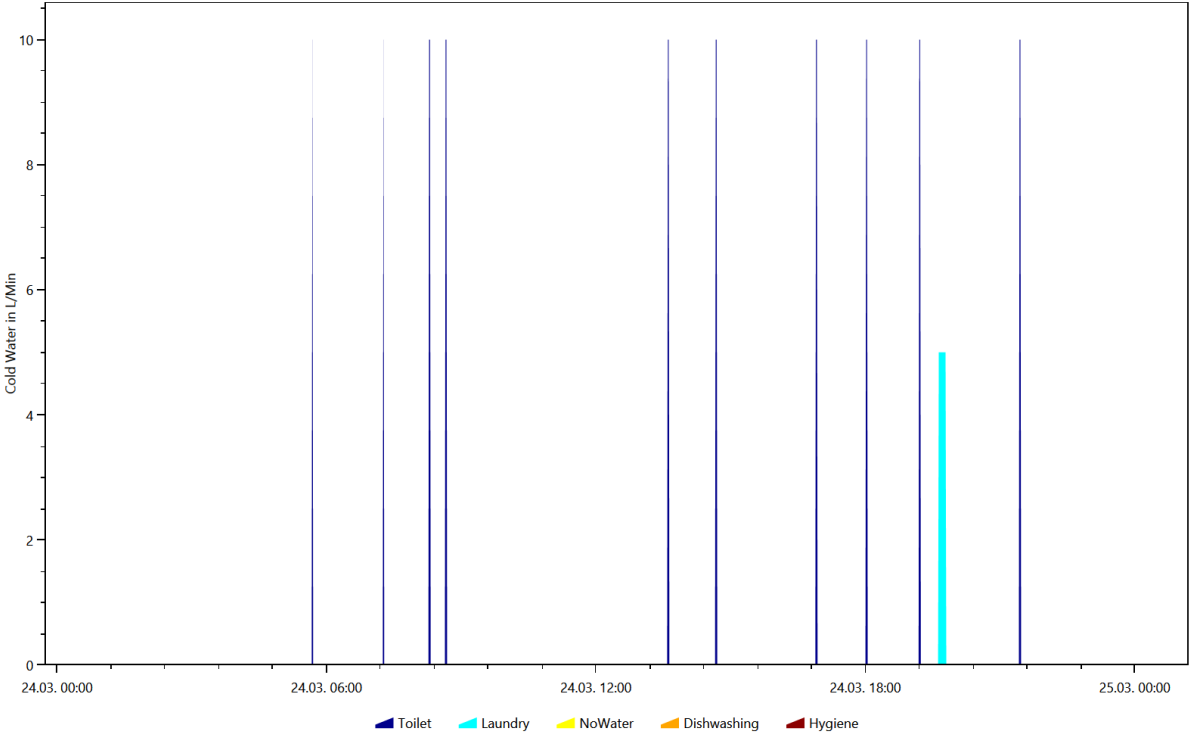
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.12.15



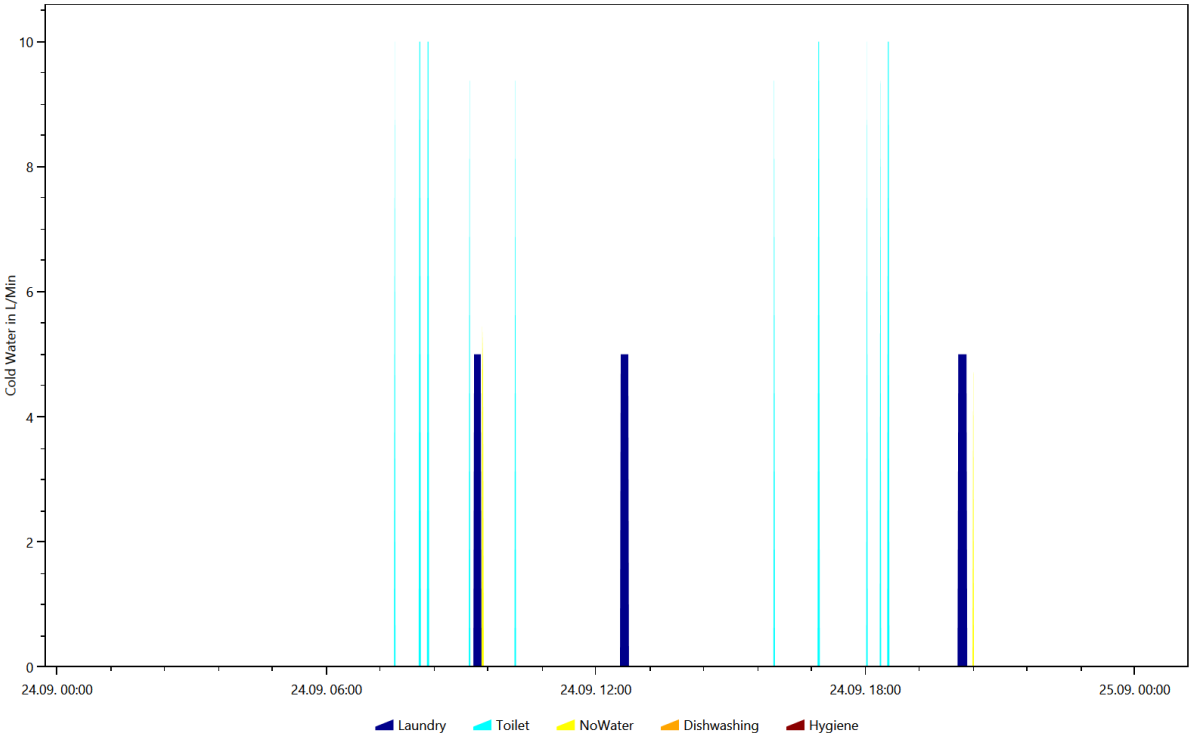
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.2.23



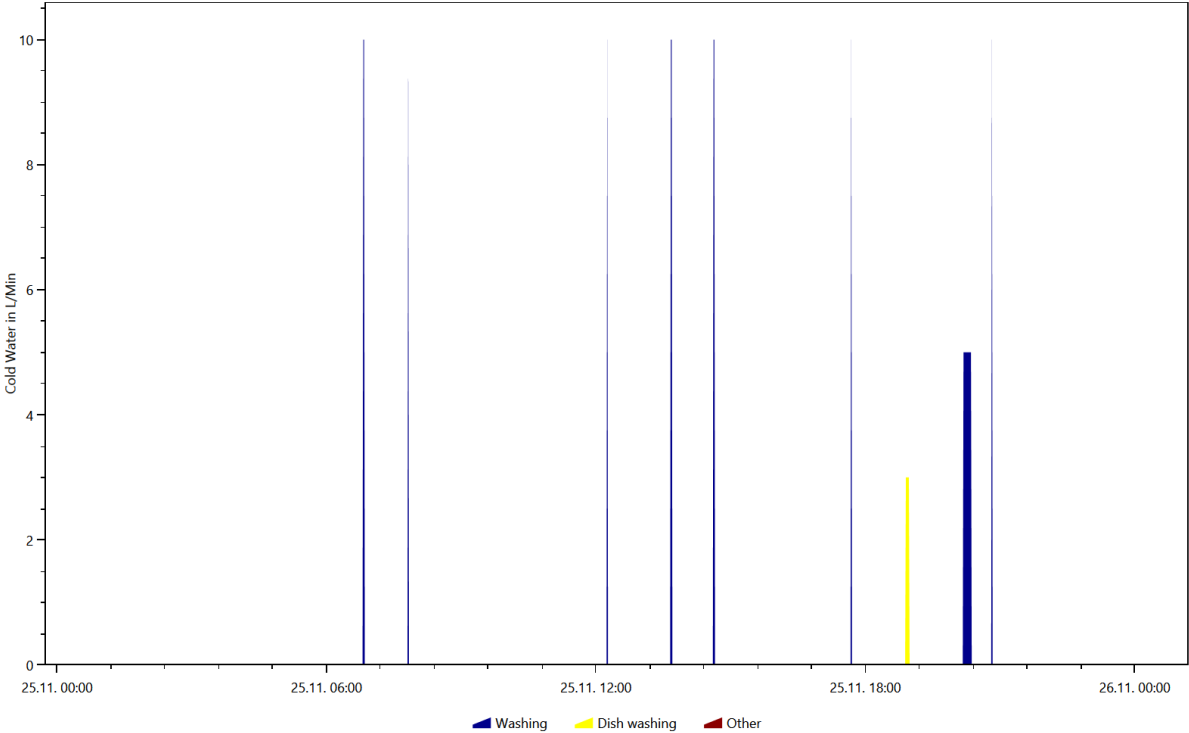
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.3.24



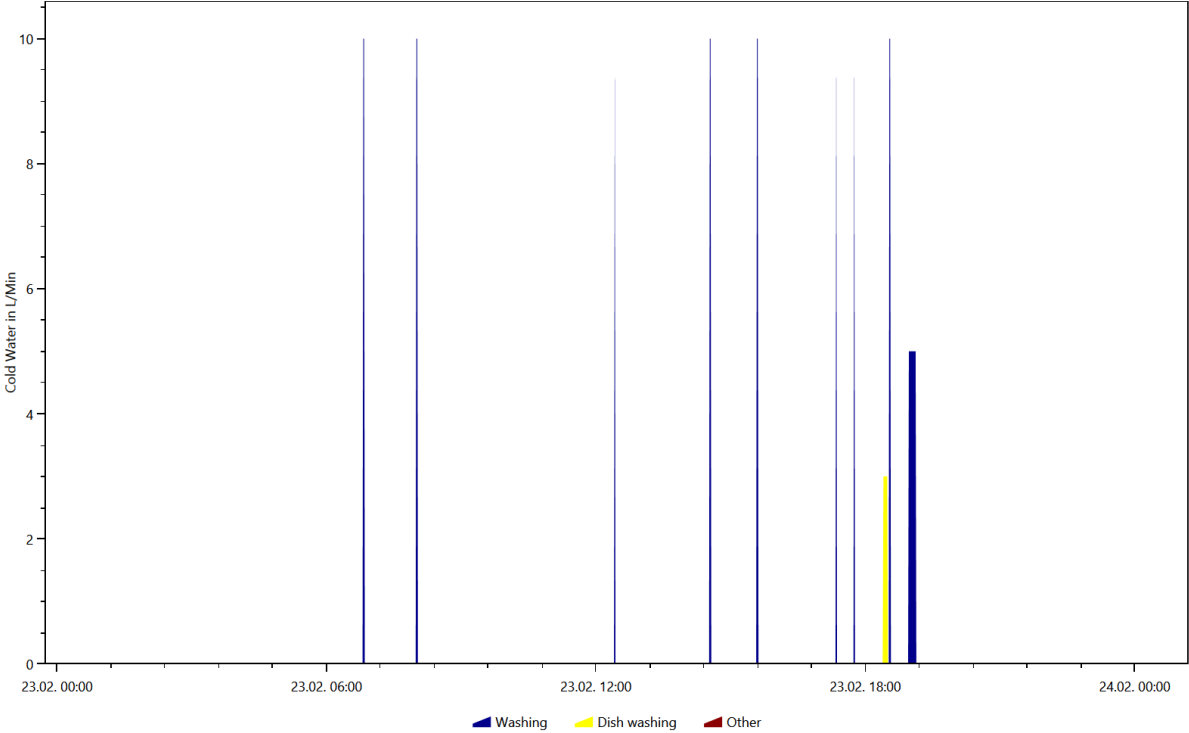
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.9.24



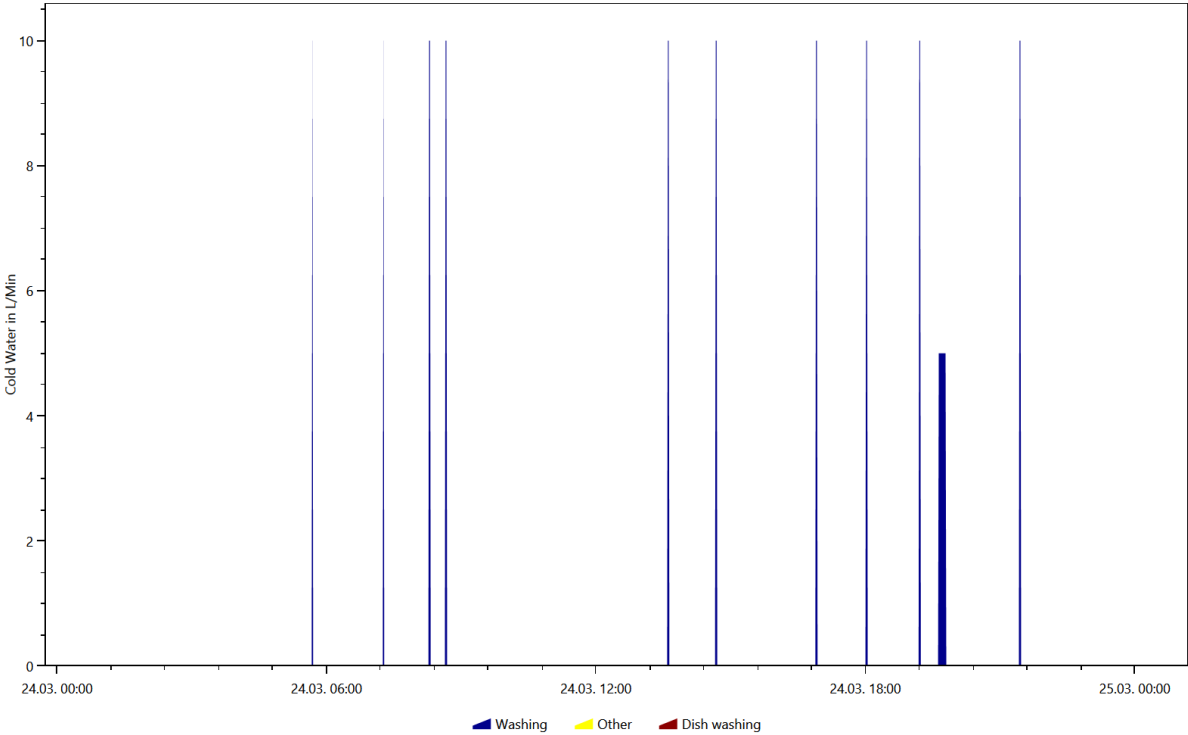
Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.11.25



