

Overview of the results of the household CHR15 Multigenerational Home: working couple, 2 children, 2 seniors 0

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

Energy Intensity: Random

Seed 4895

LoadProfileGenerator 5.8.0.16019

by Noah Pflugradt

<http://www.loadprofilegenerator.de>

Rendering date:16.12.2016 09:16:22

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Totals

Totals for each Loadtype

Load Type	Value	Unit
Cold Water	78273.22	L
Electricity	8179.47	kWh
Warm Water	209671.15	L

Totals for each Loadtype per Day

Load Type	Value	Unit
Cold Water	213.86	L
Electricity	22.35	kWh
Warm Water	572.87	L

Minimum and Maximum for each Loadtype

Household	Minimum	Maximum	Unit
Cold Water	0.00	14.00	L/Min
Electricity	0.50	13624.86	Watt
Warm Water	0.00	16.55	L/Min

Totals for each Loadtype per Person

Load Type	Value	Unit
Cold Water	13045.54	L
Electricity	1363.24	kWh

Warm Water	34945.19	L
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Totals for each Loadtype per Person per Day

Load Type	Value	Unit
Cold Water	35.64	L
Electricity	3.72	kWh
Warm Water	95.48	L

Persons

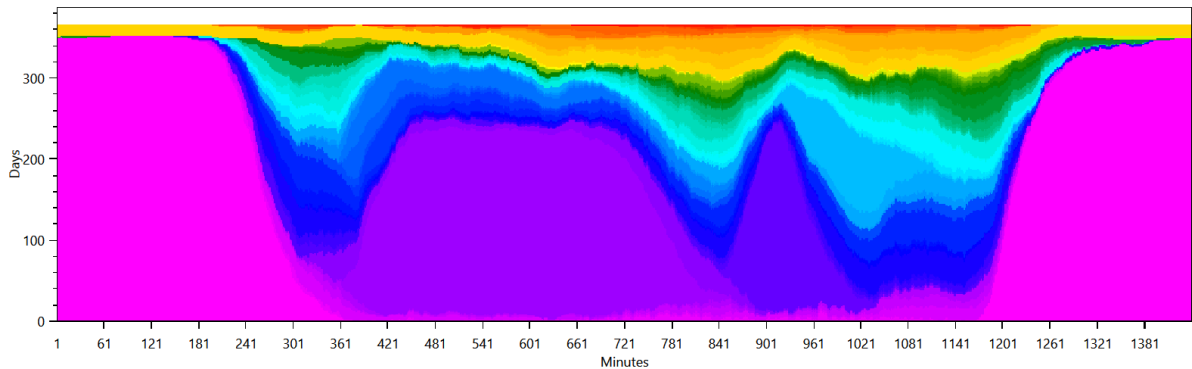
- HHO
 - CHR15 Abby (15/Female)(15/Female)
 - CHR15 Adam (4/Male)(4/Male)
 - CHR15 Eddie (70/Male)(70/Male)
 - CHR15 Myra (68/Female)(68/Female)
 - CHR15 Nick (40/Male)(40/Male)
 - CHR15 Rebekah (32/Female)(32/Female)

Activity Frequency Charts

This is made from the files starting with: ActivityFrequenciesPerMinute

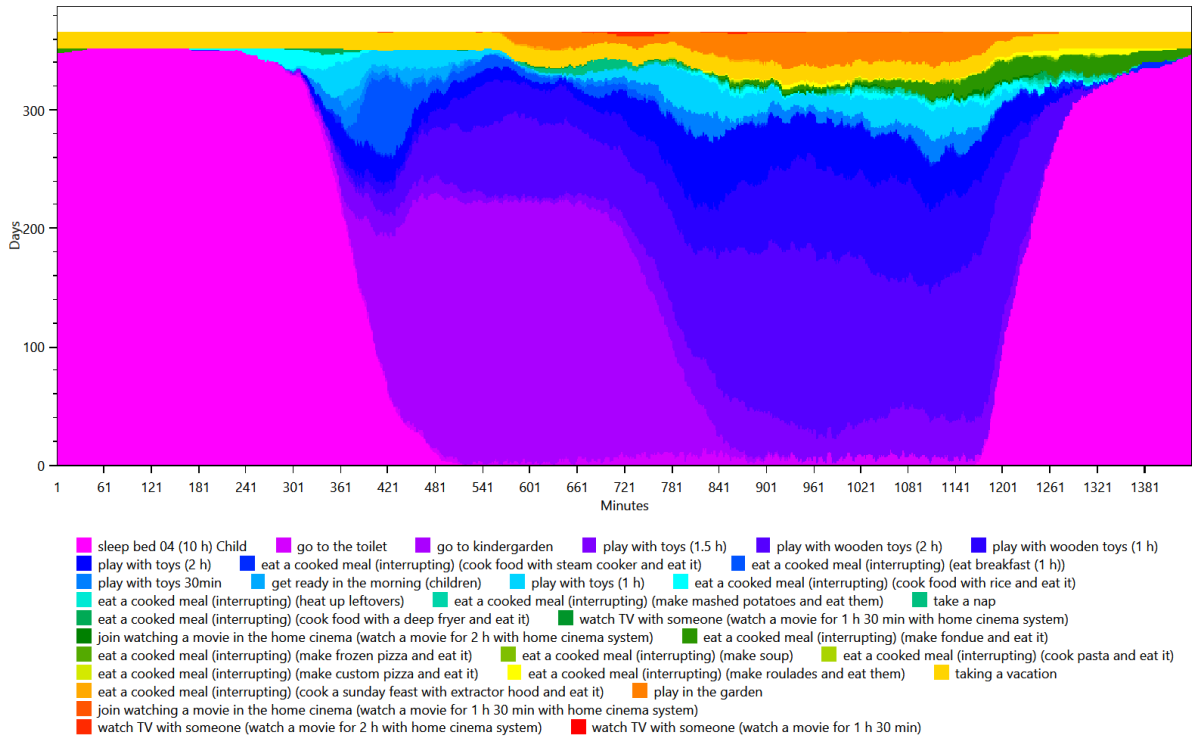
These charts show an ordered distribution of times of the activities of each person. This helps with judging quickly if a person is sleeping correctly and if they are going to work regularly.

HH0 - CHR15 Abby (15 Female)

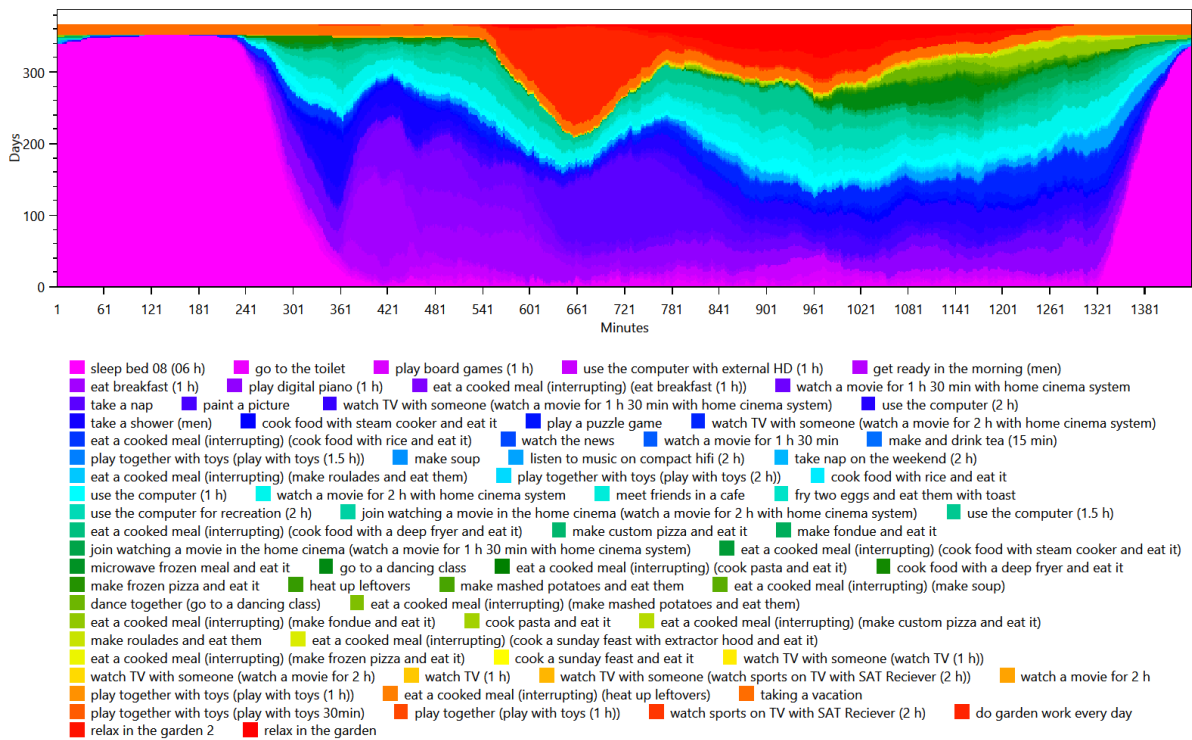


- sleep bed 03 (08 h) Child
- go to the toilet
- use the computer (2 h)
- paint a picture
- play a puzzle game
- go to grammer school
- take a shower without hair washing (women)
- make frozen pizza and eat it
- study at home
- exercise for 30 min on the treadmill
- play board games (1 h)
- eat a cooked meal (interrupting) (cook food with steam cooker and eat it)
- play digital piano (1 h)
- join watching a movie in the home cinema (watch a movie for 2 h with home cinema system)
- cook food with rice and eat it
- play Playstation
- eat a cooked meal (interrupting) (eat breakfast (1 h))
- use the computer for recreation (2 h)
- get ready in the morning (women)
- eat breakfast (1 h)
- take a shower with hair washing (women) (20 min hair drying)
- join watching a movie in the home cinema (watch a movie for 1 h 30 min with home cinema system)
- play Wii
- take nap on the weekend (2 h)
- eat a cooked meal (interrupting) (make frozen pizza and eat it)
- use the computer (1 h)
- watch a movie for 1 h 30 min with home cinema system
- watch TV with someone (watch a movie for 2 h with home cinema system)
- watch a movie for 2 h with home cinema system
- microwave frozen meal and eat it
- take a shower with hair washing (women) (5 min hair drying)
- make mashed potatoes and eat them
- eat a cooked meal (interrupting) (cook food with a deep fryer and eat it)
- use the computer with external HD (1 h)
- make fondue and eat it
- eat a cooked meal (interrupting) (cook pasta and eat it)
- heat up leftovers
- eat a cooked meal (interrupting) (make fondue and eat it)
- use the computer (1.5 h)
- eat a cooked meal (interrupting) (make custom pizza and eat it)
- listen to music on compact hifi (2 h)
- eat a cooked meal (interrupting) (cook food with rice and eat it)
- cook pasta and eat it
- make custom pizza and eat it
- eat a cooked meal (interrupting) (make mashed potatoes and eat them)
- eat a cooked meal (interrupting) (heat up leftovers)
- take a shower with electric air heater
- watch TV with someone (watch a movie for 1 h 30 min with home cinema system)
- eat a cooked meal (interrupting) (make soup)
- make soup
- join Wii gaming (play Wii)
- eat a cooked meal (interrupting) (make roulades and eat them)
- eat a cooked meal (interrupting) (cook a sunday feast and eat it)
- bake a cake
- eat a cooked meal (interrupting) (cook a sunday feast with extractor hood and eat it)
- taking a vacation
- play in the garden
- relax in the garden 2
- read a book on the couch all the time
- make and drink tea (15 min)
- take a nap
- read a book on the couch only 9:00 to 22:00
- read a book (1 h)
- watch sports on TV with SAT Reciever (2 h)
- read a newspaper for 30min
- read a magazine
- watch a movie for 1 h 30 min

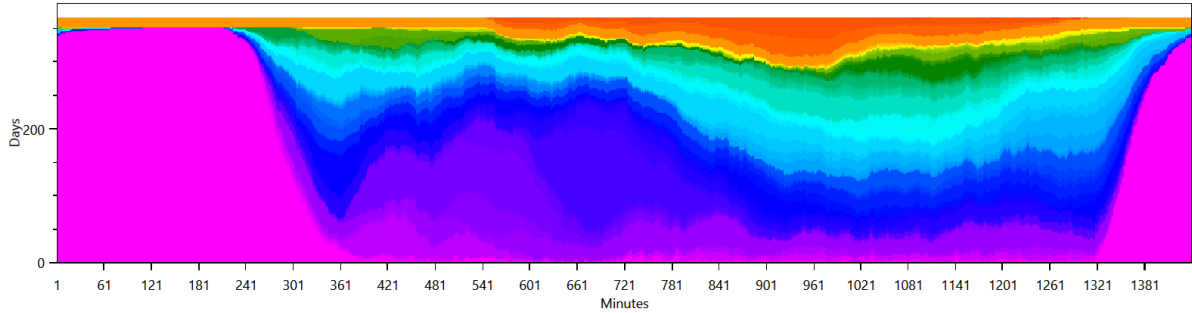
HH0 - CHR15 Adam (4 Male)