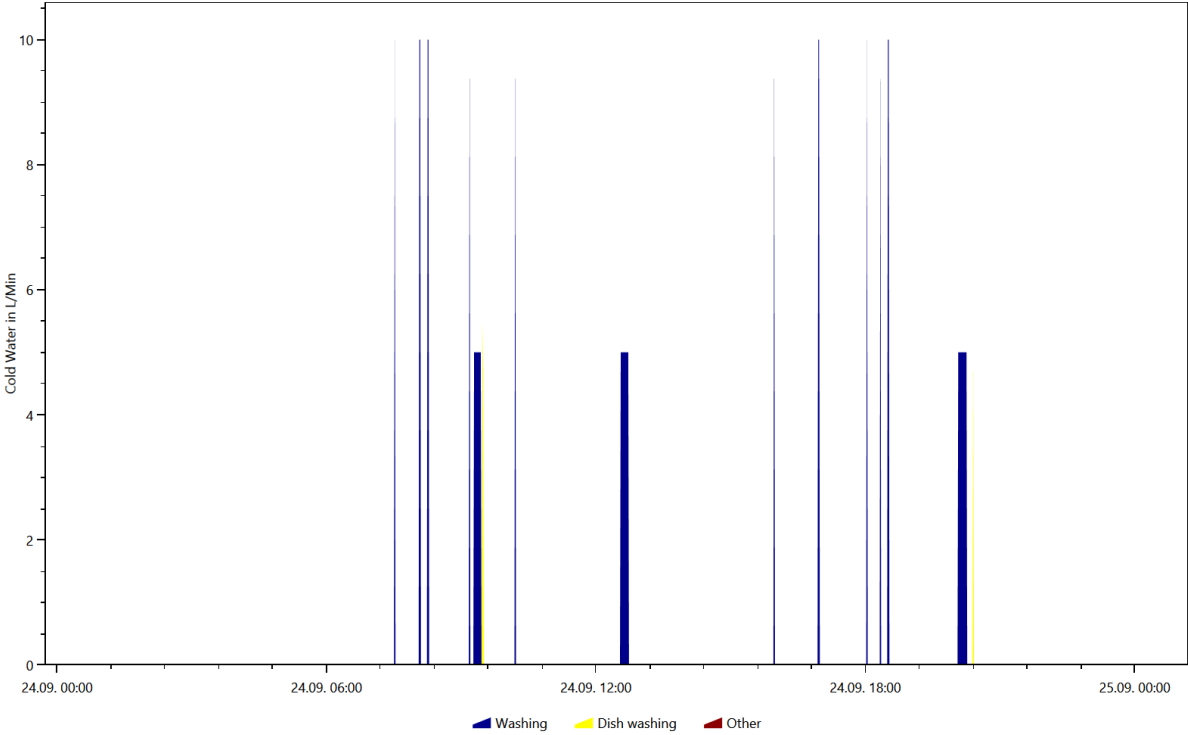
Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.2.23



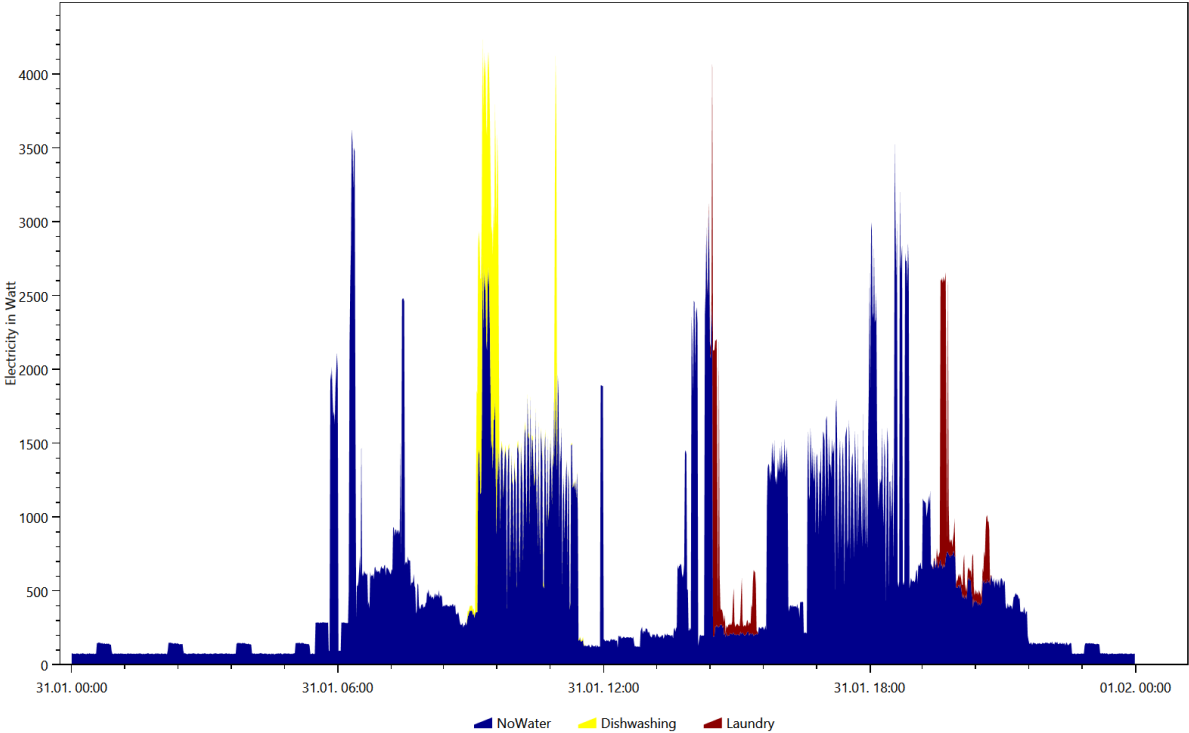
Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.3.24



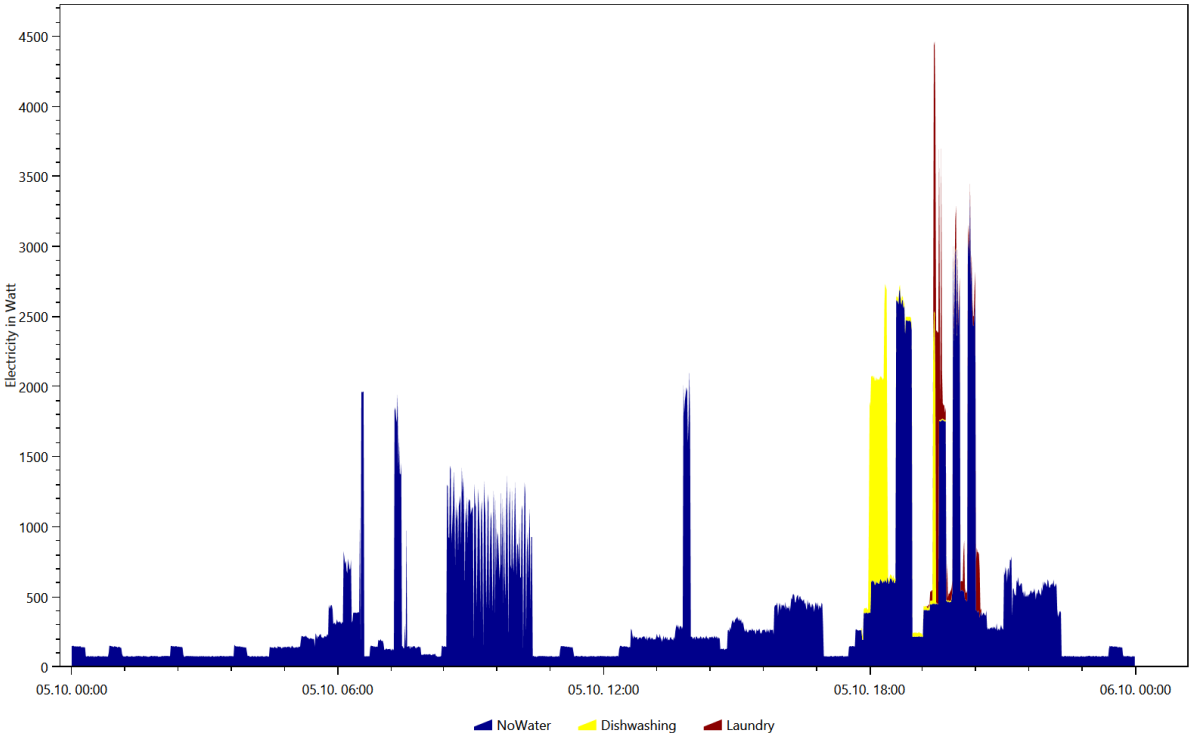
Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.9.24



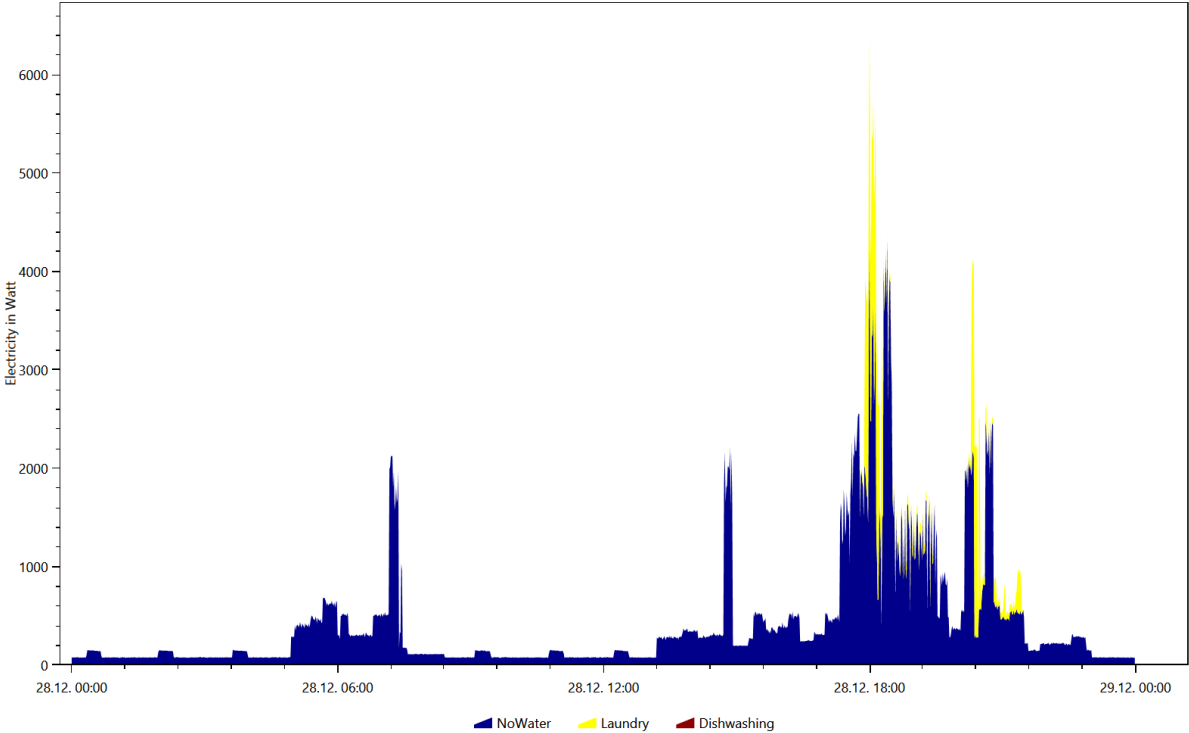
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.1.31



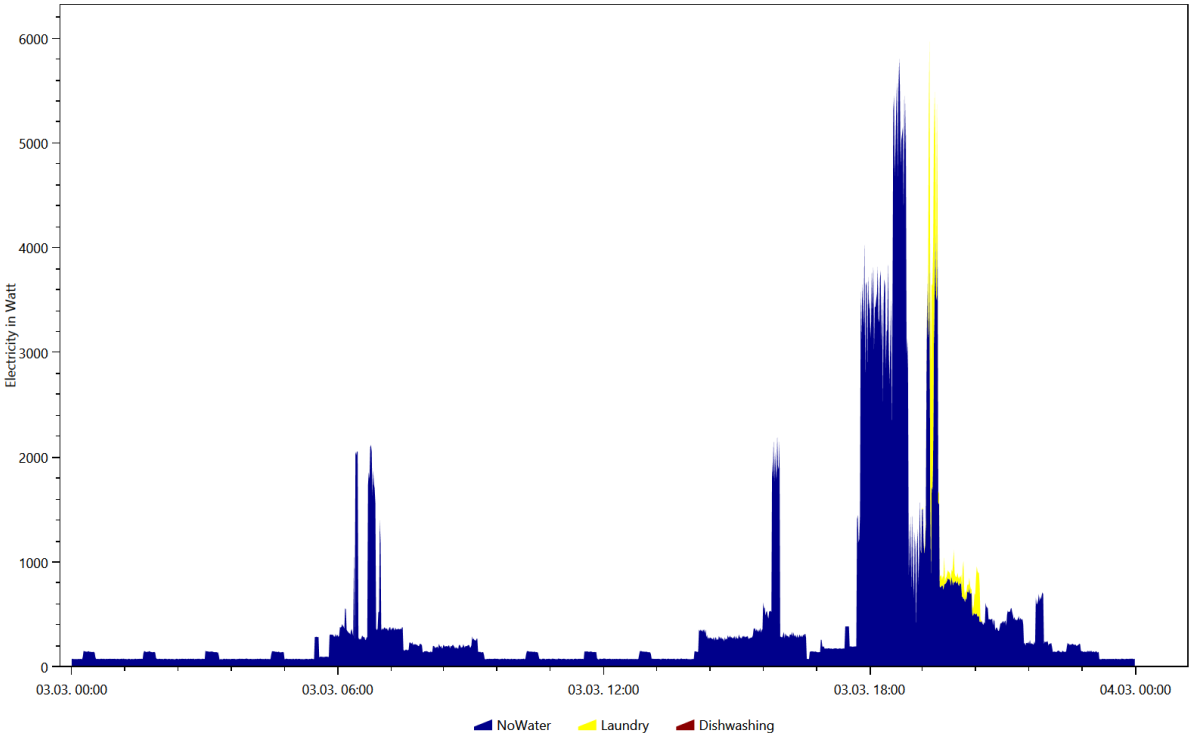
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.10.5



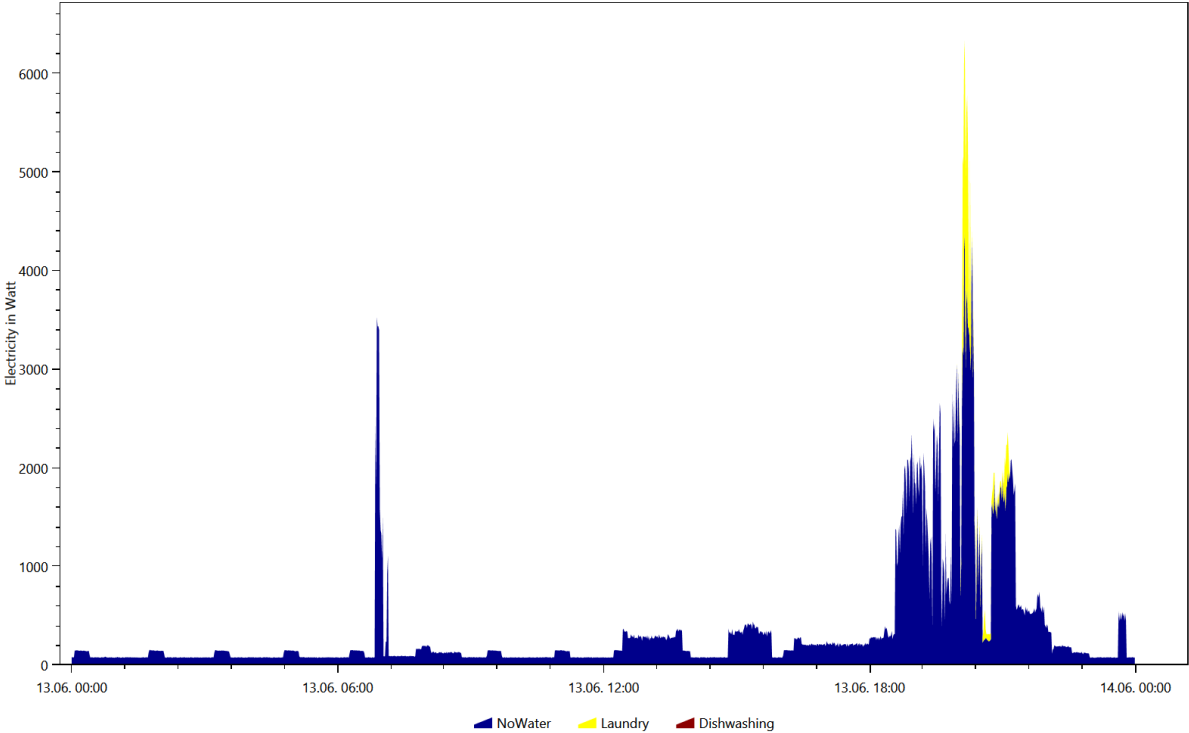
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.12.28