HH0 - CHR15 Eddie (70 Male)

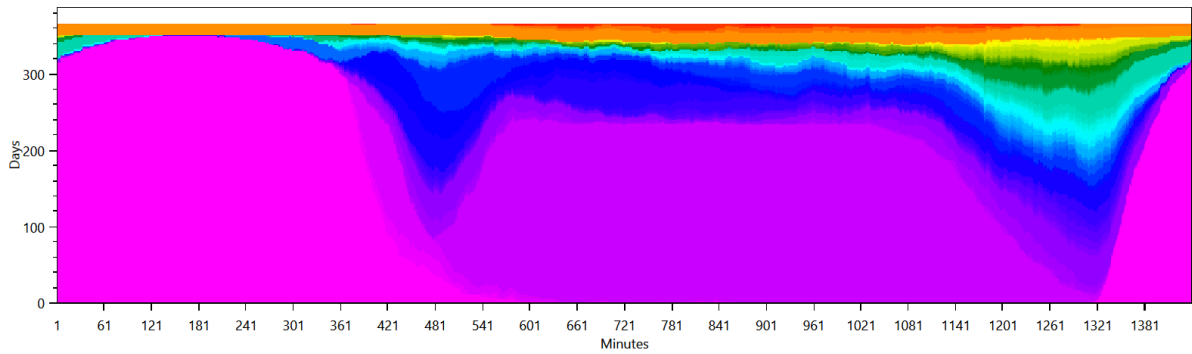


HH0 - CHR15 Myra (68 Female)



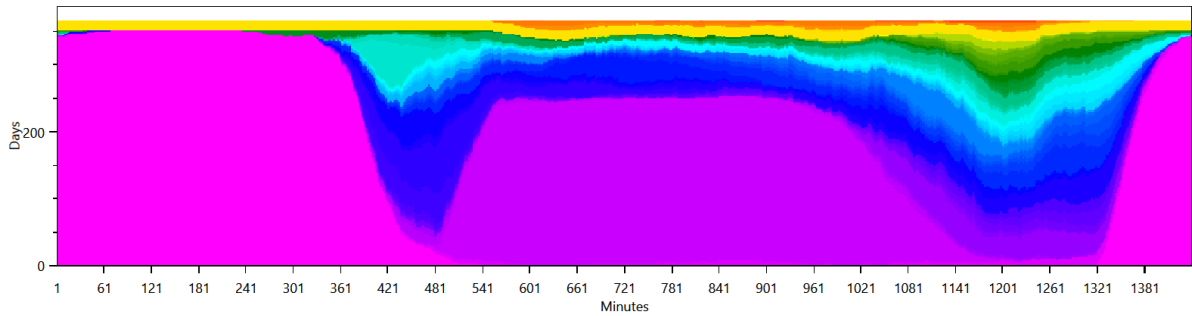
- sleep bed 09 (06 h)
- play board games (1 h)
- use the computer with external HD (1 h)
- bake bread
- watch TV with someone (watch a movie for 1 h 30 min with home cinema system)
- eat a cooked meal (interrupting) (cook food with rice and eat it)
- join watching a movie in the home cinema (watch a movie for 1 h 30 min with home cinema system)
- watch TV with someone (watch a movie for 2 h with home cinema system)
- bake a cake
- take a shower with electric air heater
- cook food with steam cooker and eat it
- cook food with rice and eat it
- eat a cooked meal (interrupting) (cook food with steam cooker and eat it)
- make soup
- take a shower with hair washing (women) (5 min hair drying)
- make frozen pizza and eat it
- watch a movie for 2 h
- play together with toys (play with toys (2 h))
- watch TV with someone (watch a movie for 1 h 30 min)
- eat a cooked meal (interrupting) (cook pasta and eat it)
- play together with toys (play with toys 30min)
- eat a cooked meal (interrupting) (heat up leftovers)
- go to the toilet
- fry two eggs and eat them with toast
- sew and repair clothes
- get ready in the morning (women)
- play digital piano (1 h)
- run the dishwasher (triggered)
- eat breakfast (1 h)
- do laundry at 30°C (by variable)
- take a nap
- run the dryer with wet laundry (by variable)
- watch a movie for 1 h 30 min with home cinema system
- take a shower without hair washing (women)
- paint a picture
- use the computer (2 h)
- make roulades and eat them
- take a shower with hair washing (women) (20 min hair drying)
- do laundry at 60°C (by variable)
- use the computer for recreation (2 h)
- play a puzzle game
- listen to music on compact hifi (2 h)
- watch a movie for 2 h with home cinema system
- go to a dancing class
- join watching a movie in the home cinema (watch a movie for 2 h with home cinema system)
- eat a cooked meal (interrupting) (cook food with a deep fryer and eat it)
- cook food with a deep fryer and eat it
- use the computer (1 h)
- microwave frozen meal and eat it
- make custom pizza and eat it
- cook a sunday feast with extractor hood and eat it
- dance together (go to a dancing class)
- eat a cooked meal (interrupting) (eat breakfast (1 h))
- heat up leftovers
- eat a cooked meal (interrupting) (make fondue and eat it)
- make fondue and eat it
- eat a cooked meal (interrupting) (make roulades and eat them)
- watch TV (1 h)
- watch the news
- play together with toys (play with toys (1 h))
- play together with toys (play with toys (1.5 h))
- watch a movie for 1 h 30 min
- take nap on the weekend (2 h)
- eat a cooked meal (interrupting) (make fondue and eat it)
- relax in the garden
- relax in the garden 2
- play together (play with toys (1 h))
- eat a cooked meal (interrupting) (make frozen pizza and eat it)
- eat a cooked meal (interrupting) (make soup)

HH0 - CHR15 Nick (40 Male)



- sleep bed 08 (08 h)
- go to the toilet
- use the computer for recreation (2 h)
- watch a movie for 1 h 30 min with home cinema system
- play digital piano (1 h)
- join watching a movie in the home cinema (watch a movie for 2 h with home cinema system)
- watch TV with someone (watch a movie for 2 h with home cinema system)
- eat a cooked meal (interrupting) (make custom pizza and eat it)
- eat a cooked meal (interrupting) (cook food with steam cooker and eat it)
- microwave frozen meal and eat it
- eat a cooked meal (interrupting) (cook food with a deep fryer and eat it)
- use the computer (1 h)
- read a book on the couch all the time
- watch TV (1 h)
- make mashed potatoes and eat them
- eat a cooked meal (interrupting) (make frozen pizza and eat it)
- eat a cooked meal (interrupting) (cook pasta and eat it)
- watch sports on TV with SAT Receiver (2 h)
- eat a cooked meal (interrupting) (cook a sunday feast with extractor hood and eat it)
- get ready in the morning (men)
- take a shower (men)
- watch a movie for 2 h with home cinema system
- exercise for 30 min on the treadmill
- play Playstation
- take a nap
- play board games (1 h)
- watch a movie for 1 h 30 min with home cinema system
- eat breakfast (1 h)
- paint a picture
- go shopping for food in the supermarket (1.5 h)
- play Wii gaming (play Wii)
- play a puzzle game
- eat a cooked meal (interrupting) (cook food with rice and eat it)
- use the computer with external HD (1 h)
- use the computer (2 h)
- cook food with a deep fryer and eat it
- cook food with rice and eat it
- cook food with steam cooker and eat it
- use the computer (1.5 h)
- listen to music on compact hifi (2 h)
- go to a bar (4 h)
- join watching a movie in the home cinema (watch a movie for 1 h 30 min with home cinema system)
- fry two eggs and eat them with toast
- watch TV with someone (watch a movie for 1 h 30 min with home cinema system)
- cook pasta and eat it
- eat a cooked meal (interrupting) (make fondue and eat it)
- watch the news
- make custom pizza and eat it
- eat a cooked meal (interrupting) (make soup)
- make soup
- read a book on the couch only 9:00 to 22:00
- watch a movie for 2 h
- read a book (1 h)
- make and drink tea (15 min)
- heat up leftovers
- make fondue and eat it
- watch a movie for 1 h 30 min
- make frozen pizza and eat it
- watch TV with someone (watch a movie for 1 h 30 min)
- relax in the garden 2
- bake a cake
- eat a cooked meal (interrupting) (heat up leftovers)
- relax in the garden
- read a newspaper for 30min
- read a magazine

HH0 - CHR15 Rebekah (32 Female)



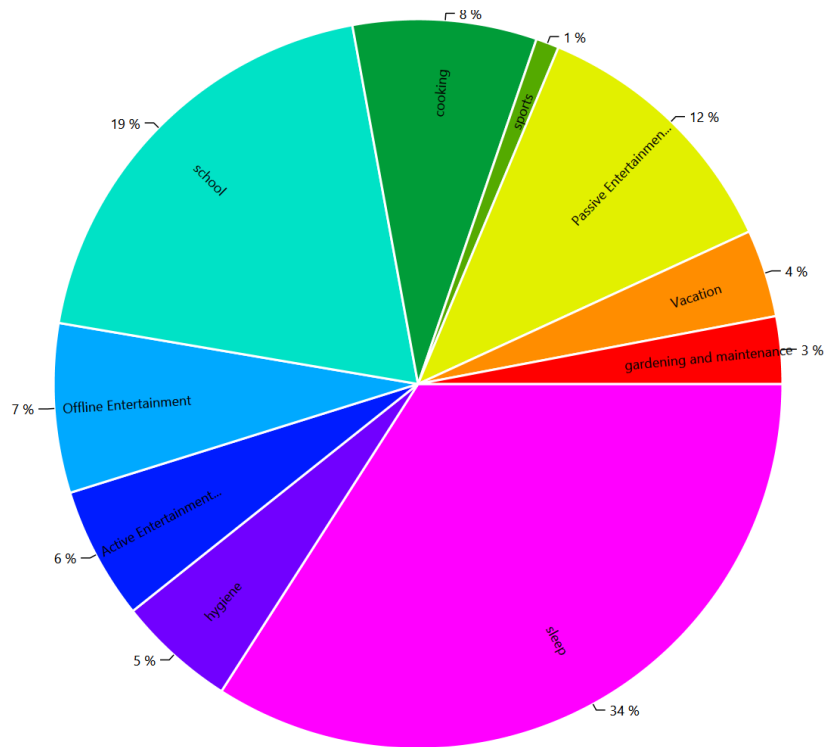
- sleep bed 02 (08 h)
- fry two eggs and eat them with toast
- use the computer for recreation (2 h)
- work as teacher
- take a shower with hair washing (women) (20 min hair drying)
- go to the toilet
- take singing lessons
- make custom pizza and eat it
- play board games (1 h)
- sew and repair clothes
- exercise for 30 min on the treadmill
- get ready in the morning (women)
- eat breakfast (1 h)
- play digital piano (1 h)
- take a shower without hair washing (women)
- use the computer with external HD (1 h)
- take a nap
- play Playstation
- watch a movie for 2 h with home cinema system
- paint a picture
- play Wii
- play a puzzle game
- clean the bath
- make frozen pizza and eat it
- watch TV with someone (watch a movie for 1 h 30 min with home cinema system)
- take a shower with electric air heater
- microwave frozen meal and eat it
- use the computer (1.5 h)
- join watching a movie in the home cinema (watch a movie for 2 h with home cinema system)
- use the computer (2 h)
- heat up leftovers
- cook food with steam cooker and eat it
- eat a cooked meal (interrupting) (eat breakfast (1 h))
- take a shower with hair washing (women) (5 min hair drying)
- make soup
- join watching a movie in the home cinema (watch a movie for 1 h 30 min with home cinema system)
- listen to music on compact hifi (2 h)
- join Wii gaming (play Wii)
- eat a cooked meal (interrupting) (cook food with steam cooker and eat it)
- cook a sunday feast with extractor hood and eat it
- watch a movie for 1 h 30 min with home cinema system
- cook food with a deep fryer and eat it
- eat a cooked meal (interrupting) (cook food with rice and eat it)
- watch TV with someone (watch a movie for 2 h with home cinema system)
- use the computer (1 h)
- eat a cooked meal (interrupting) (cook food with a deep fryer and eat it)
- cook pasta and eat it
- make fondue and eat it
- cook food with rice and eat it
- make roulades and eat them
- eat a cooked meal (interrupting) (make mashed potatoes and eat them)
- make mashed potatoes and eat them
- eat a cooked meal (interrupting) (make frozen pizza and eat it)
- eat a cooked meal (interrupting) (cook pasta and eat it)
- eat a cooked meal (interrupting) (make fondue and eat it)
- eat a cooked meal (interrupting) (make soup)
- make and drink tea (15 min)
- watch a movie for 1 h 30 min
- play together with toys (play with toys (1.5 h))
- watch TV with someone (watch sports on TV with SAT Reciever (2 h))
- taking a vacation
- take nap on the weekend (2 h)
- watch TV (1 h)
- watch sports on TV with SAT Reciever (2 h)
- eat a cooked meal (interrupting) (heat up leftovers)
- relax in the garden
- relax in the garden 2
- eat a cooked meal (interrupting) (cook a sunday feast with extractor hood and eat it)
- eat a cooked meal (interrupting) (make roulades and eat them)
- play together with toys (play with toys 30min)
- play together with toys (play with toys (1 h))
- play together with toys (play with toys (2 h))
- watch a movie for 2 h
- bake a cake

Activity Distribution per Person

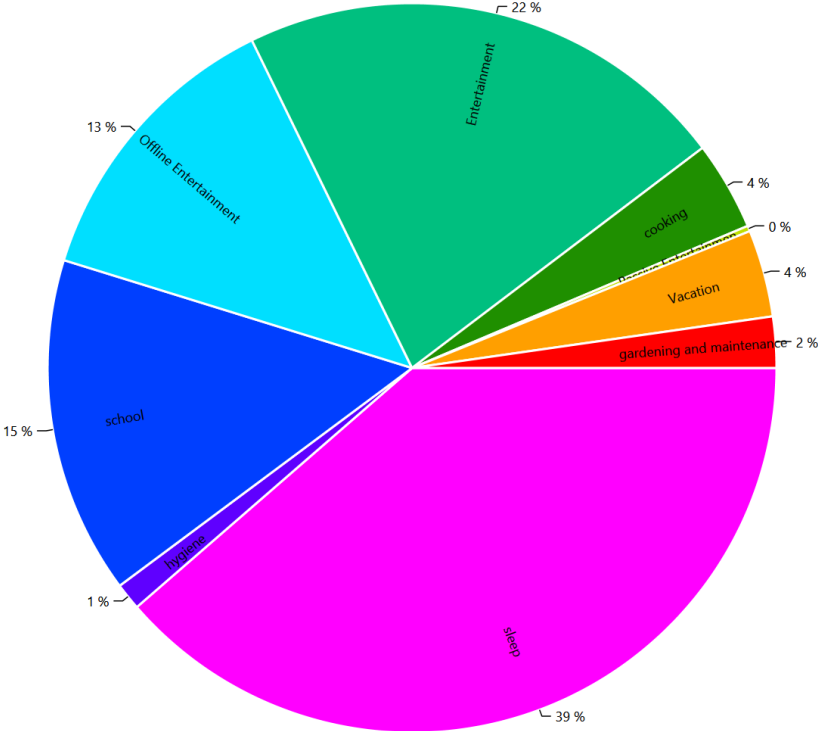
This is made from the files starting with: ActivityPercentage

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

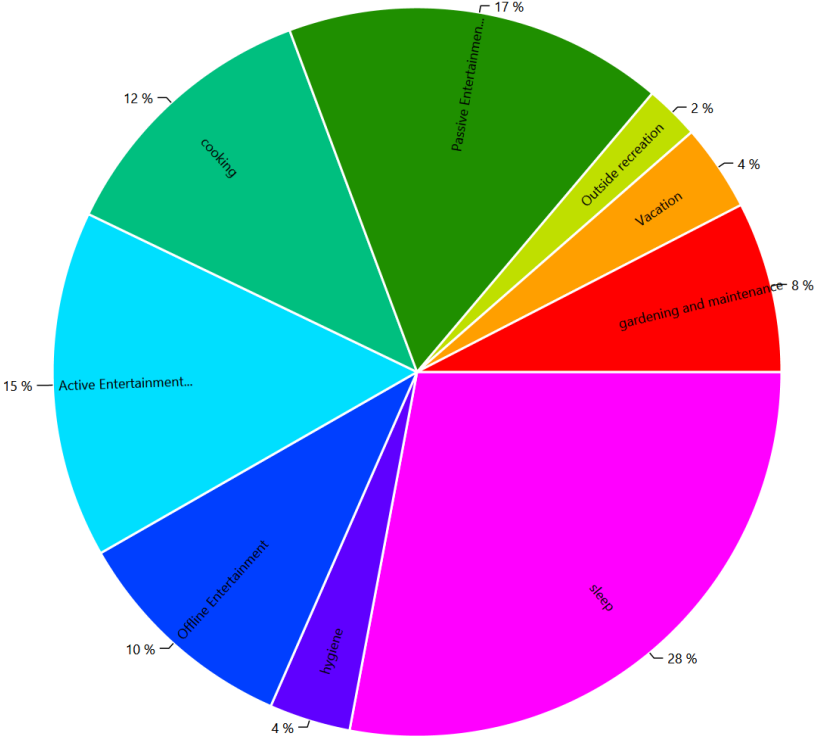
HH0 - CHR15 Abby (15 Female)



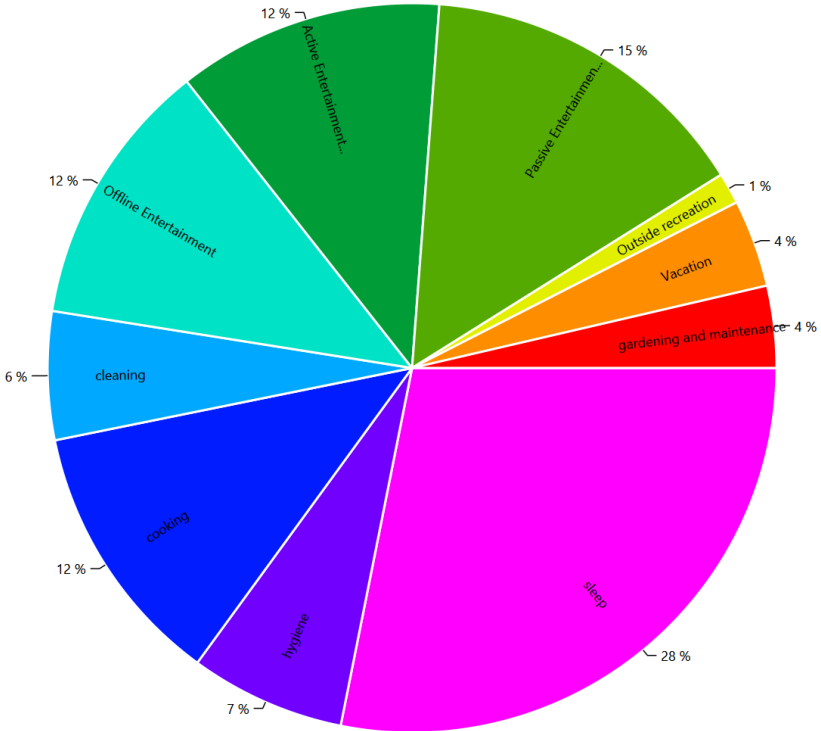
HH0 - CHR15 Adam (4 Male)



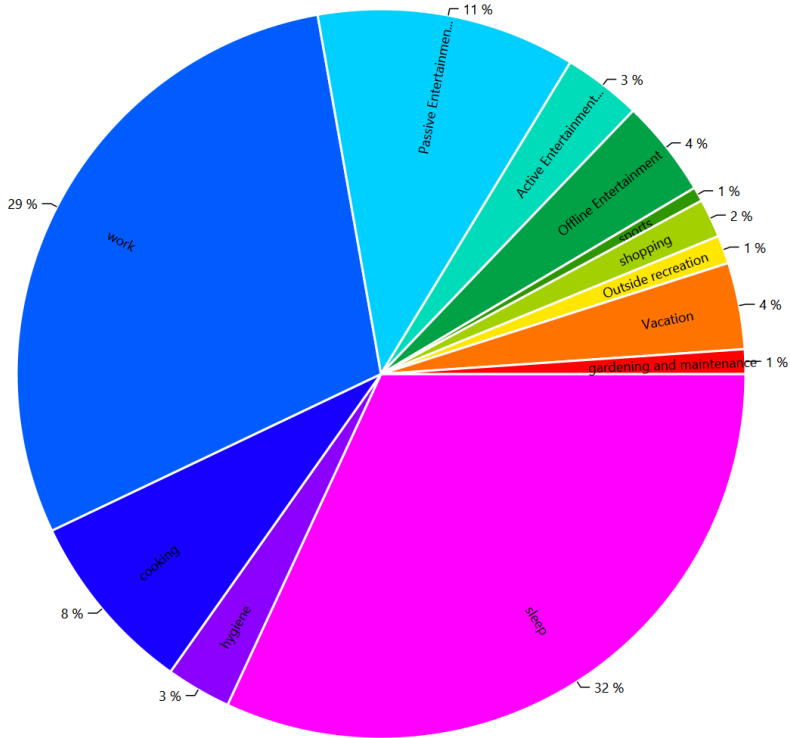
HH0 - CHR15 Eddie (70 Male)



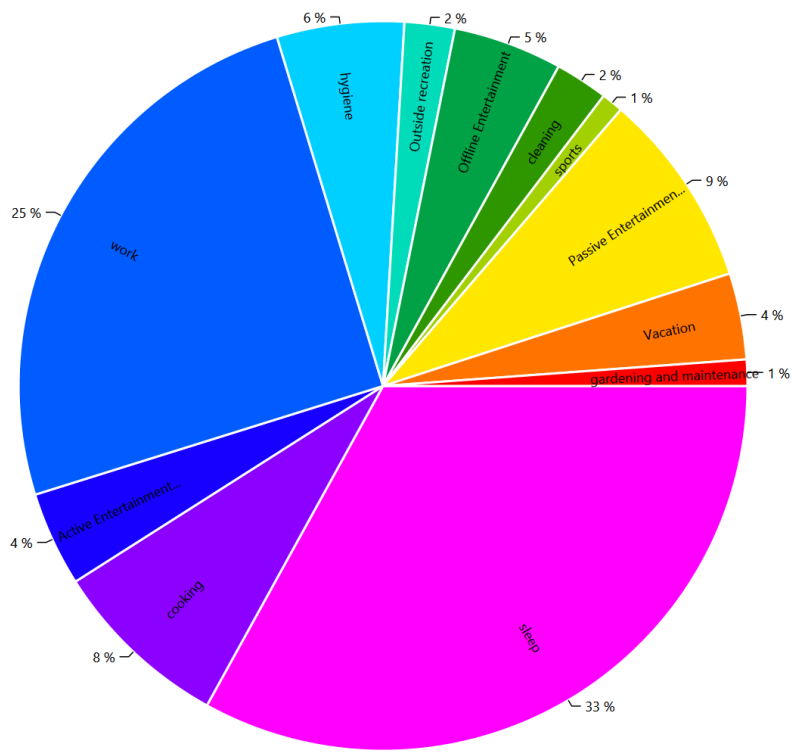
HH0 - CHR15 Myra (68 Female)



HH0 - CHR15 Nick (40 Male)



HH0 - CHR15 Rebekah (32 Female)