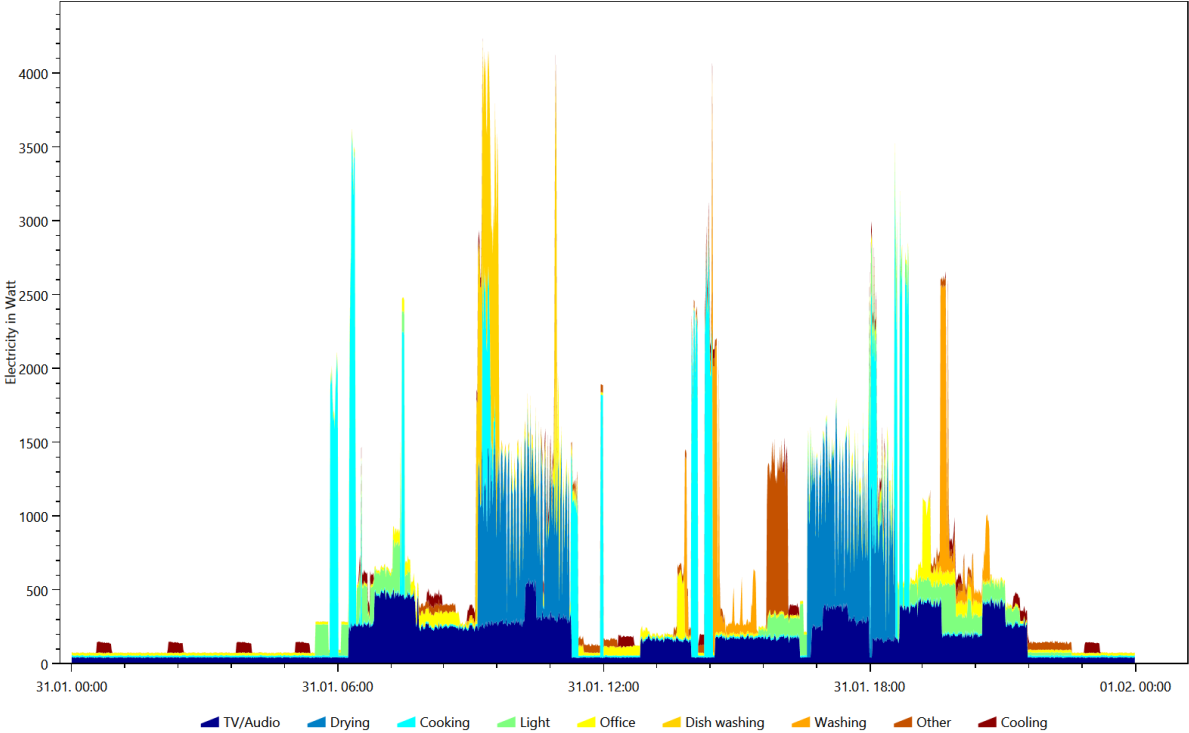
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.3.3



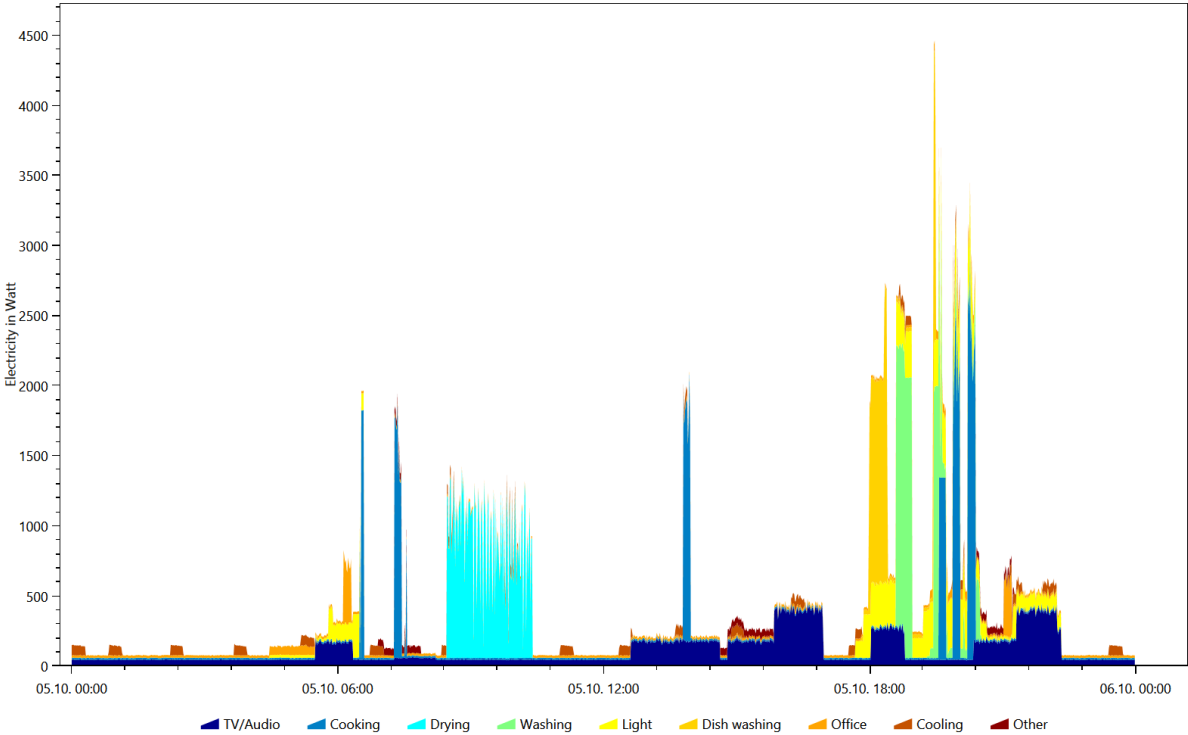
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.6.13



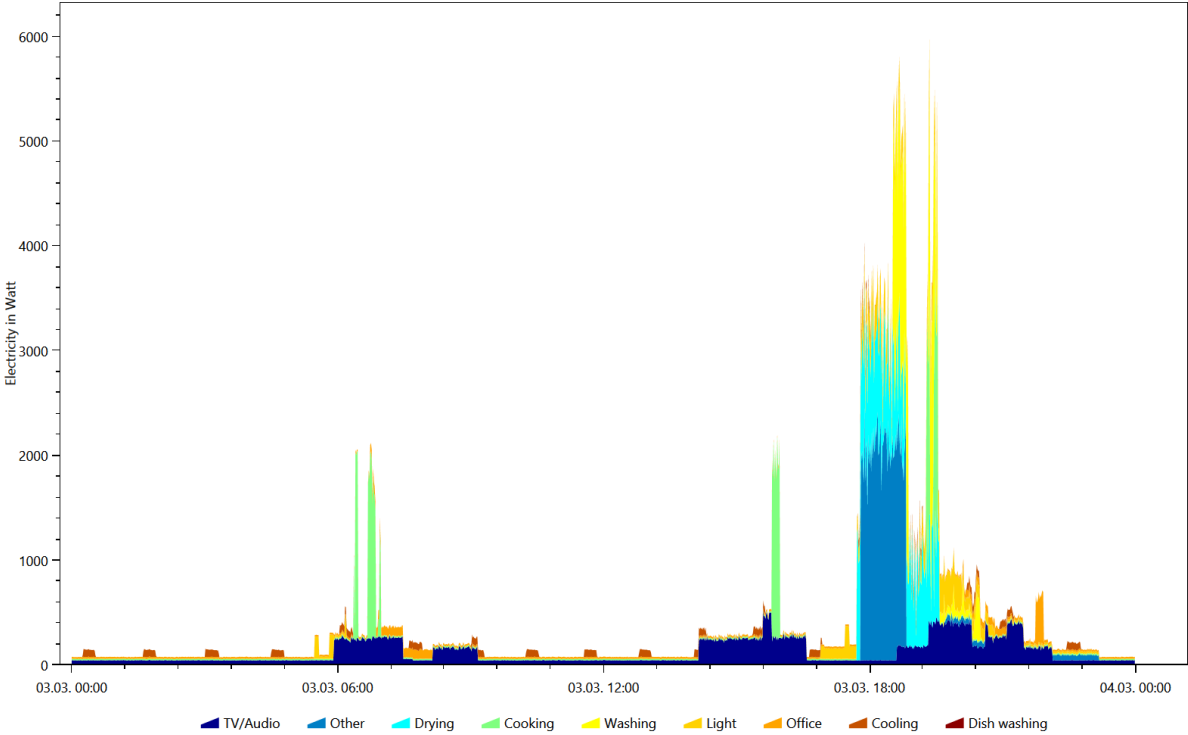
Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.1.31



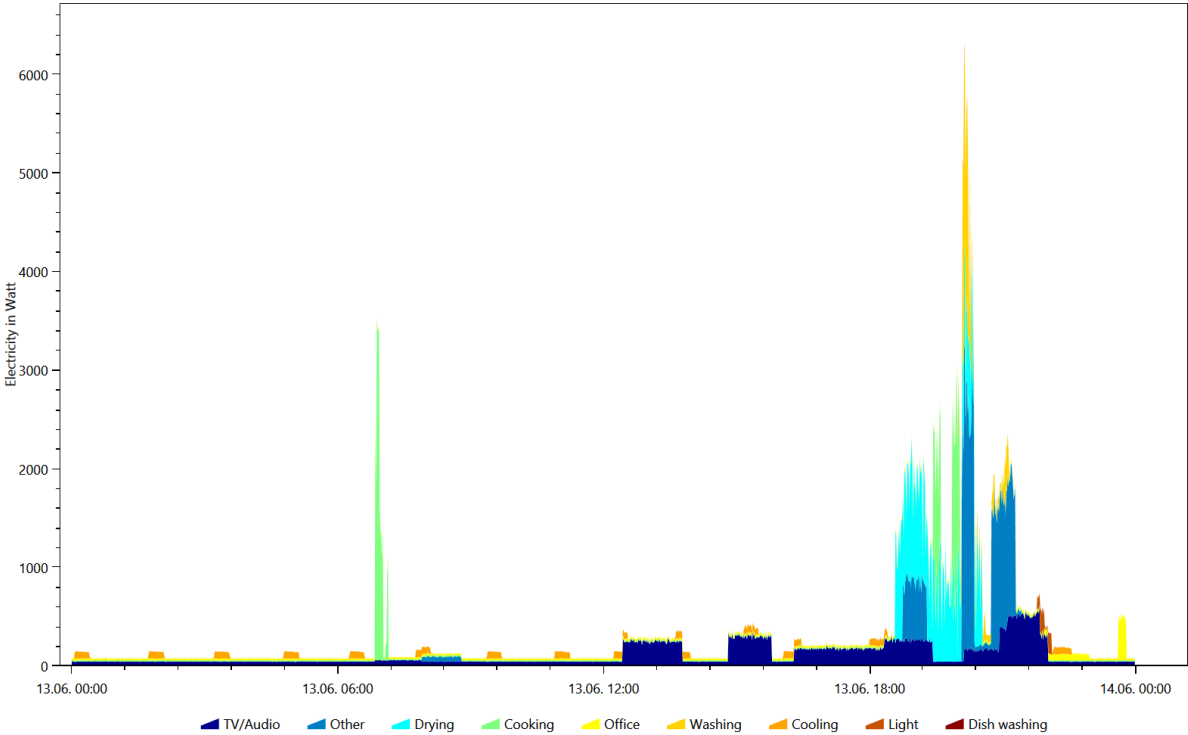
Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.10.5



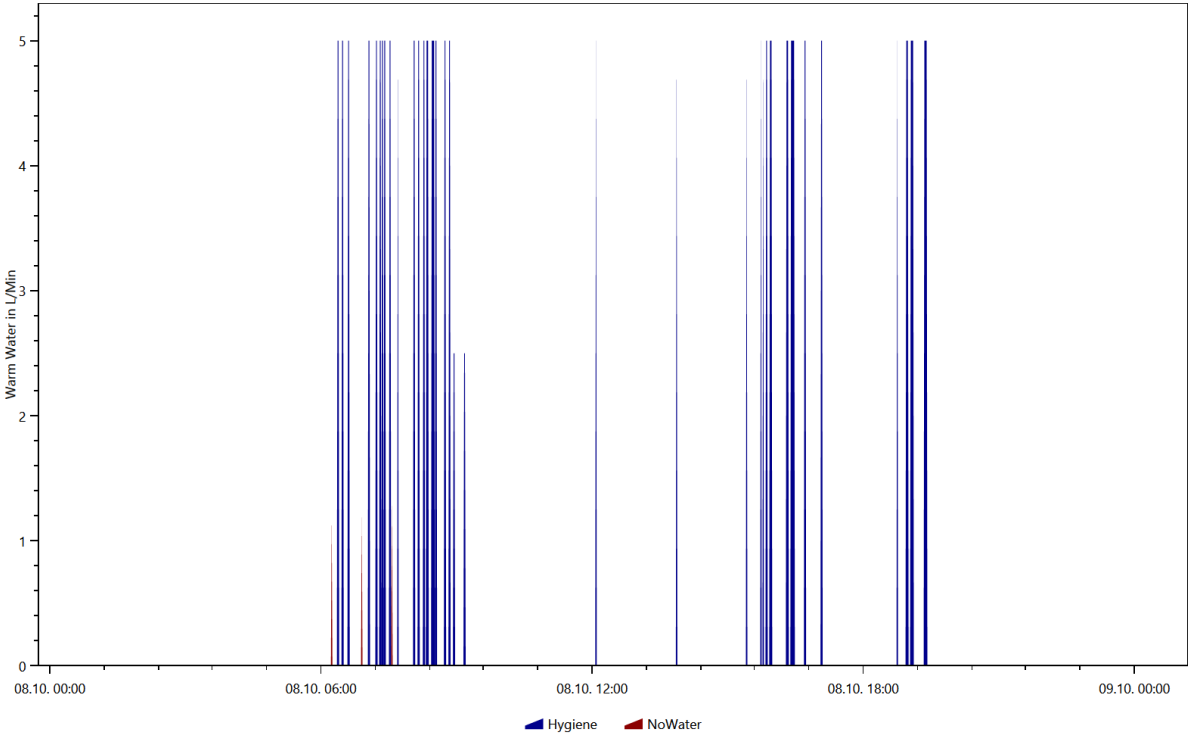
Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.3.3