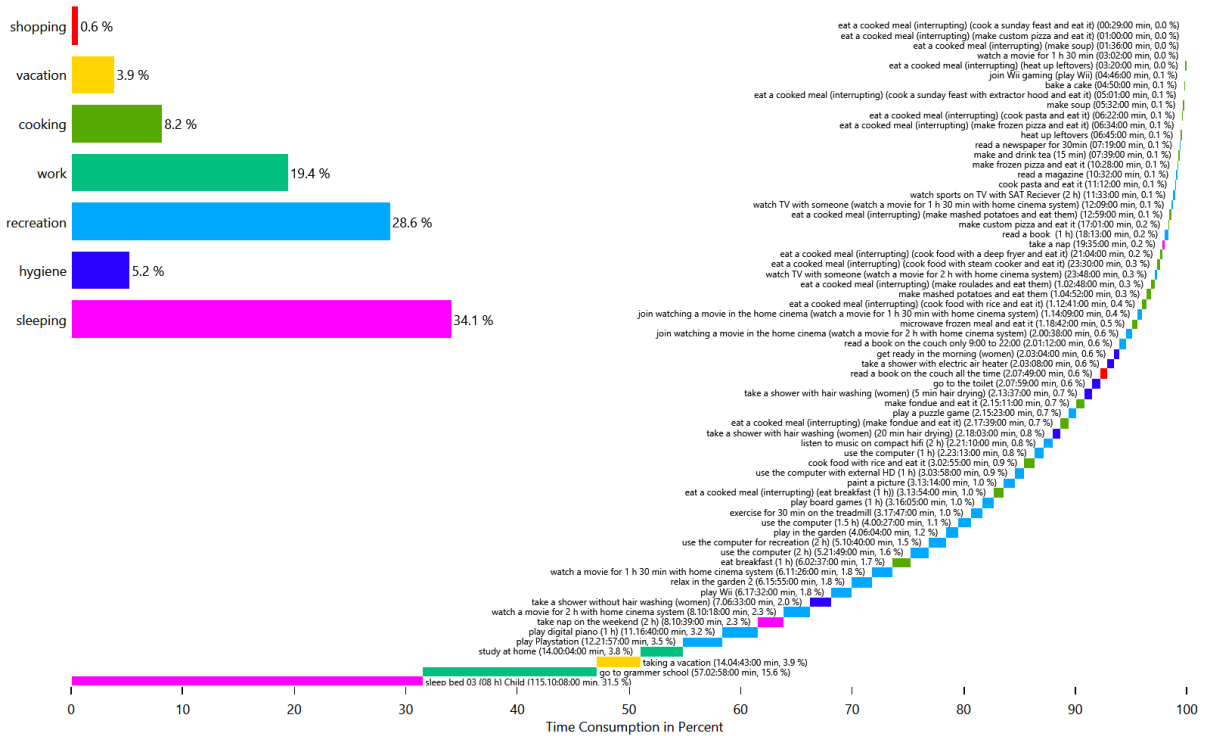


Time Use per Person per Affordance Per Person

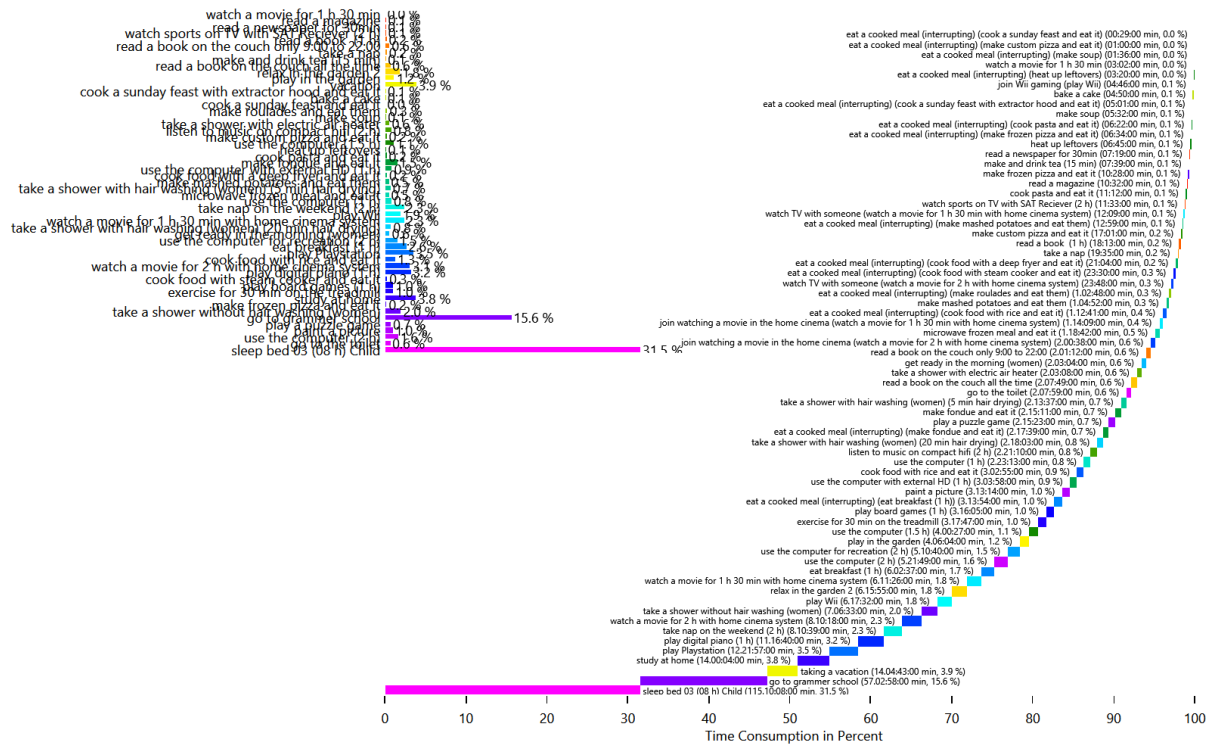
This is made from the files starting with: AffordanceTimeUse

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.

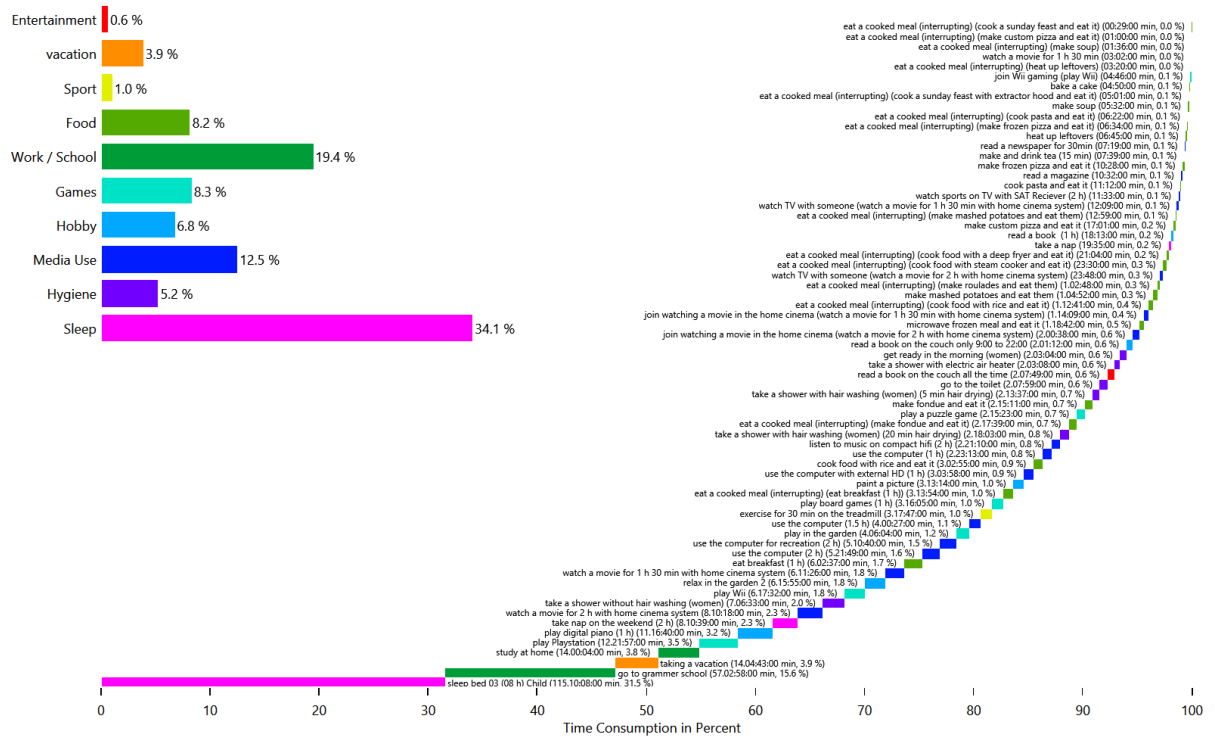
HH0 - CHR15 Abby (15 Female)



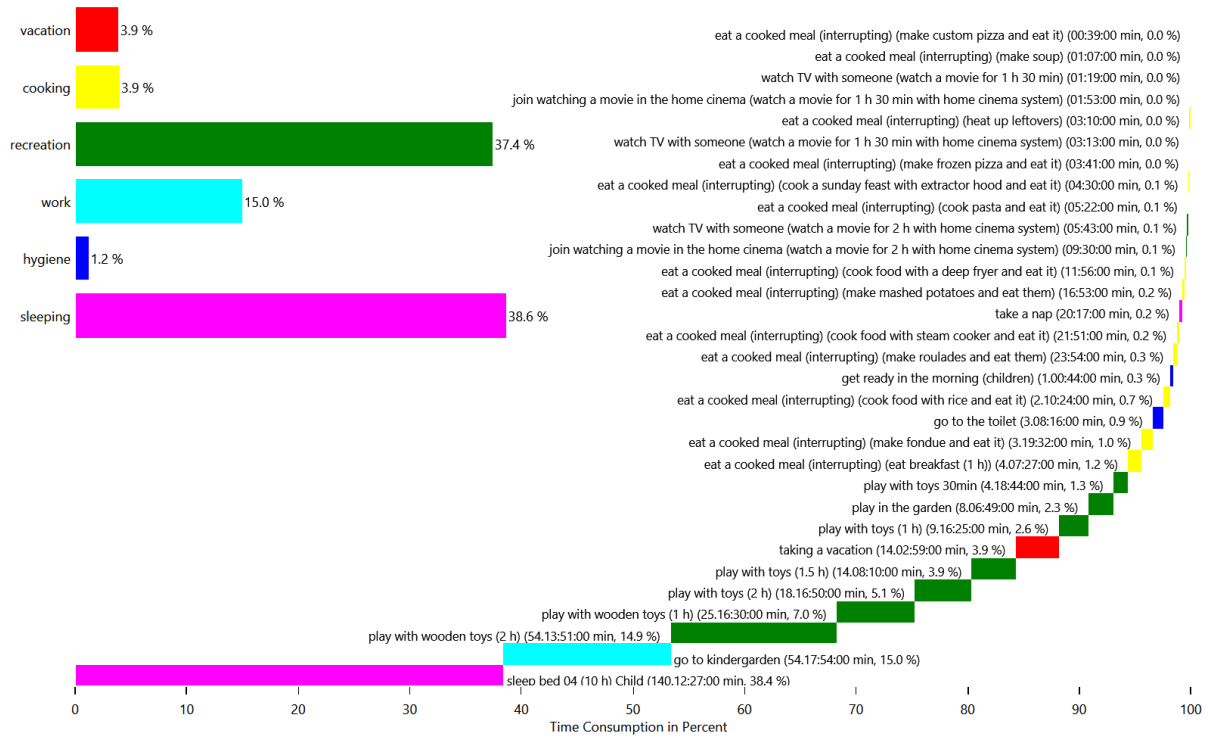
HH0 - CHR15 Abby (15 Female)



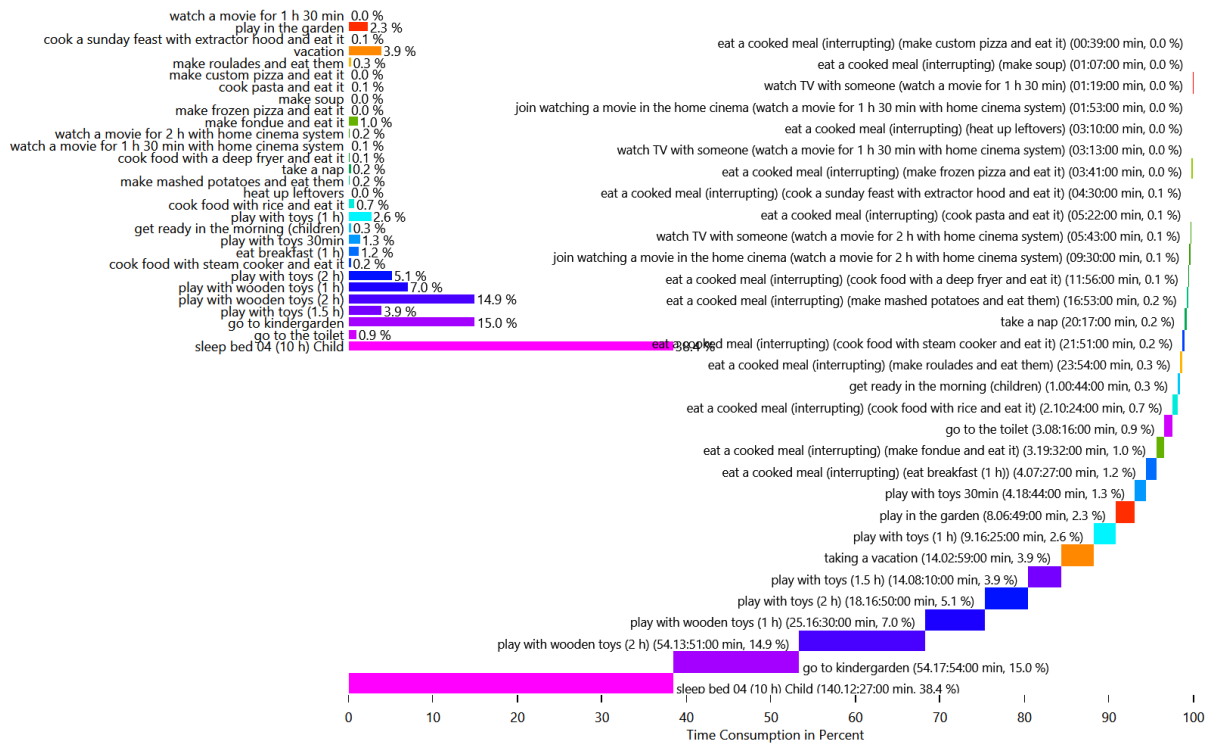
HH0 - CHR15 Abby (15 Female)



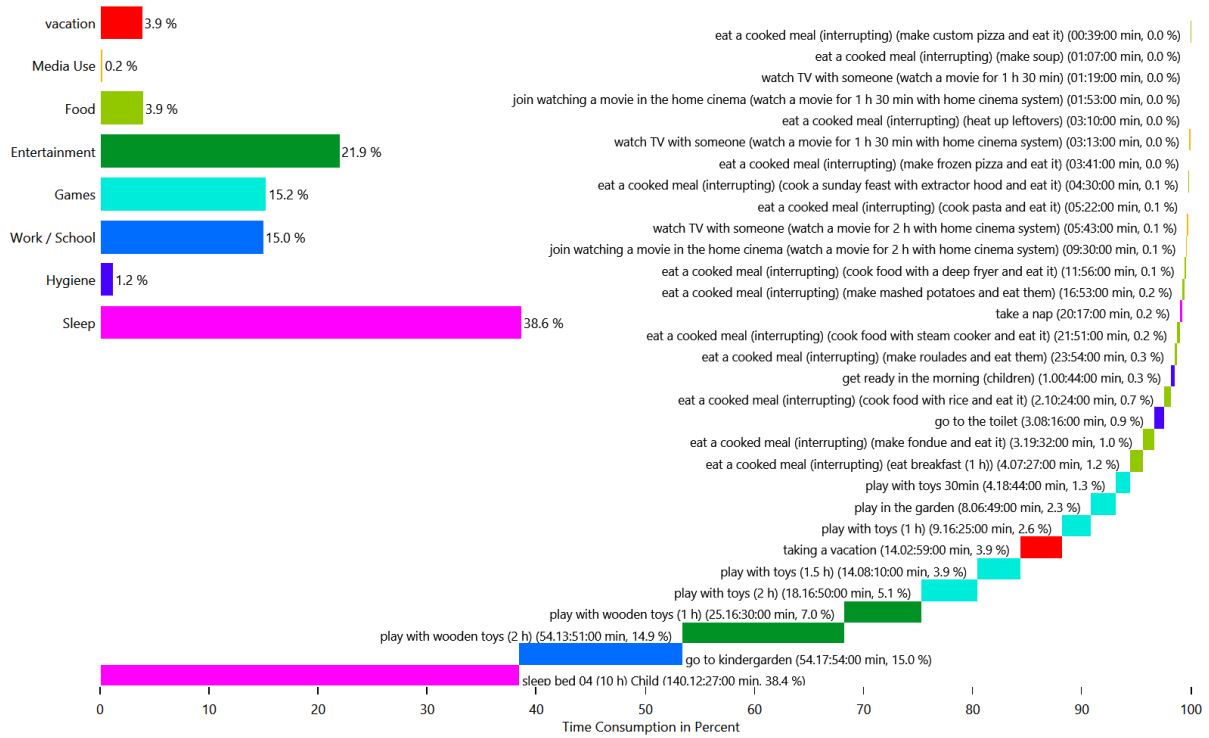
HH0 - CHR15 Adam (4 Male)



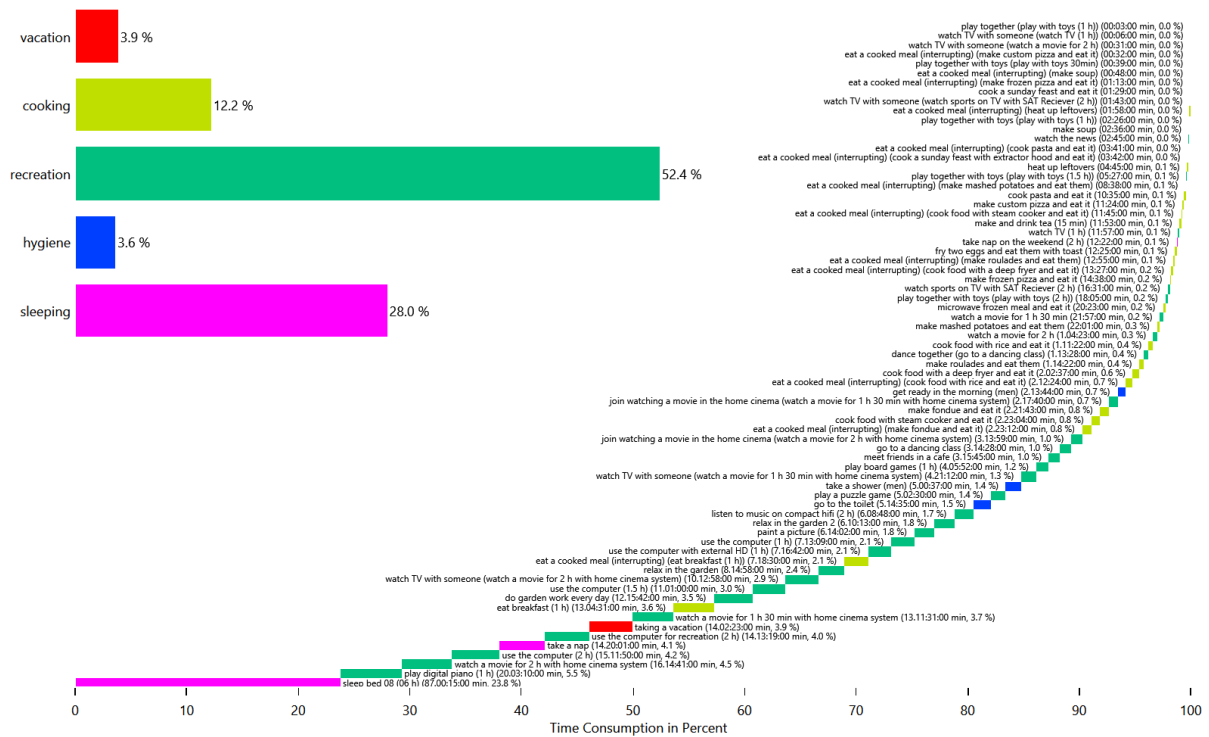
HH0 - CHR15 Adam (4 Male)



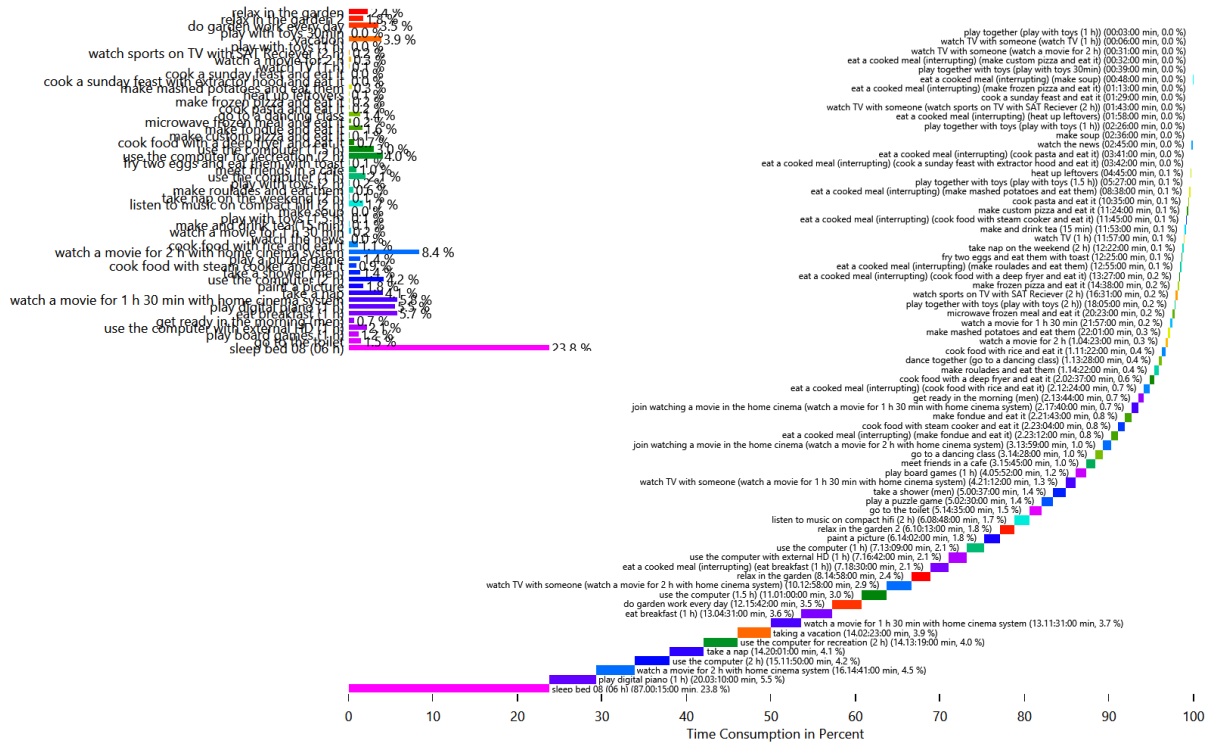
HH0 - CHR15 Adam (4 Male)



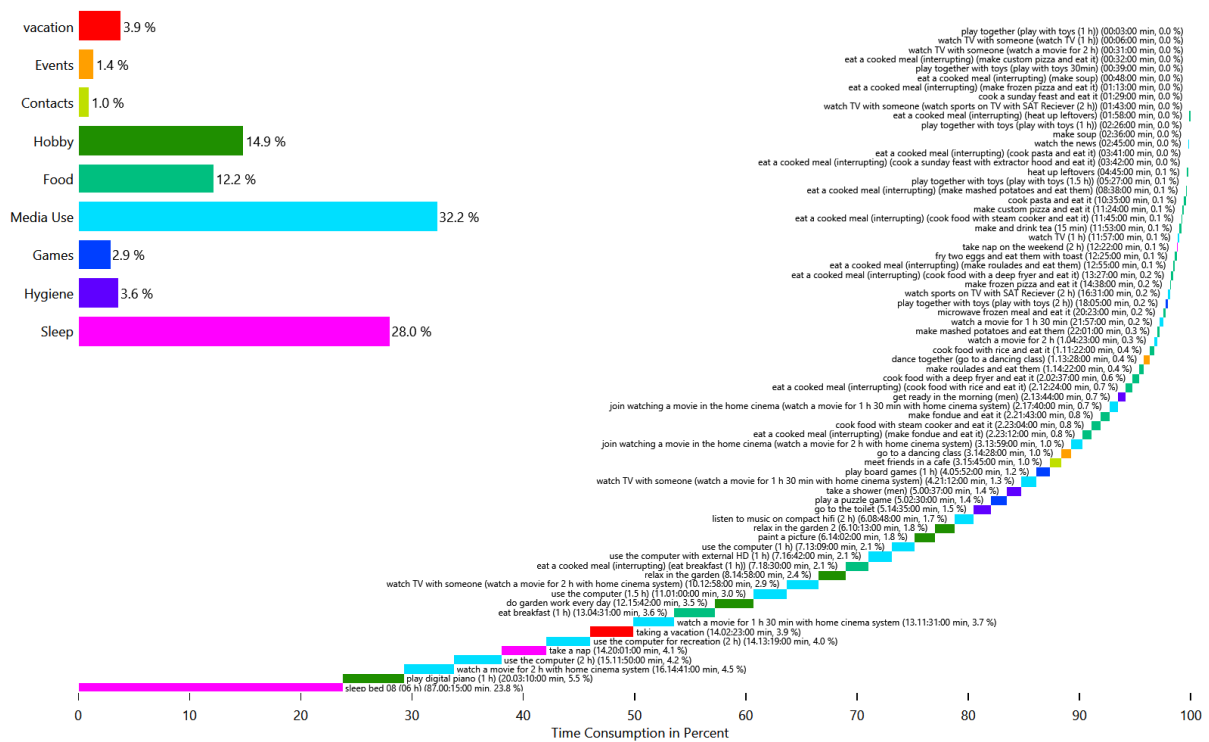
HH0 - CHR15 Eddie (70 Male)