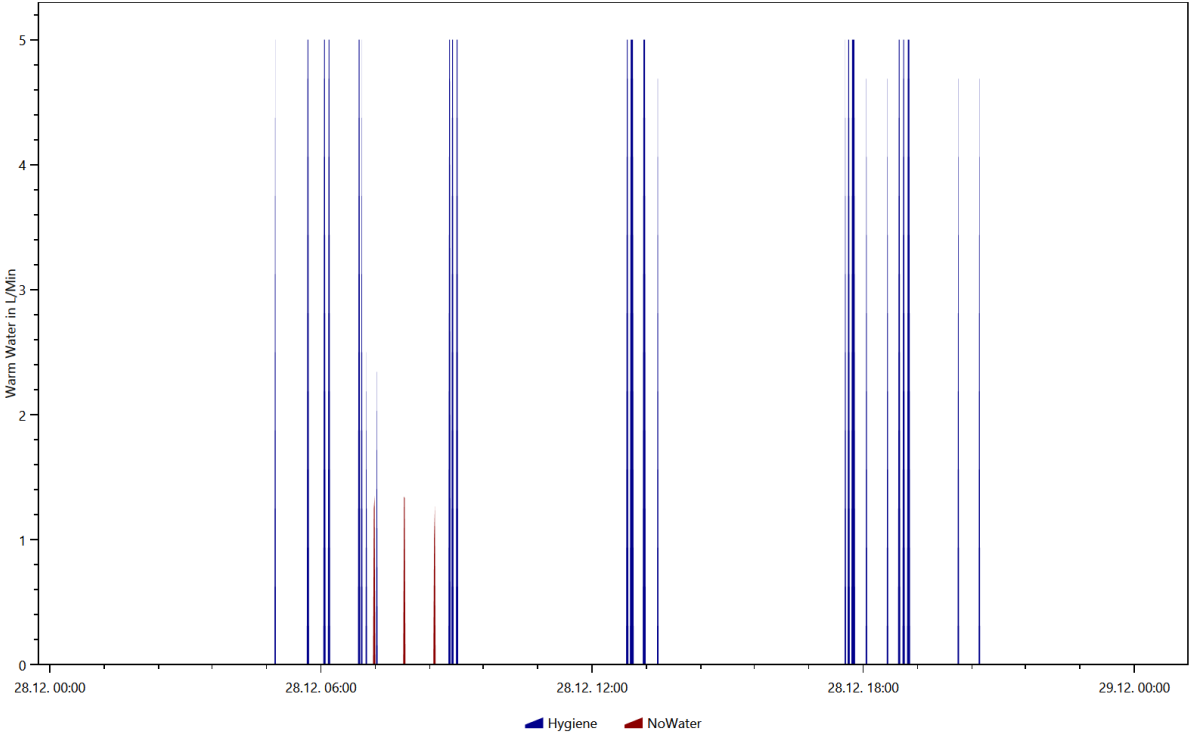
Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.6.13



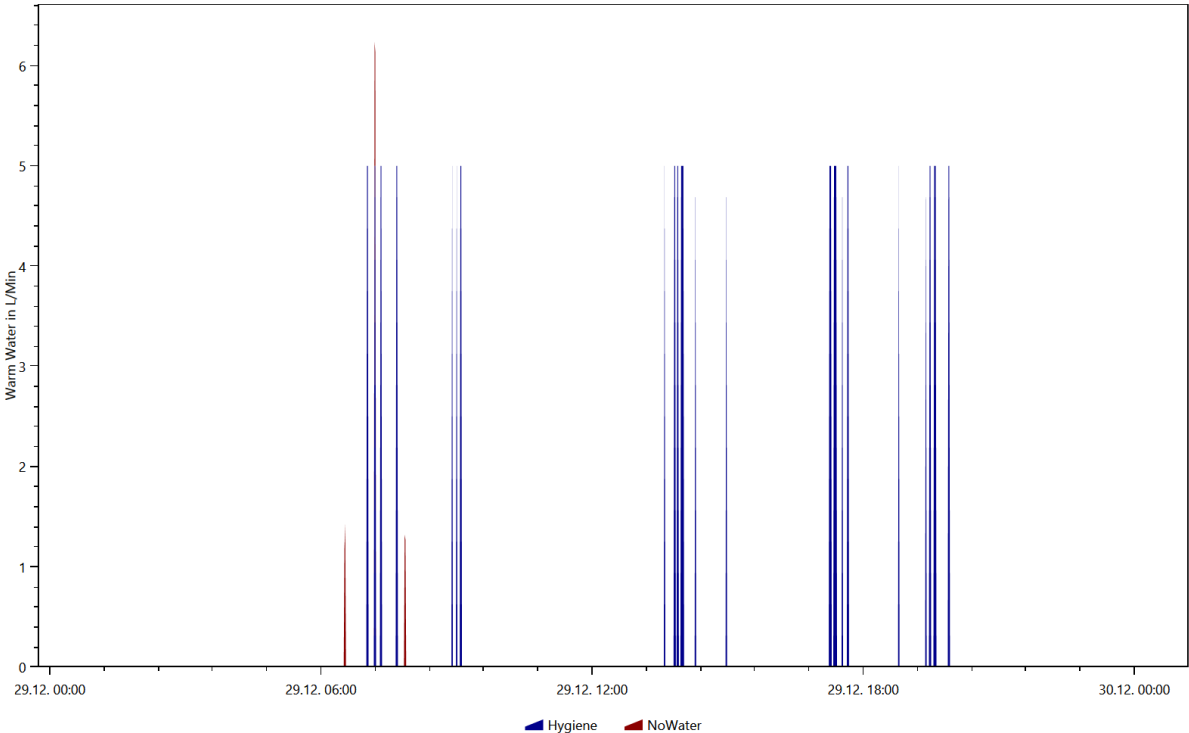
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.10.8



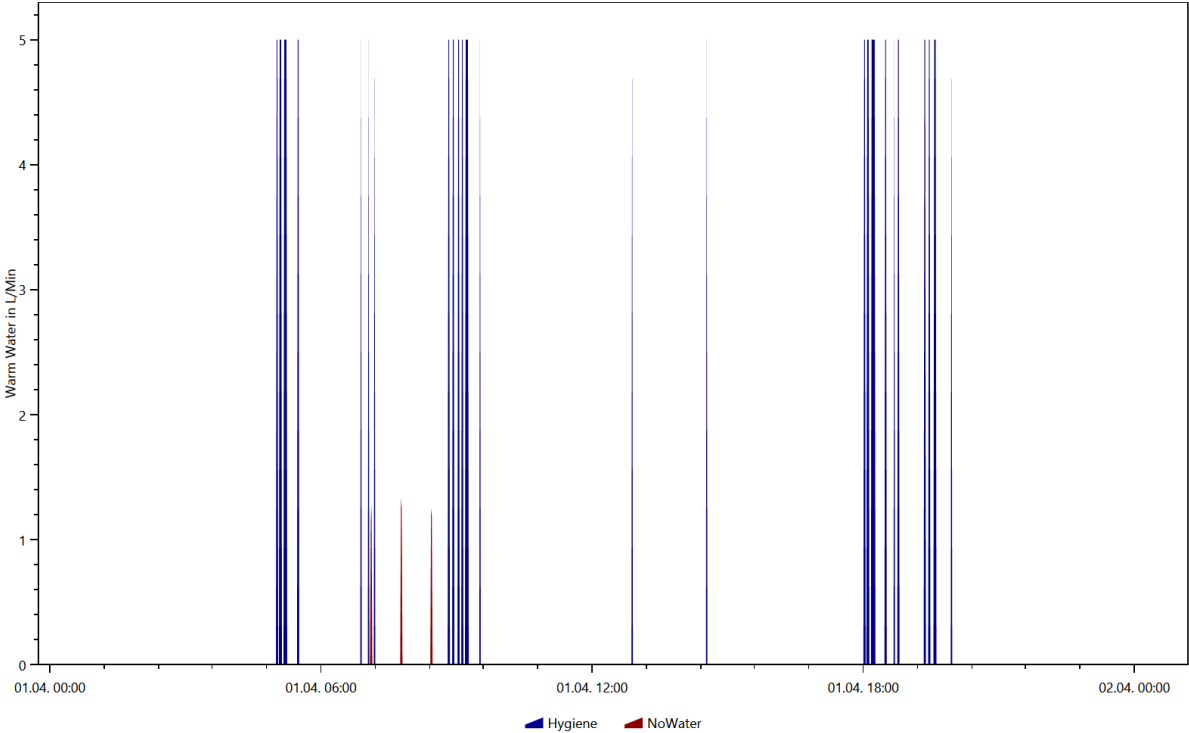
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.12.28



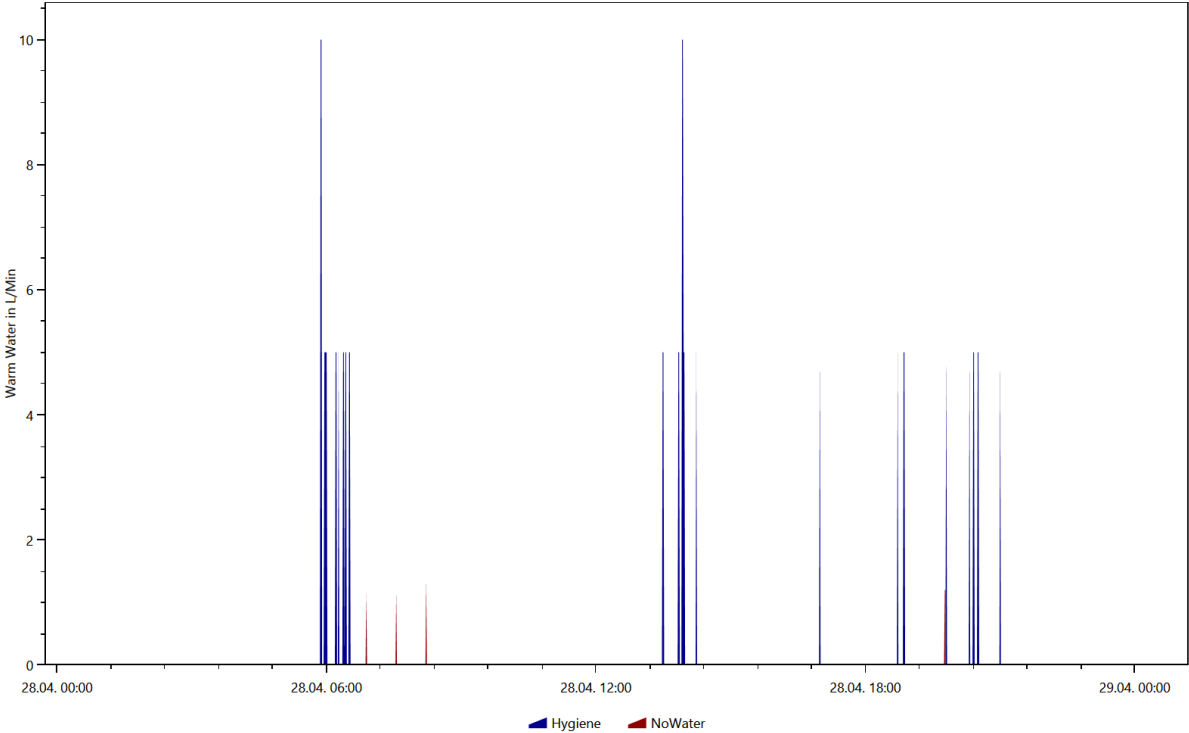
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.12.29



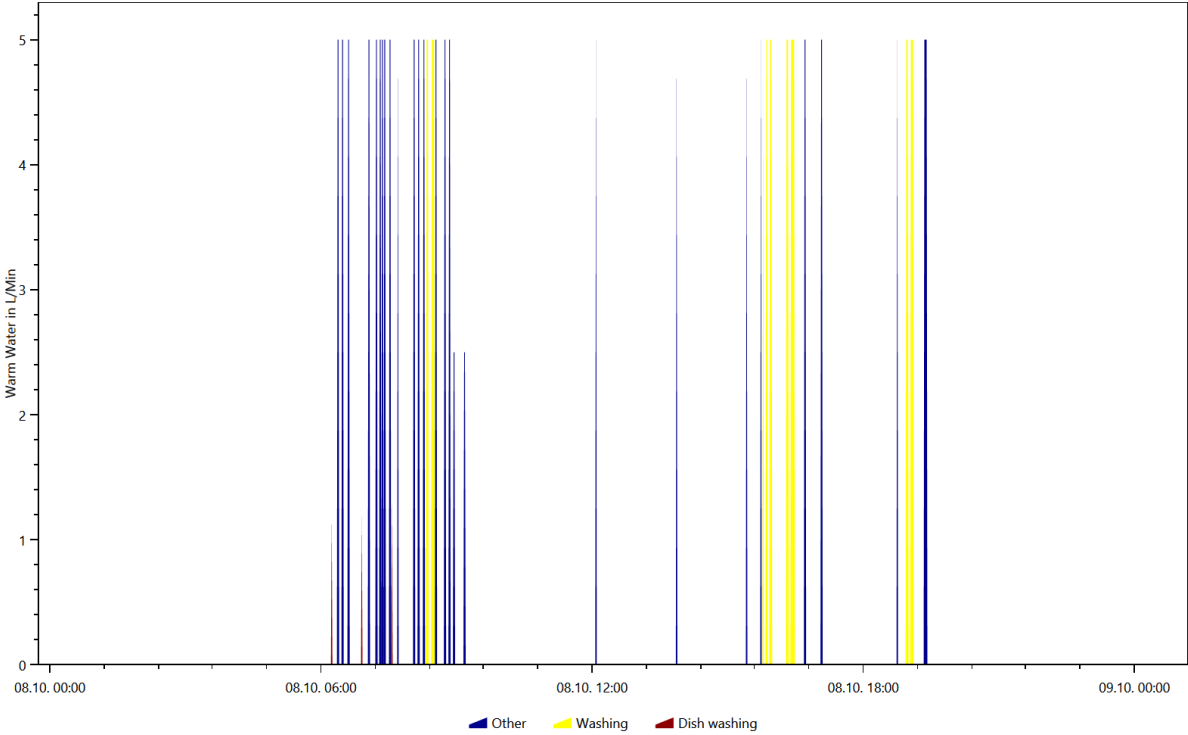
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.4.1