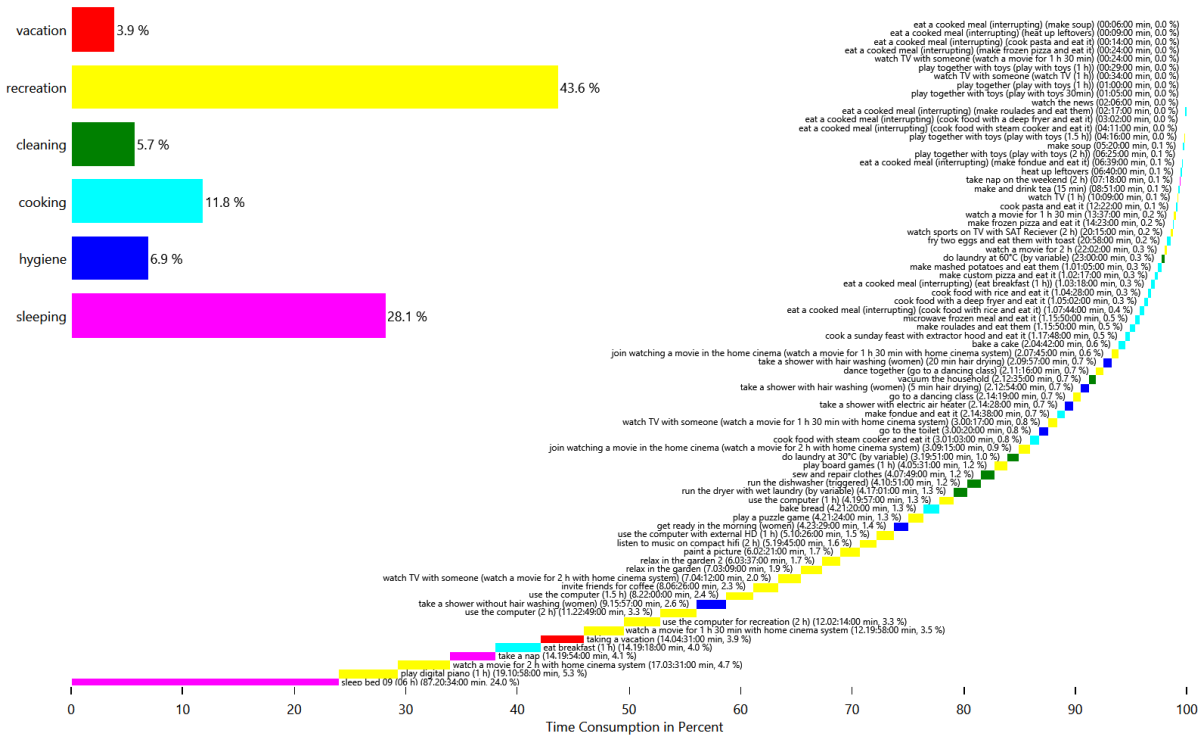
HH0 - CHR15 Eddie (70 Male)



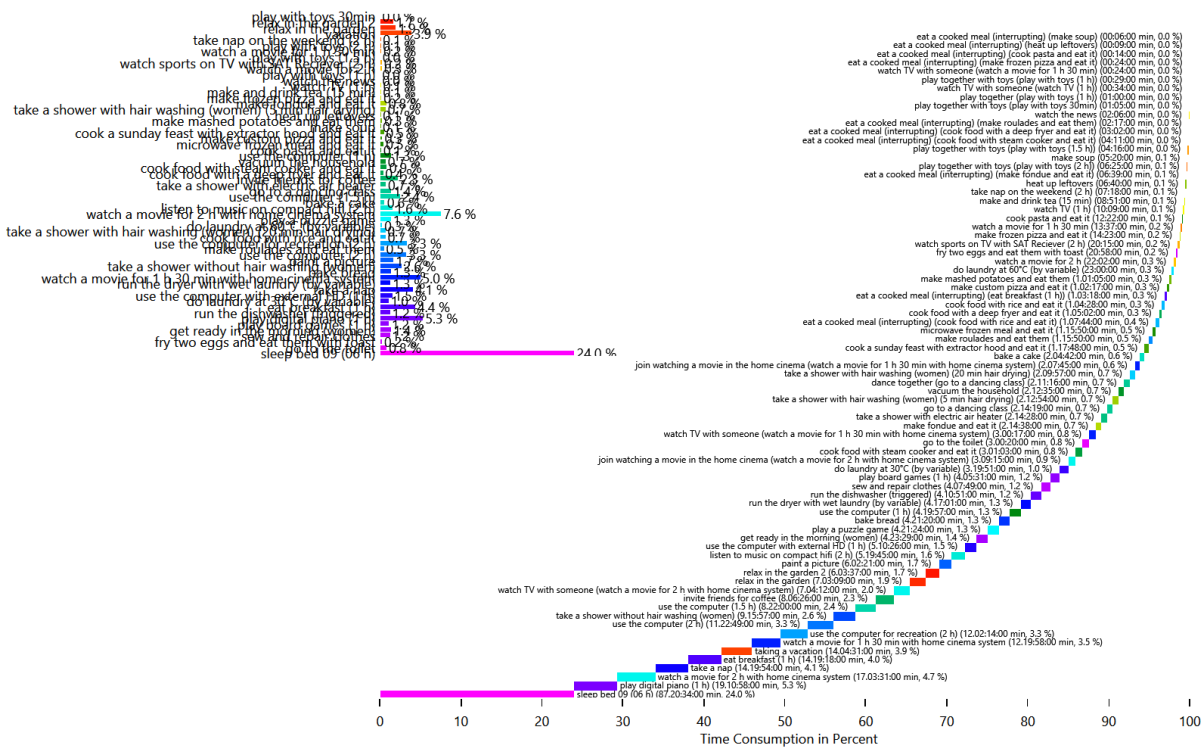
HH0 - CHR15 Eddie (70 Male)



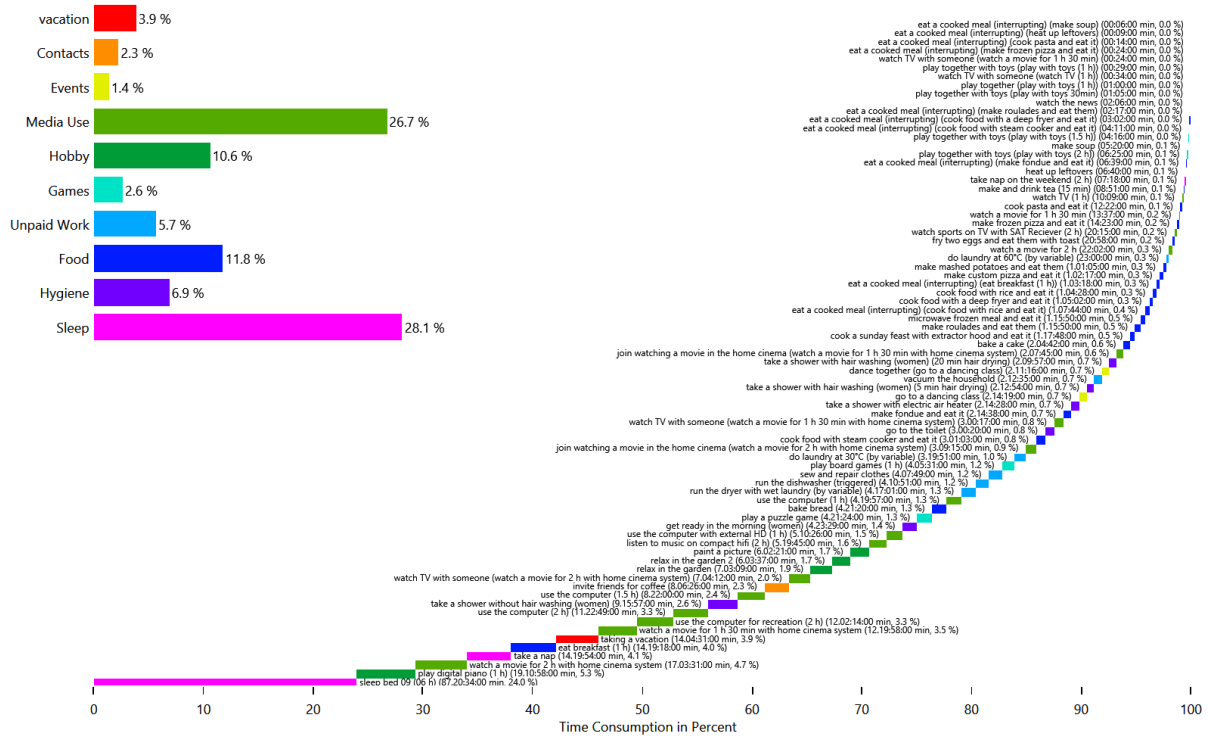
HH0 - CHR15 Myra (68 Female)



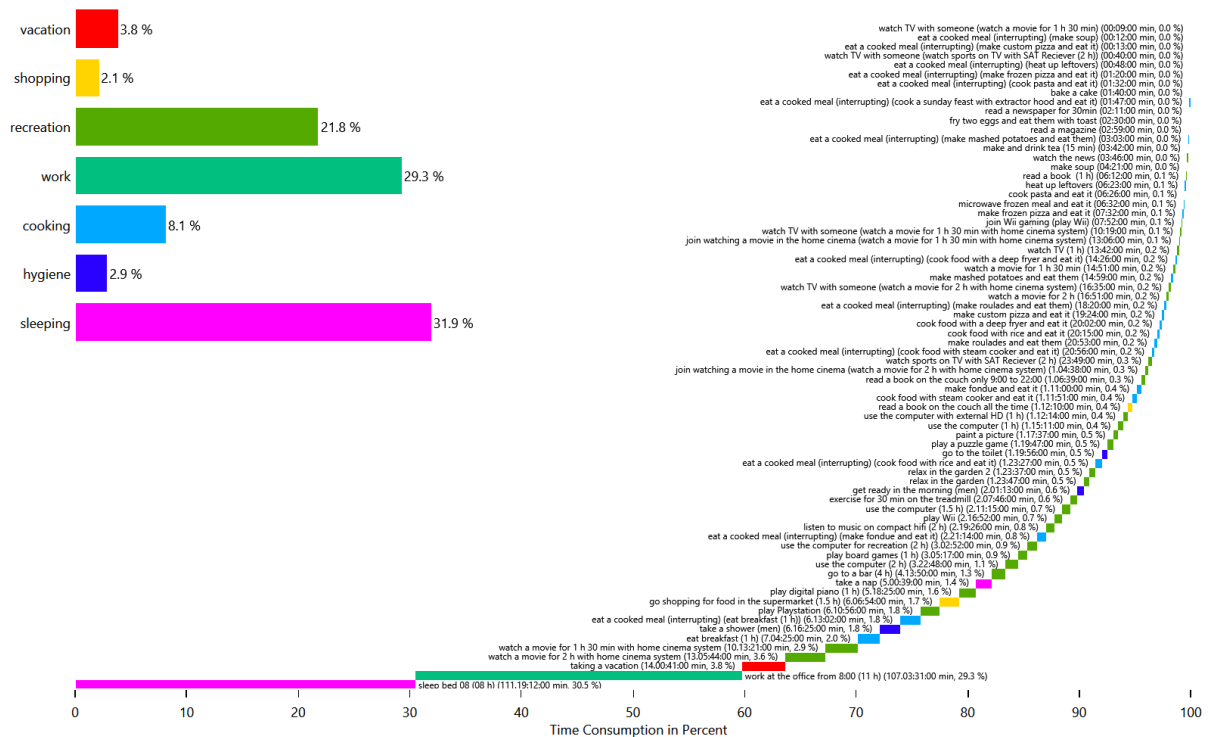
HH0 - CHR15 Myra (68 Female)



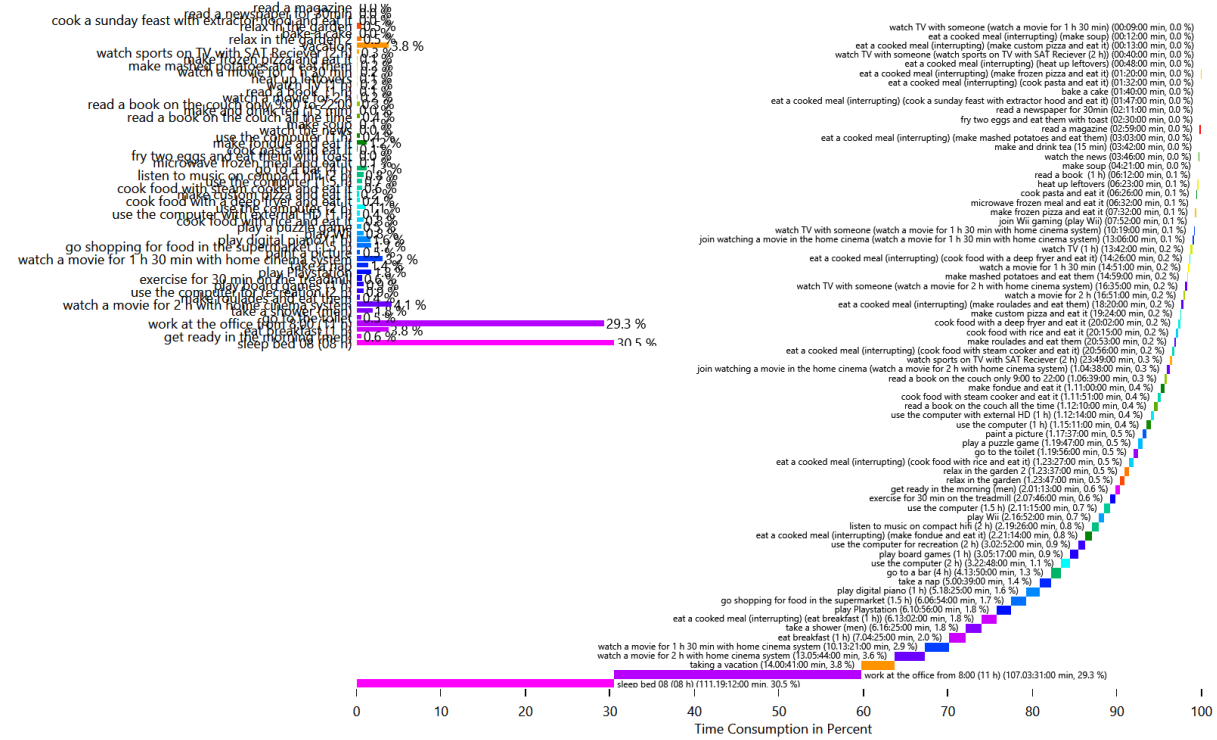
HH0 - CHR15 Myra (68 Female)