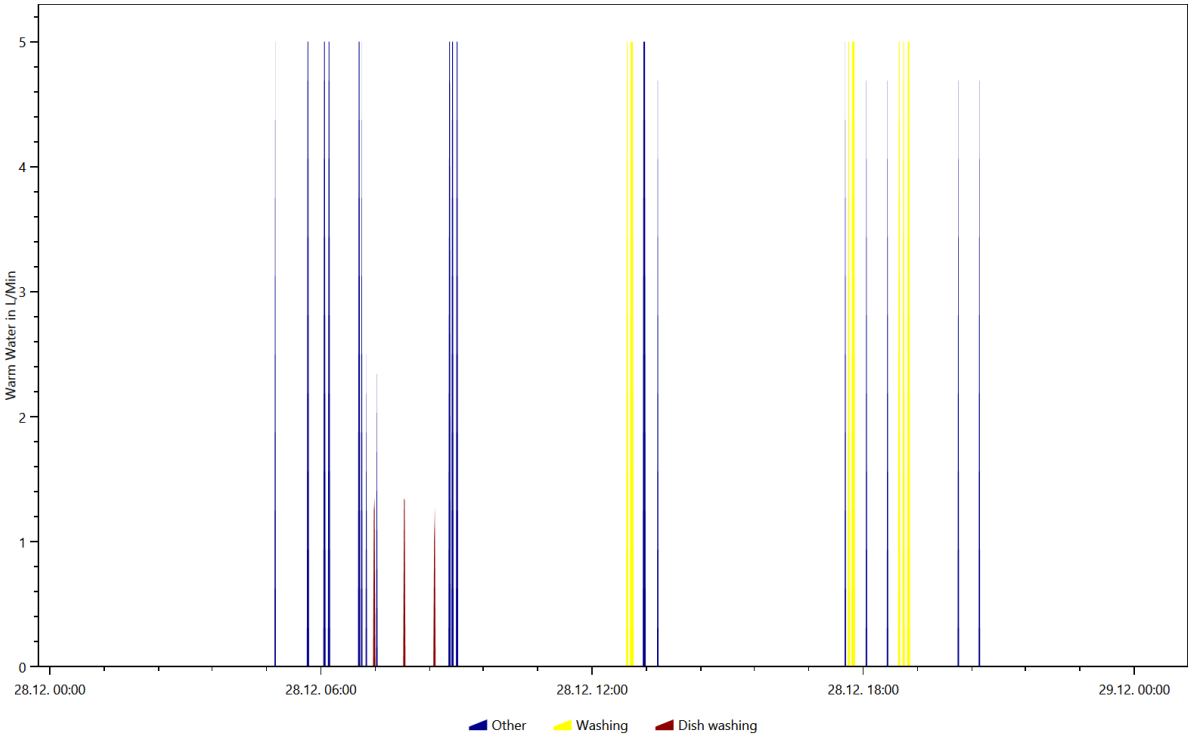
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.4.28



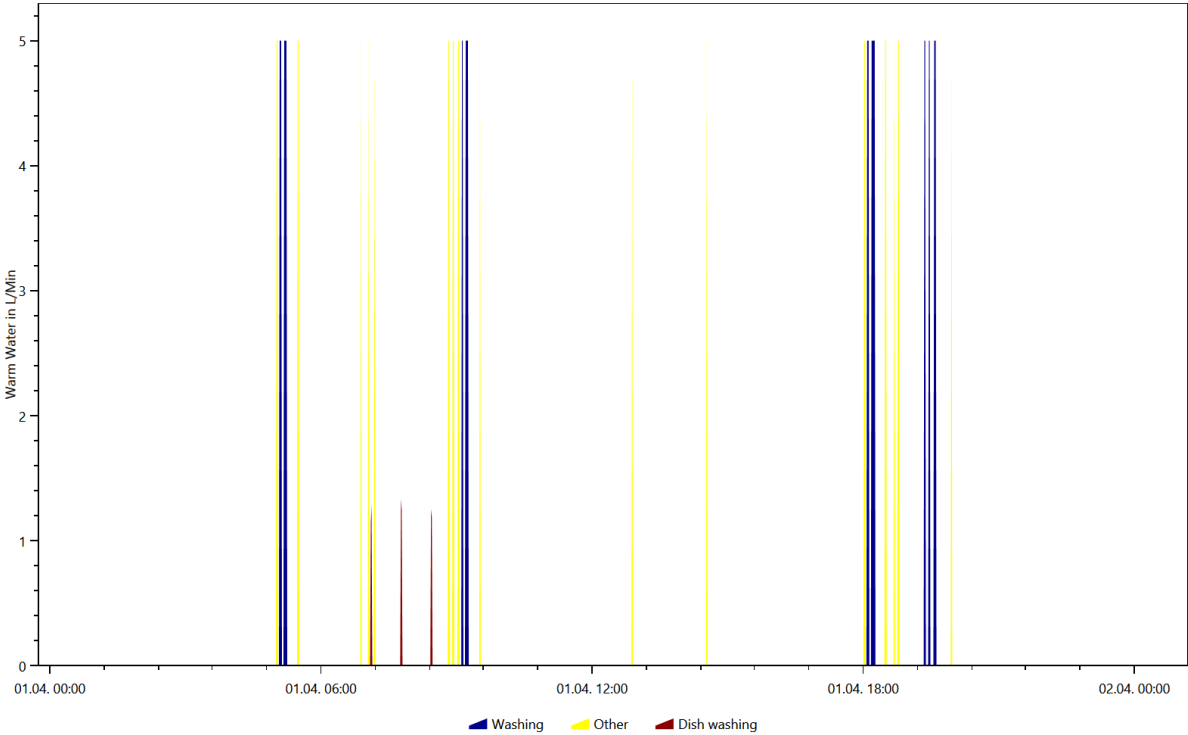
Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.10.8



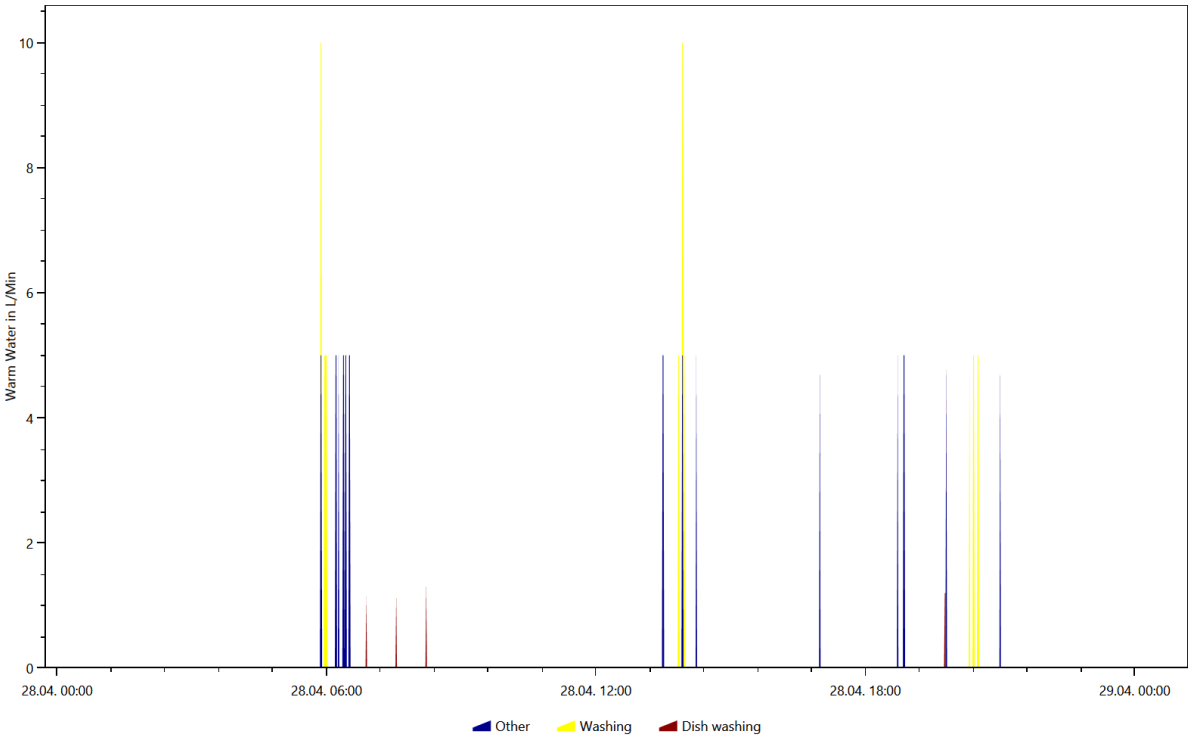
Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.12.28



Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.4.1



Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.4.28

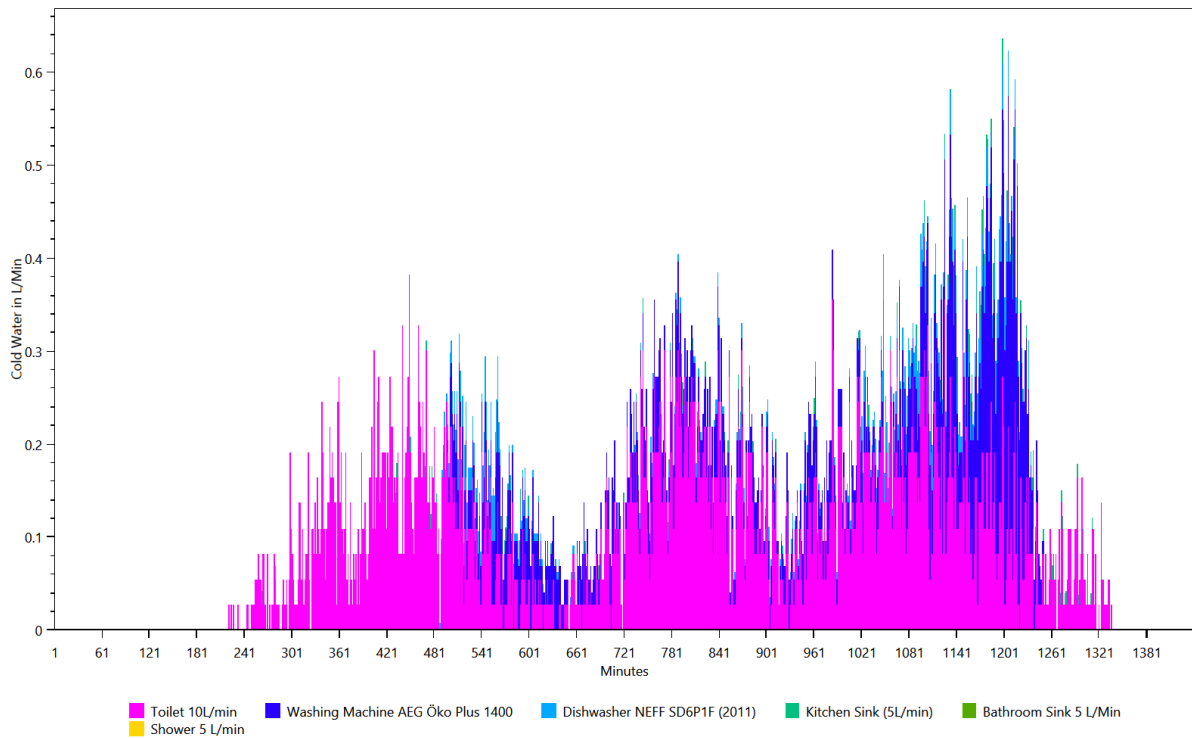


Overview of the time and power of the use per load type per device

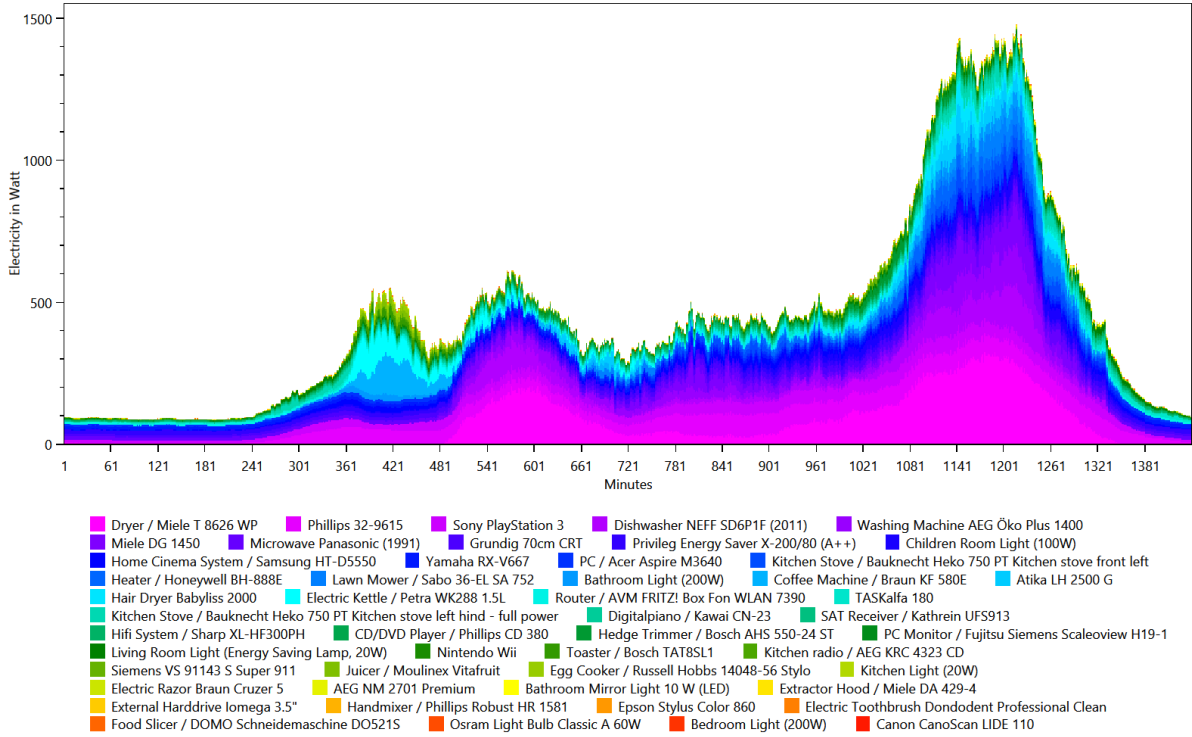
This is made from the files starting with: **TimeOfUseEnergyProfiles**