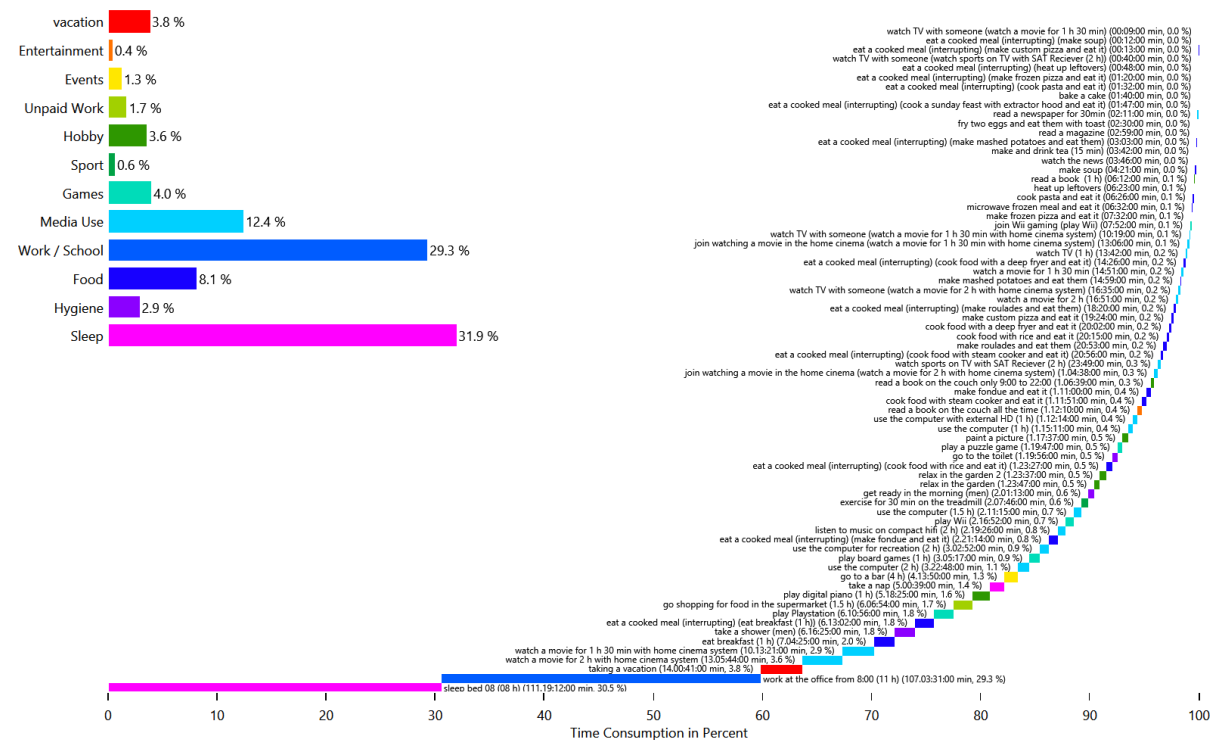
HH0 - CHR15 Nick (40 Male)



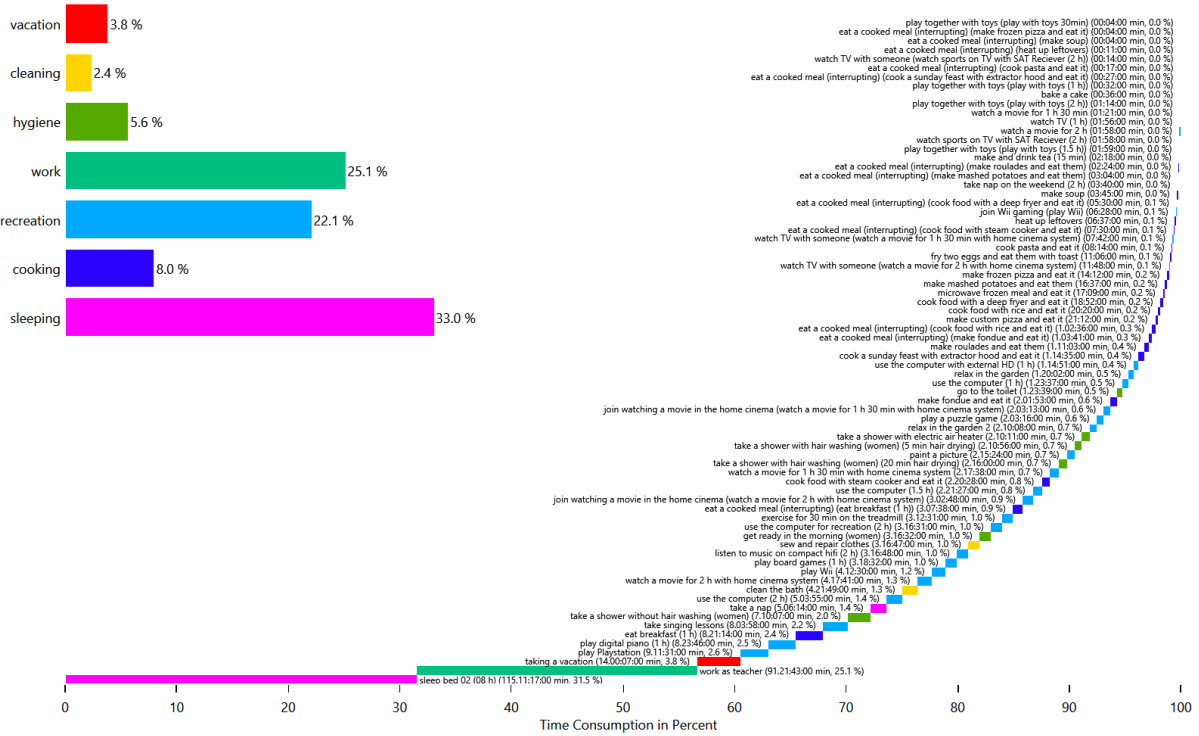
HH0 - CHR15 Nick (40 Male)



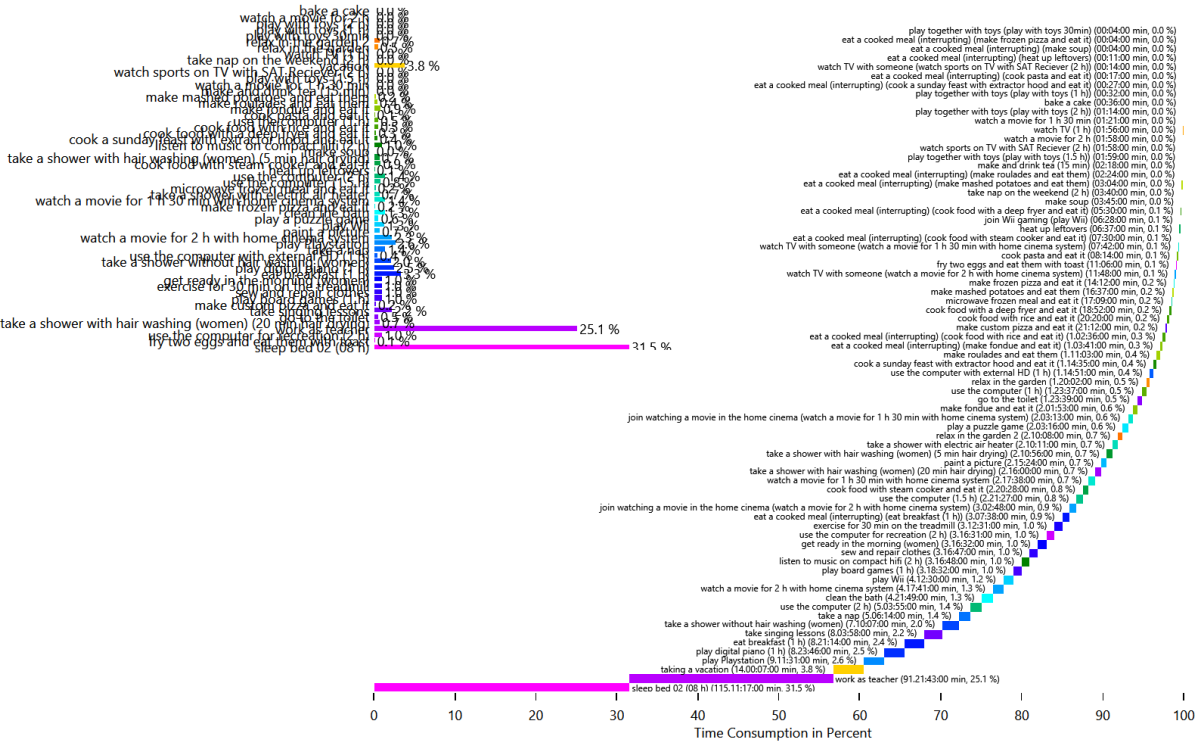
HH0 - CHR15 Nick (40 Male)



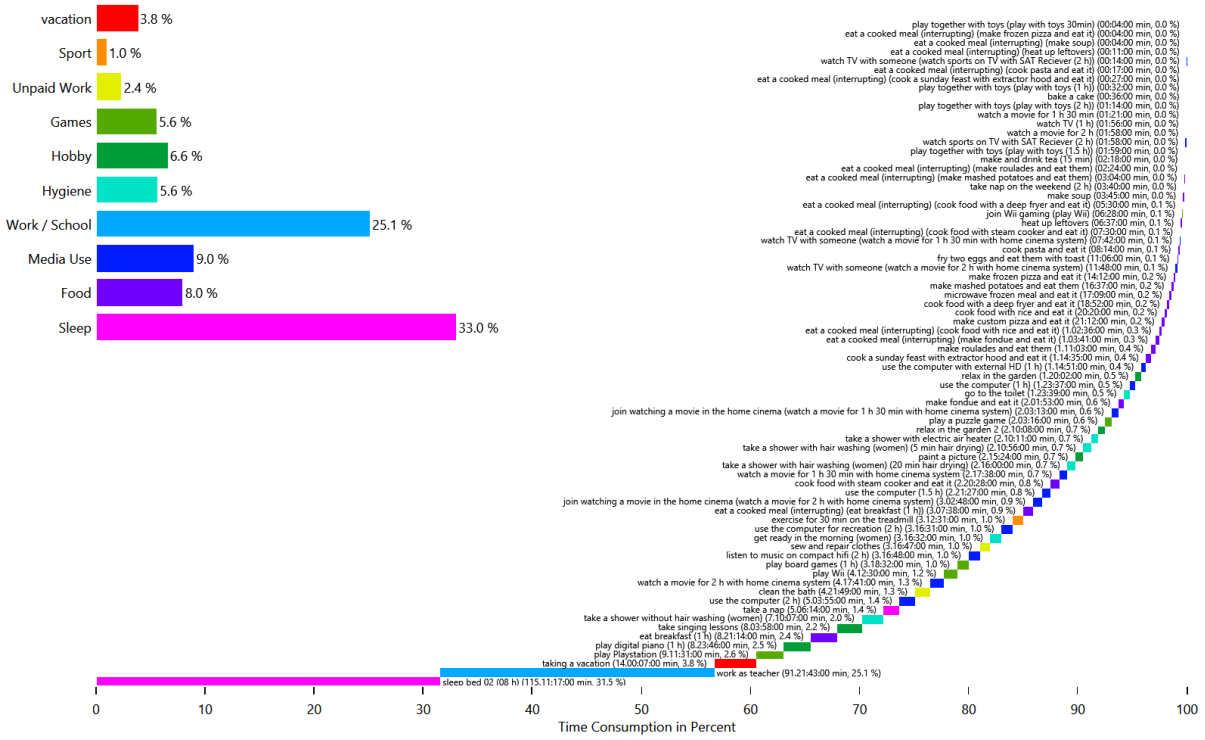
HH0 - CHR15 Rebekah (32 Female)



HH0 - CHR15 Rebekah (32 Female)



HH0 - CHR15 Rebekah (32 Female)