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

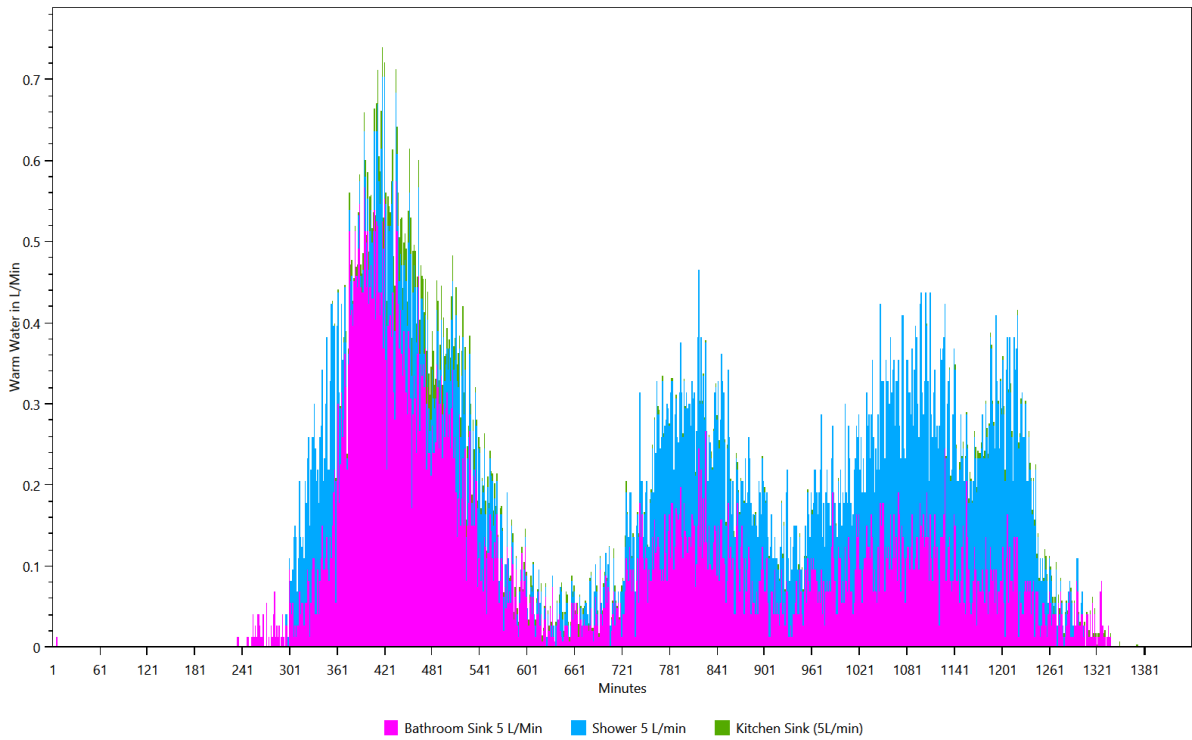
Cold Water



Electricity



Warm Water

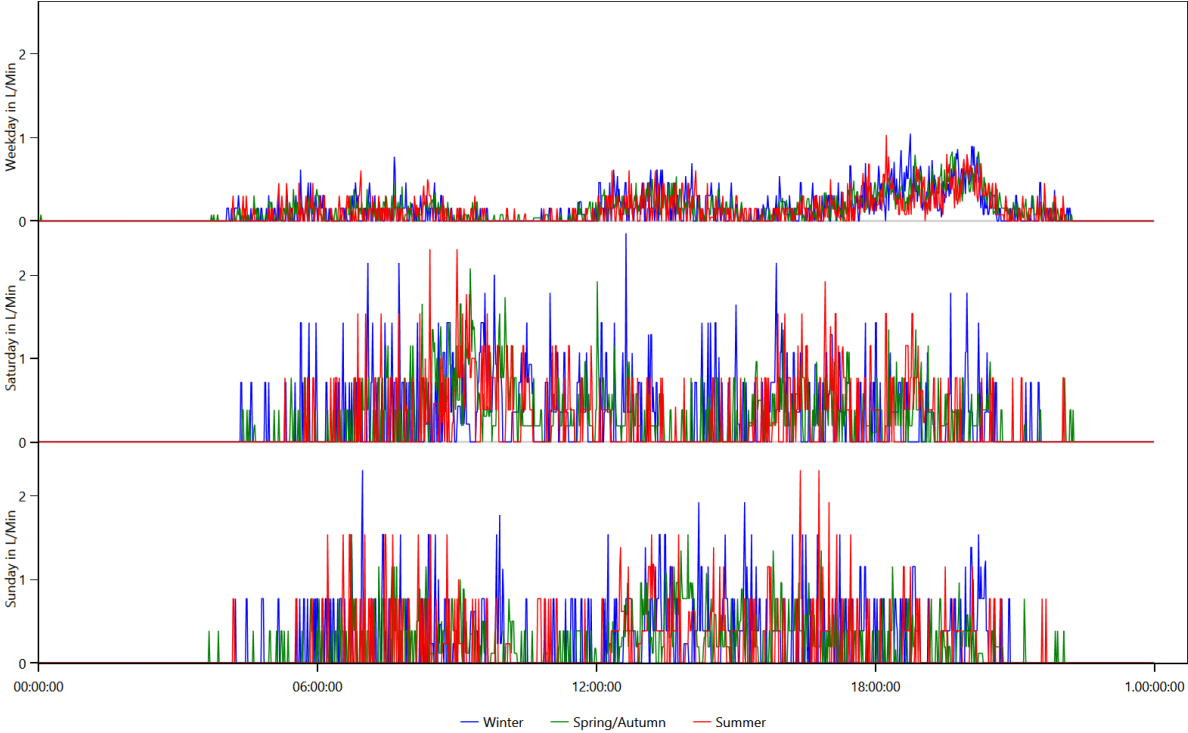


Energy use per load type during different seasons, split by weekday/saturday/sunday

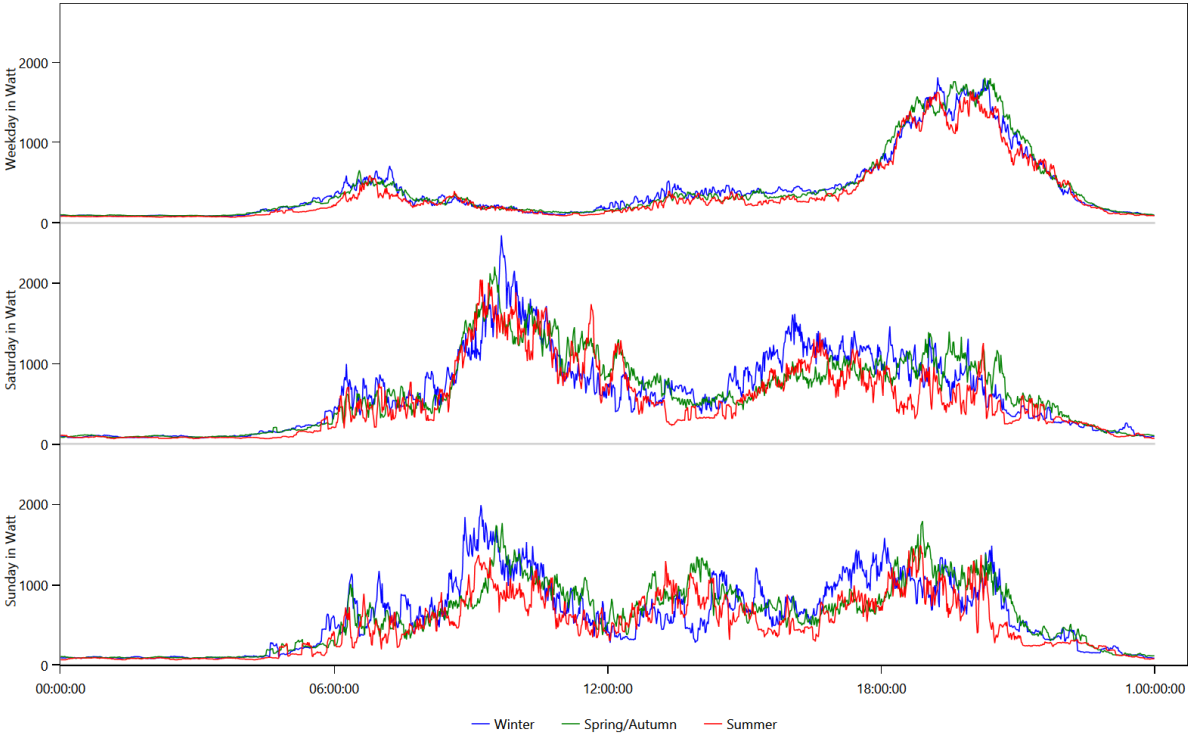
This is made from the files starting with: WeekdayProfiles

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

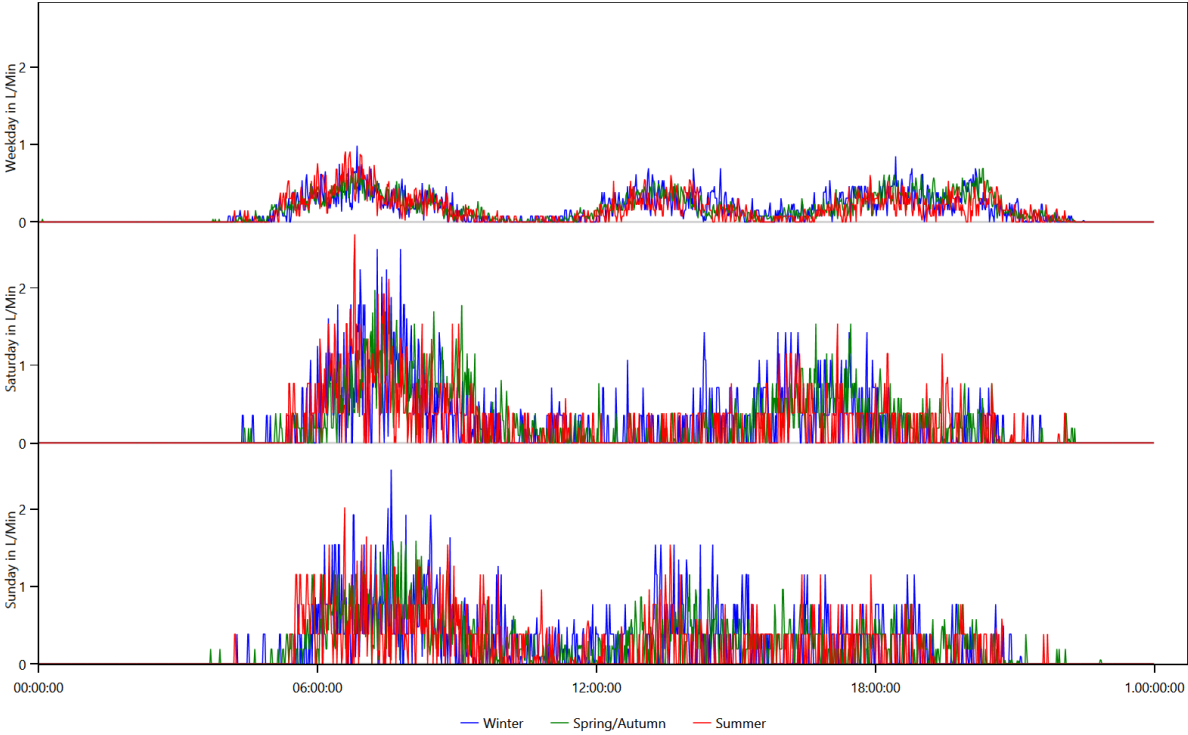
Cold Water



Electricity



Warm Water

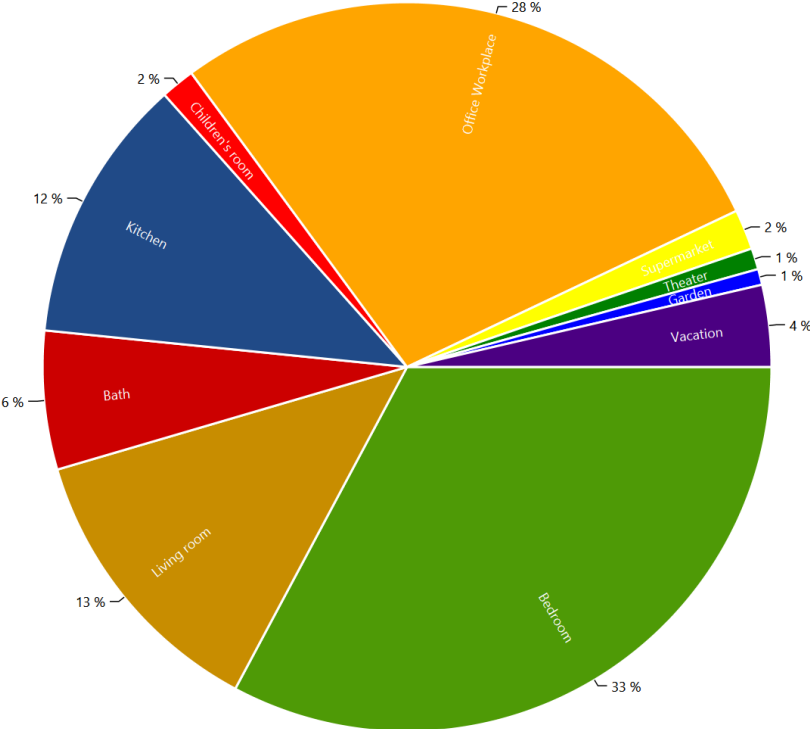


Location Distribution per Person

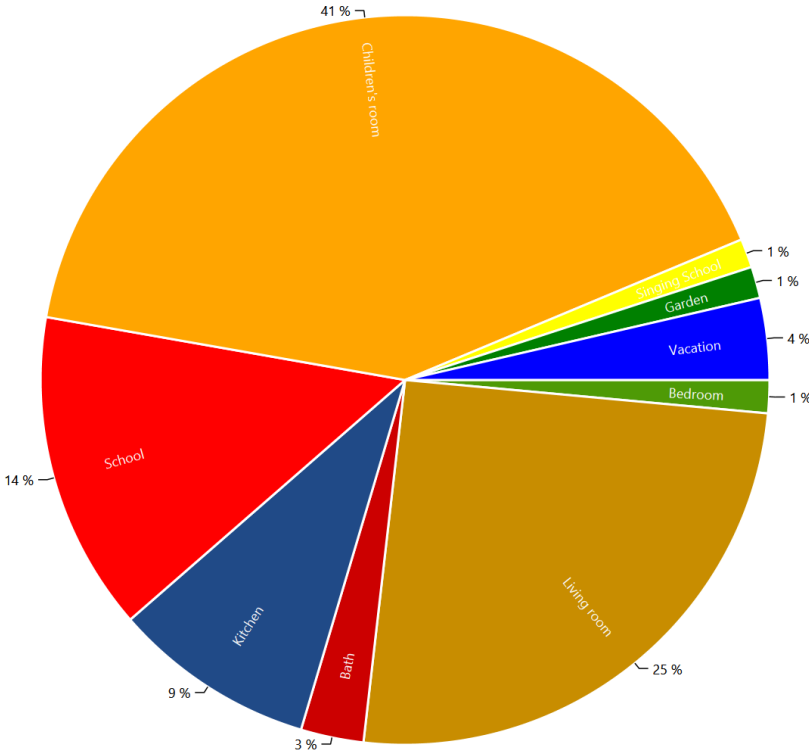
This is made from the files starting with: LocationStatistics

These charts show where the persons spend their time.

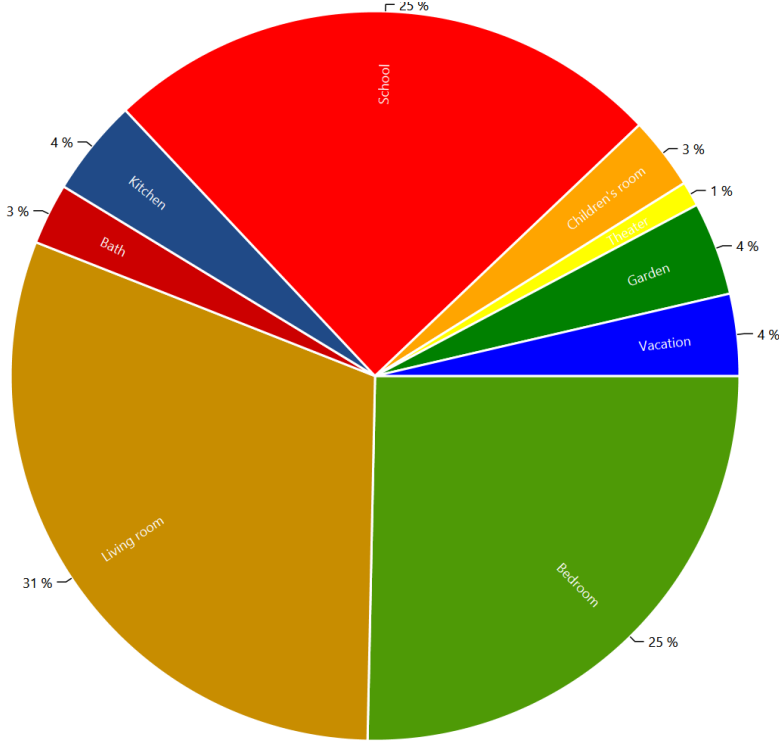
CHR05 Liz 2 (35 Female)



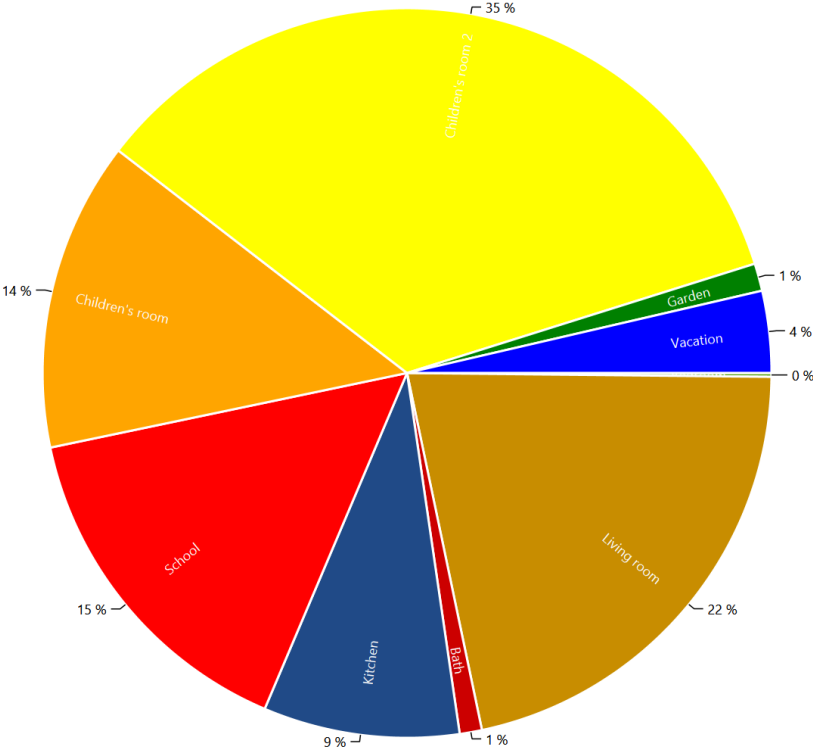
CHR05 Mark 2 (13 Male)



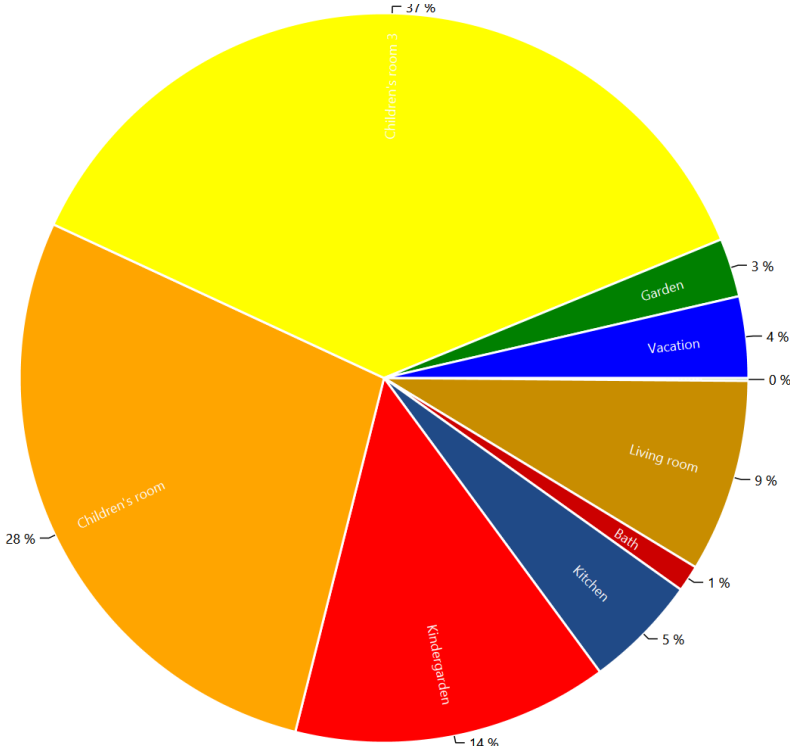
CHR05 Nate 2 (40 Male)



CHR05 Will 2 (6 Male)



CHR05 Zoe 2 (4 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

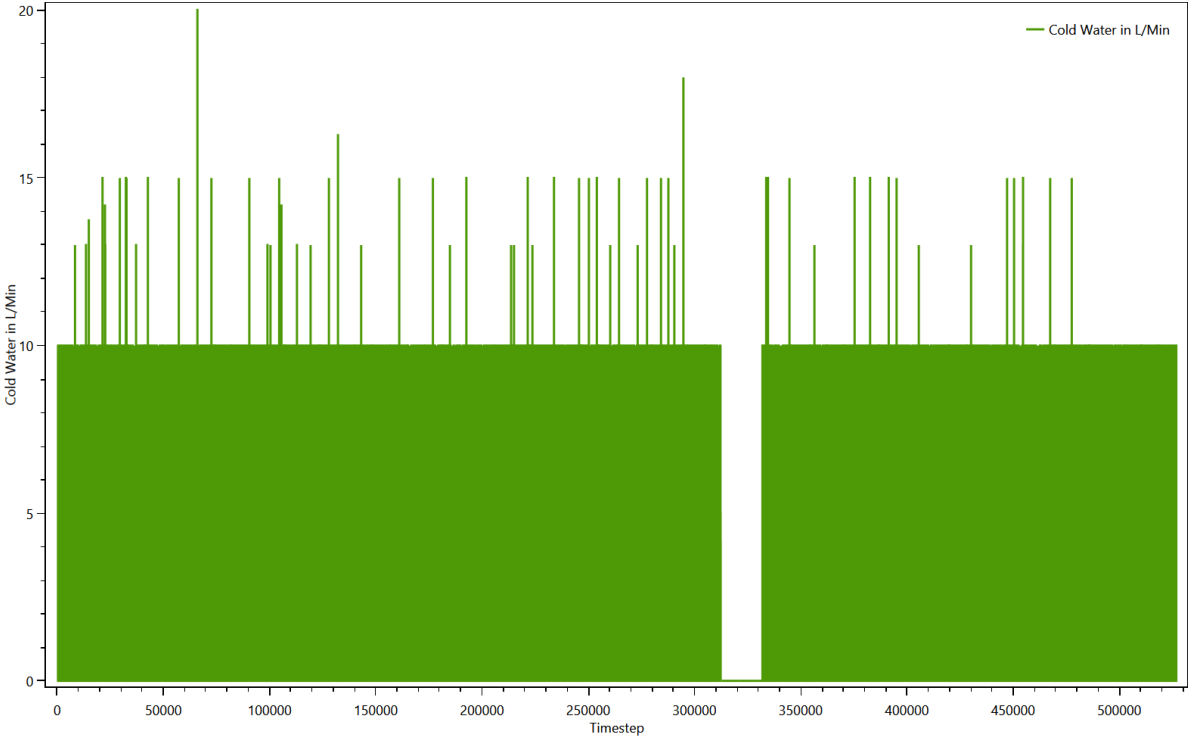
```
Time step;Calendertime;Person;Selected affordance;Affordance Category;Is Sick
0;01.01.2016 00:00;CHR05 Liz 2 (35/Female);sleep bed 02 (08 h);sleep;False;
0;01.01.2016 00:00;CHR05 Mark 2 (13/Male);sleep bed 03 (10 h) Child;sleep;True;
0;01.01.2016 00:00;CHR05 Nate 2 (40/Male);sleep bed 01 (06 h);sleep;False;
0;01.01.2016 00:00;CHR05 Will 2 (6/Male);sleep bed 04 (10 h) Child;sleep;False;
0;01.01.2016 00:00;CHR05 Zoe 2 (4/Female);sleep bed 05 (10 h) Child;sleep;False;
291;01.01.2016 04:51;CHR05 Nate 2 (40/Male);play Wii;Passive Entertainment (TV etc.);False;
367;01.01.2016 06:07;CHR05 Nate 2 (40/Male);get ready in the morning (men);hygiene;False;
378;01.01.2016 06:18;CHR05 Nate 2 (40/Male);eat small breakfast (25min) interrupting subaff, no
alarm;cooking;False;
390;01.01.2016 06:30;CHR05 Liz 2 (35/Female);go to the toilet;hygiene;False;
395;01.01.2016 06:35;CHR05 Liz 2 (35/Female);eat breakfast (1 h);cooking;False;
406;01.01.2016 06:46;CHR05 Mark 2 (13/Male);eat a cooked meal (interrupting) (eat breakfast (1
h));cooking;True;
406;01.01.2016 06:46;CHR05 Nate 2 (40/Male);take a shower (men);hygiene;False;
424;01.01.2016 07:04;CHR05 Nate 2 (40/Male);go to the toilet;hygiene;False;
429;01.01.2016 07:09;CHR05 Nate 2 (40/Male);use the computer (1.5 h);Active Entertainment (Computer,
Internet etc);False;
438;01.01.2016 07:18;CHR05 Will 2 (6/Male);go to primary school ;school;False;
463;01.01.2016 07:43;CHR05 Liz 2 (35/Female);play Wii;Passive Entertainment (TV etc.);False;
463;01.01.2016 07:43;CHR05 Mark 2 (13/Male);get ready in the morning (children);hygiene;False;
473;01.01.2016 07:53;CHR05 Mark 2 (13/Male);go to the toilet;hygiene;False;
479;01.01.2016 07:59;CHR05 Mark 2 (13/Male);take a shower (men);hygiene;False;
```

Sum Profiles

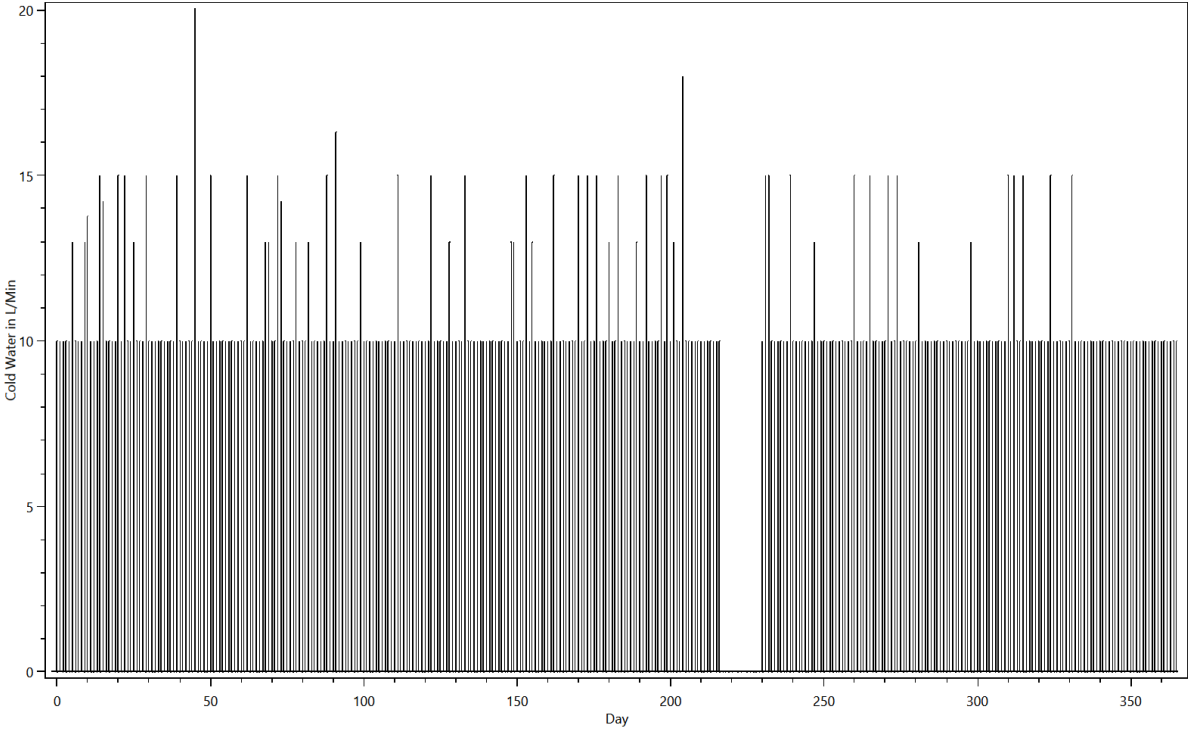
This is made from the files starting with: SumProfiles

This shows the energy use during the simulation.

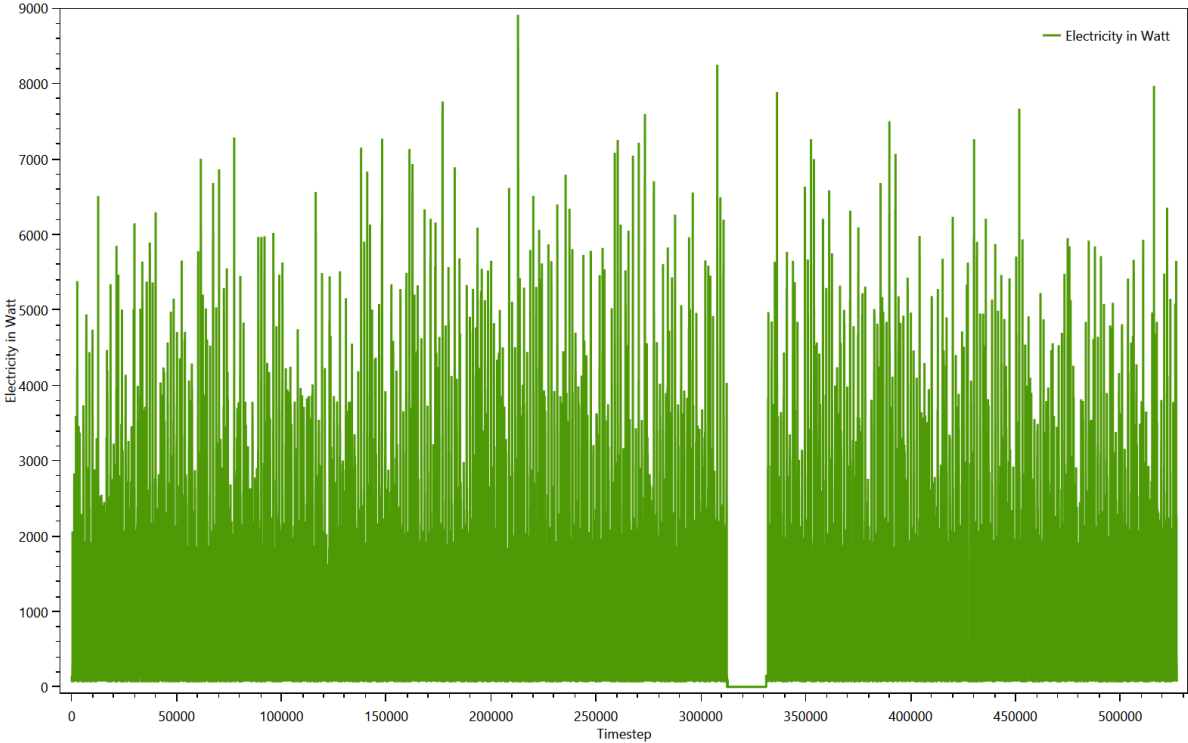
[Summed up curve for Cold Water from SumProfiles.Cold Water.png](#)



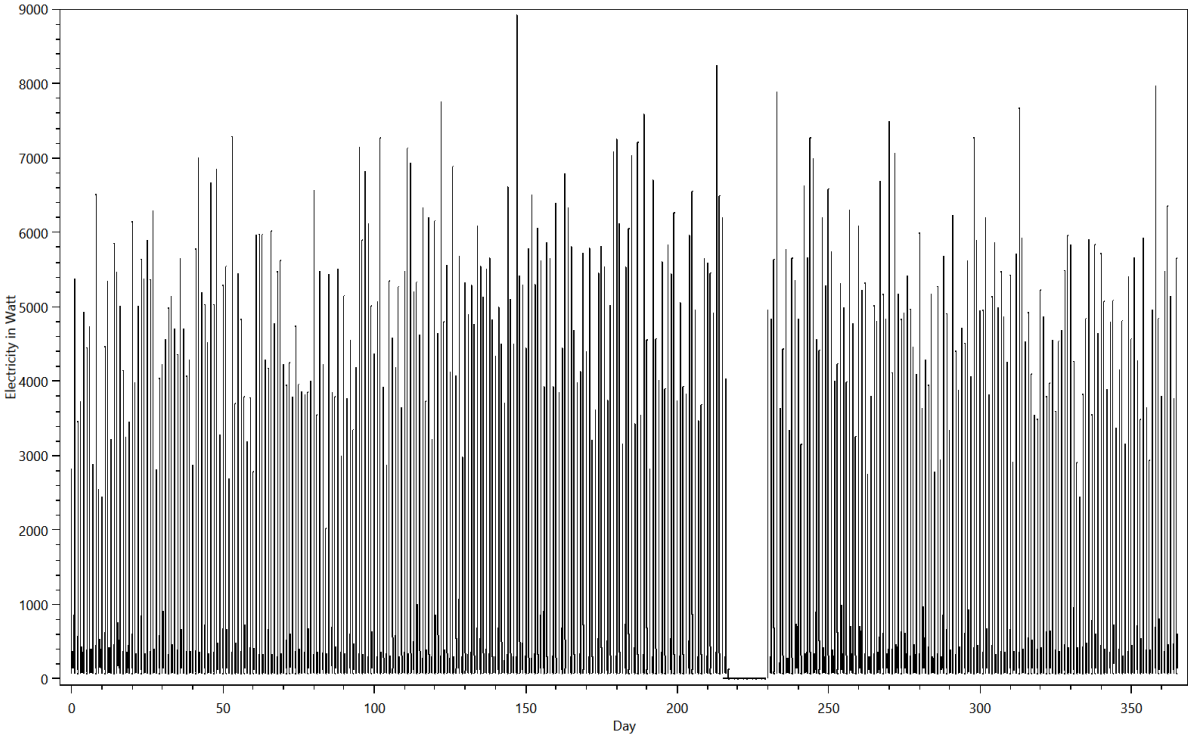
Summed up curve for Cold WaterMinMax from SumProfiles.Cold WaterMinMax.png



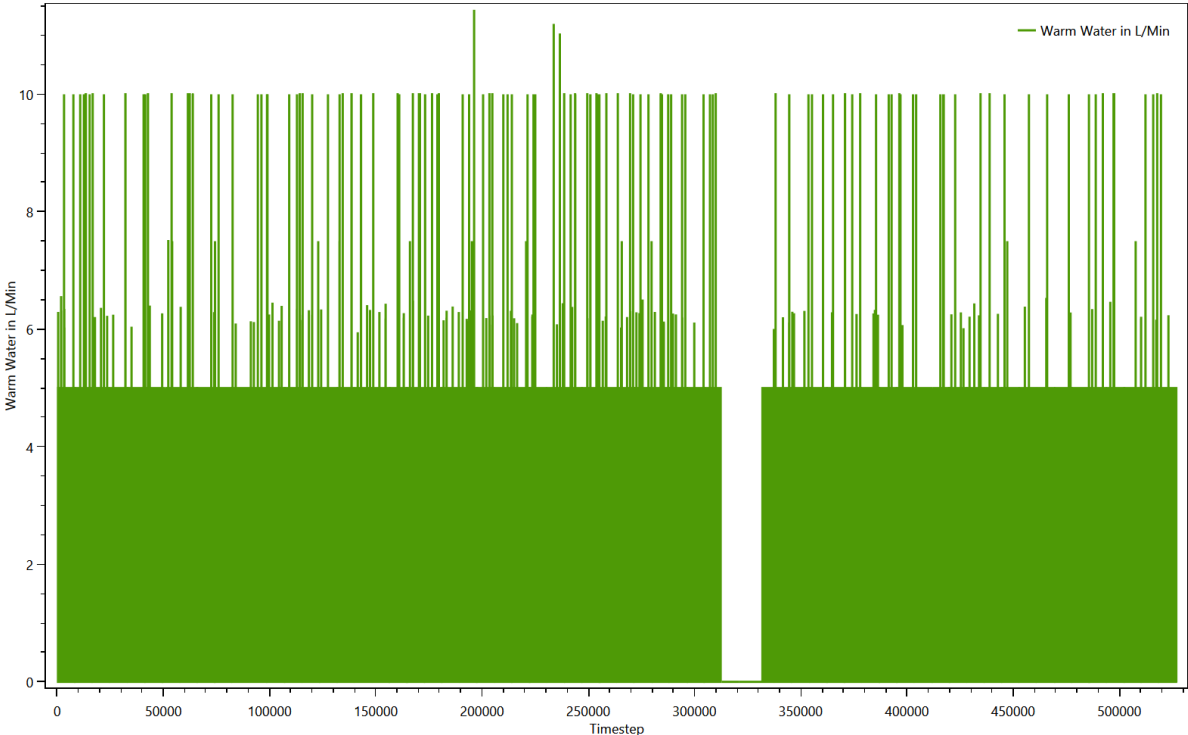
Summed up curve for Electricity from SumProfiles.Electricity.png



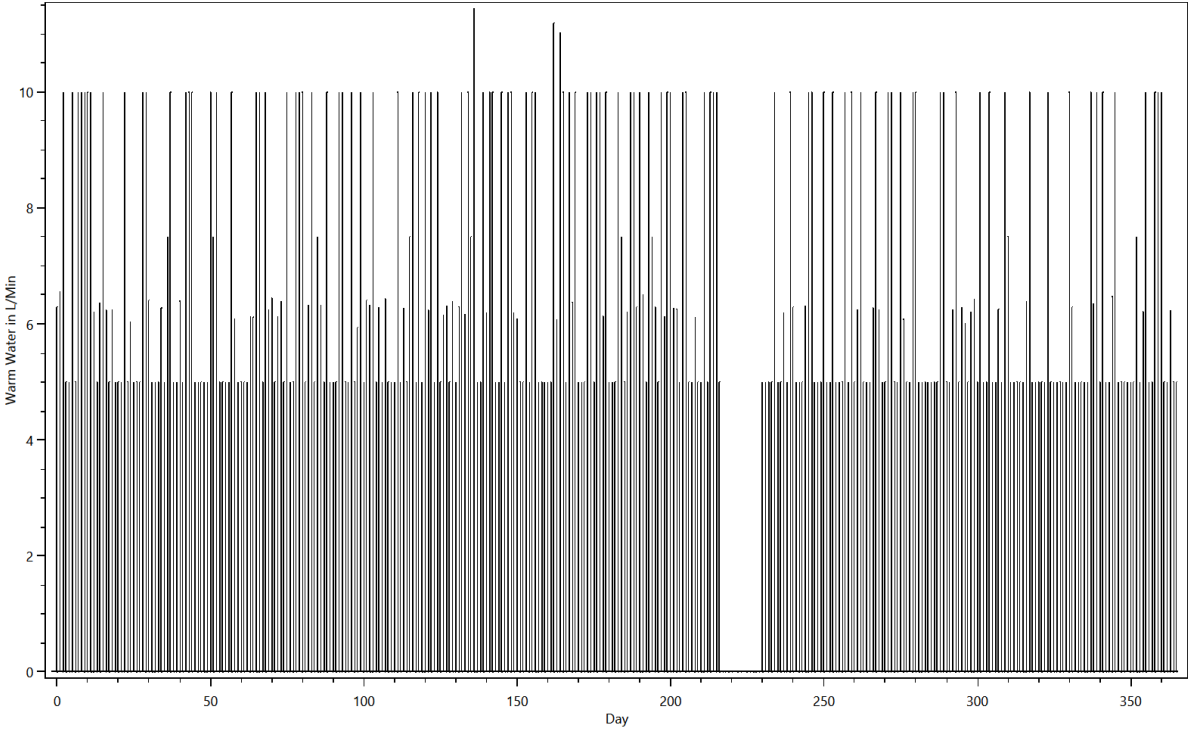
Summed up curve for ElectricityMinMax from SumProfiles.ElectricityMinMax..png



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.CHR05 Family, 3 children, both with work 0.txt

Device;Load Type;Profile;Number of Activations

AEG NM 2701 Premium;Electricity;01 h 0 min 100% [Synthetic];85

Atika LH 2500 G;Electricity;0 h 15 min 100% [Synthetic];127

Bathroom Light (200W);Electricity;Bath - light [Synthetic for Light Device];1614

Bathroom Mirror Light 10 W (LED);Electricity;Bath - light [Synthetic for Light Device];1614

Bathroom Sink 5 L/Min;Warm Water;0 h 01 min 100% [Synthetic];6225

Bathroom Sink 5 L/Min;Warm Water;0 h 01 min 50% [Synthetic];388

Bed 1;None;06 h 0 min 100% [Synthetic];356

Bed 2;None;08 h 0 min 100% [Synthetic];354

Bed 3 (Children);None;10 h 0 min 100% [Synthetic];356

Bed 4;None;10 h 0 min 100% [Synthetic];356

Bed 5;None;10 h 0 min 100% [Synthetic];350

Bed 5;None;12h 0 min 100% [Synthetic];6

Bedroom Light (200W);Electricity;Bedroom - light [Synthetic for Light Device];4

Board Games;None;01 h 0 min 100% [Synthetic];361

Book;None;01 h 0 min 100% [Synthetic];6

CD/DVD Player / Phillips CD 380;Electricity;01 h 30 min 100% [Synthetic];699

CD/DVD Player / Phillips CD 380;Electricity;02 h 0 min 100% [Synthetic];42

CD/DVD Player / Phillips CD 380;Electricity;Standby TV / Receiver 1 h 0 min 3% [Synthetic];8468

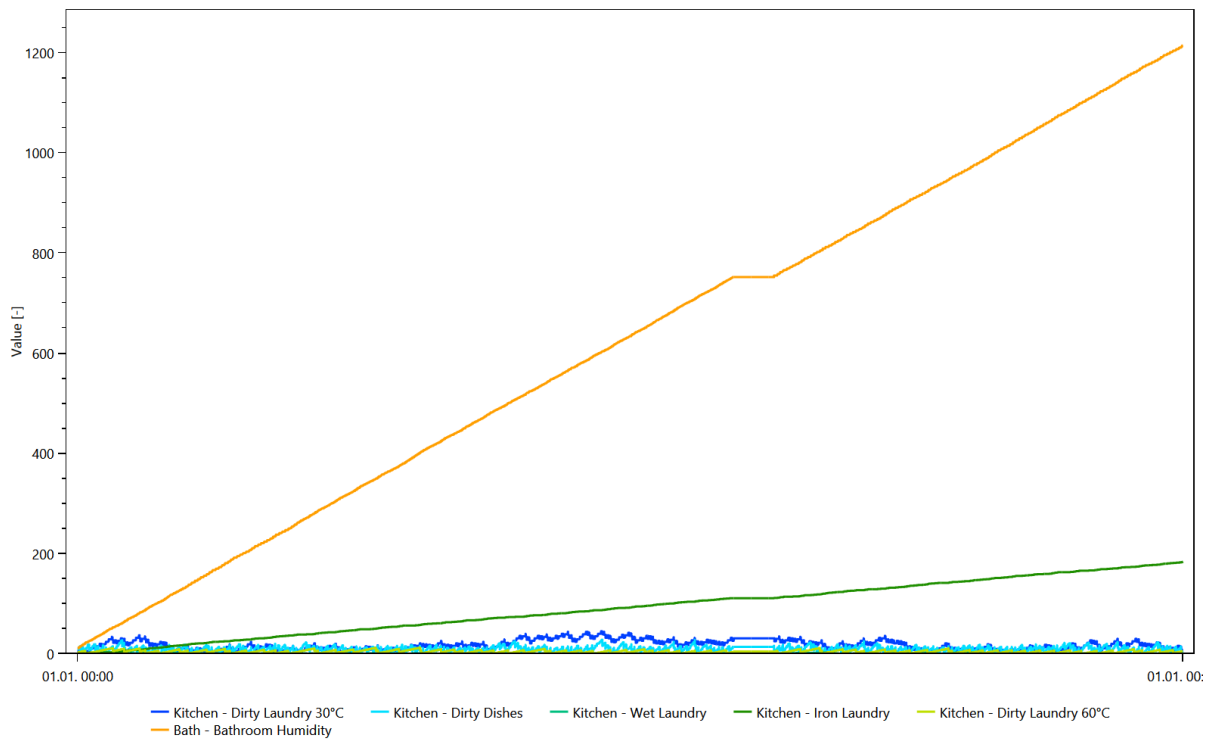
Canon CanoScan LIDE 110;Electricity;0 h 10 min 100% [Synthetic];132

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