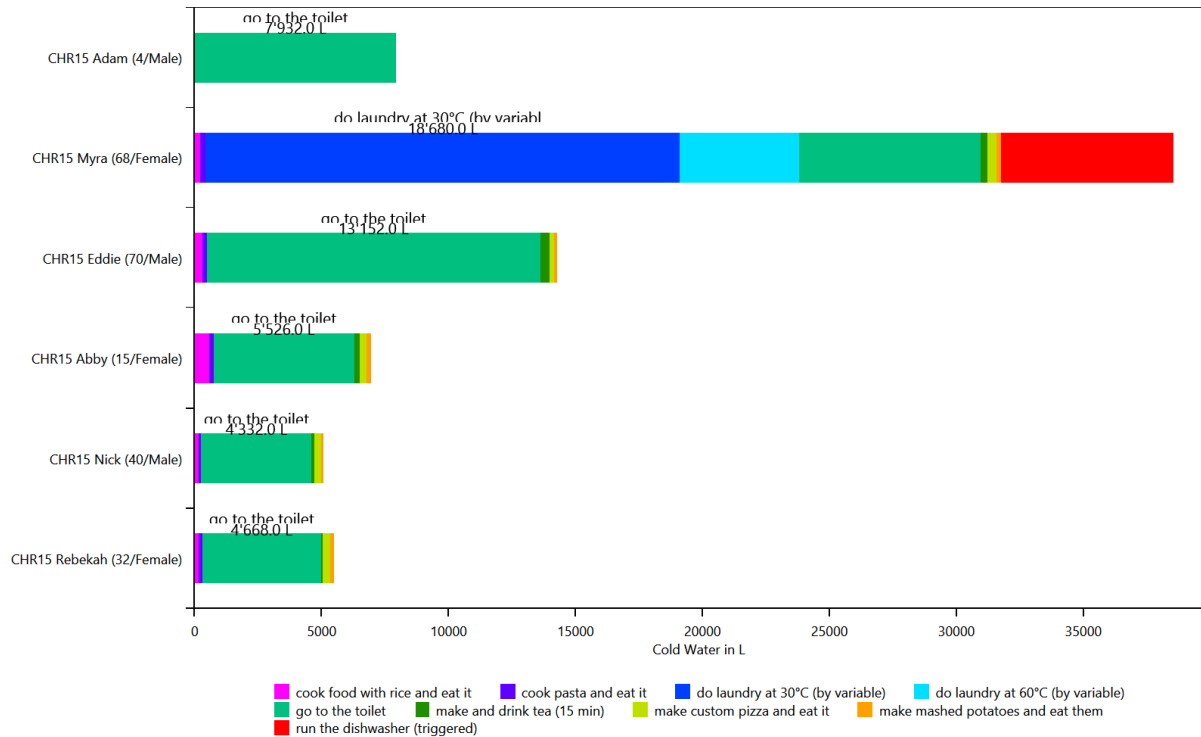


Energy use per person per affordance

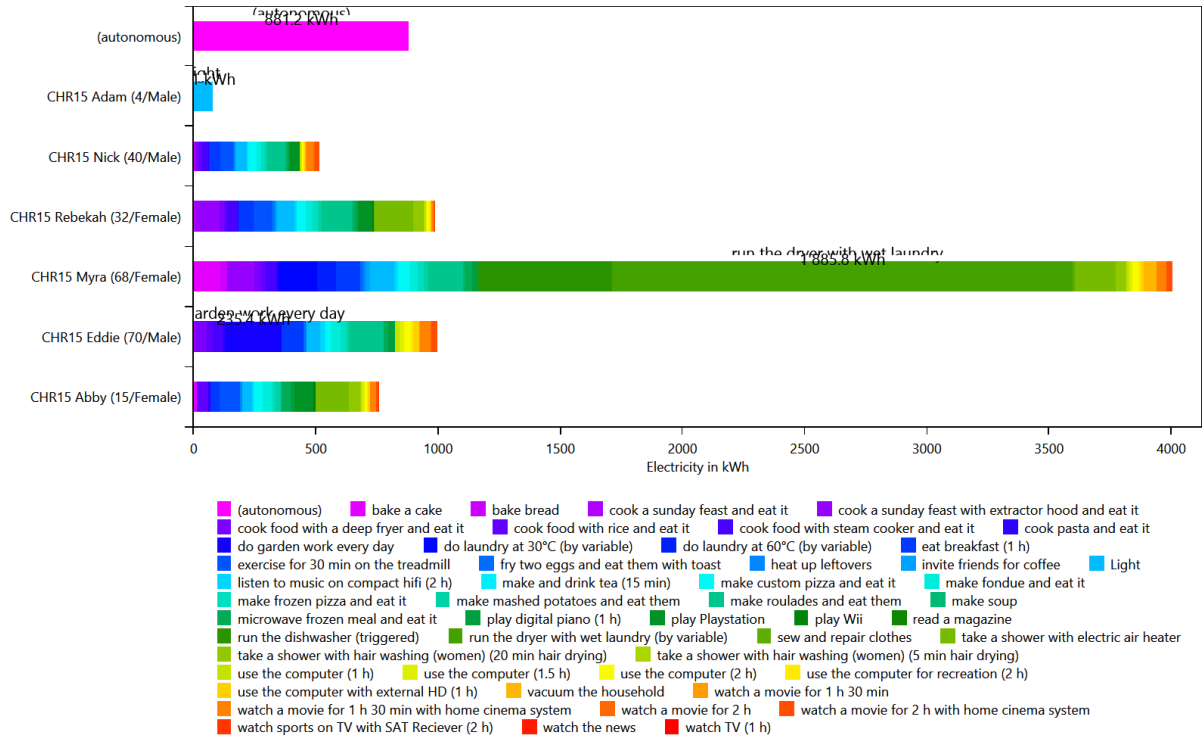
This is made from the files starting with: `AffordanceEnergyUsePerPerson`

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.

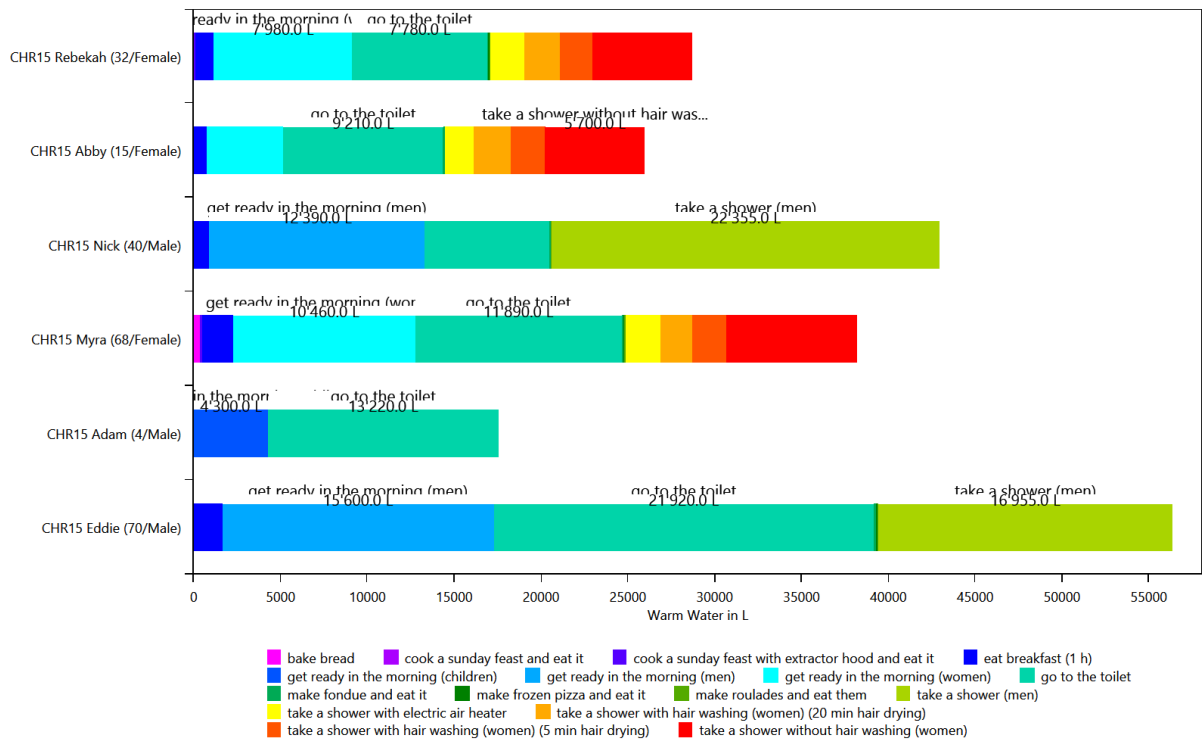
HH0 - Cold Water



HH0 - Electricity



HH0 - Warm Water

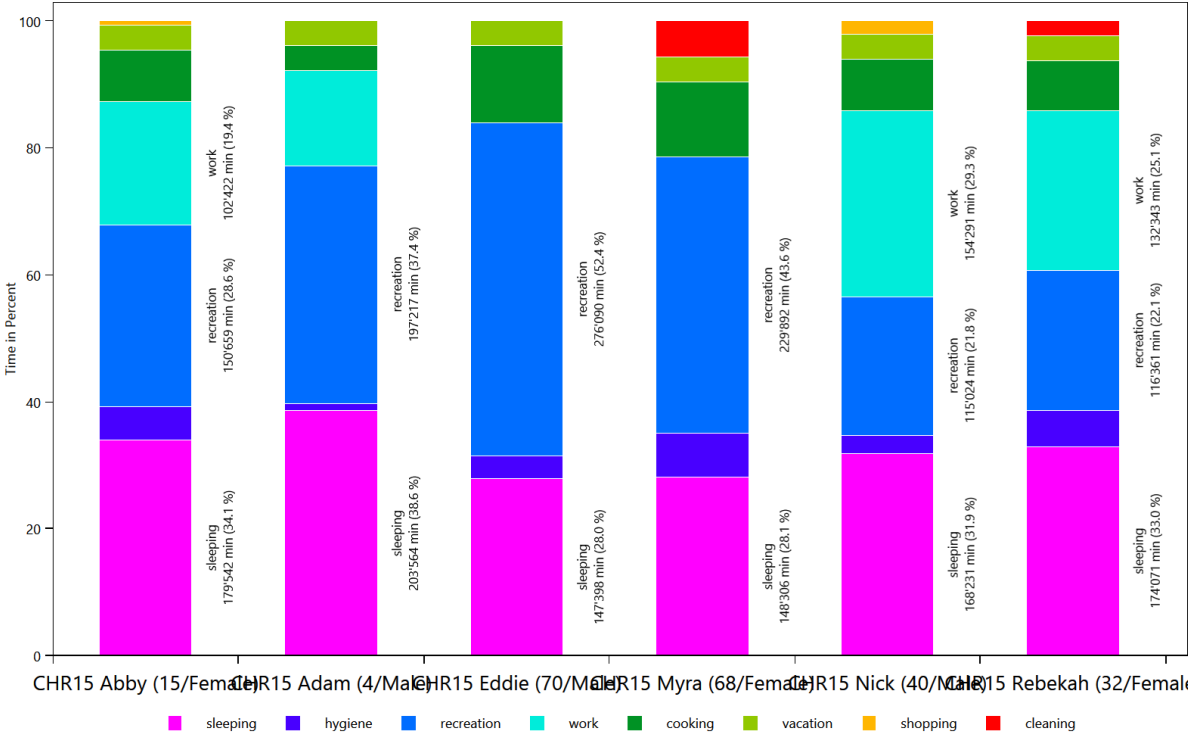


Time Use per Person Per Affordance according to different category definitions

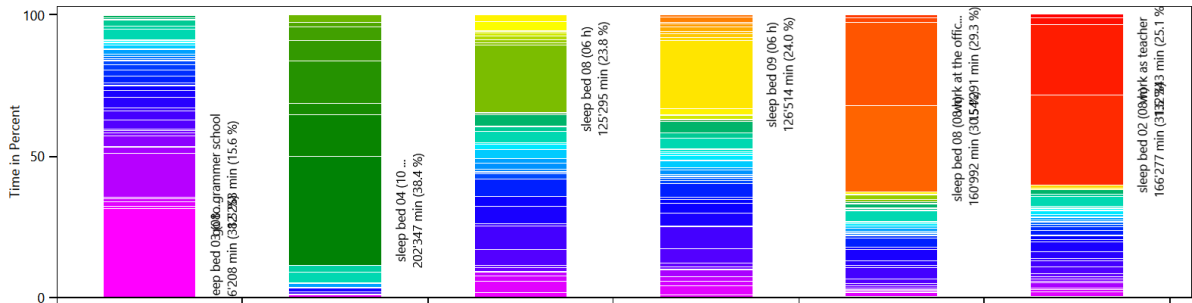
This is made from the files starting with: AffordanceTaggingSet

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



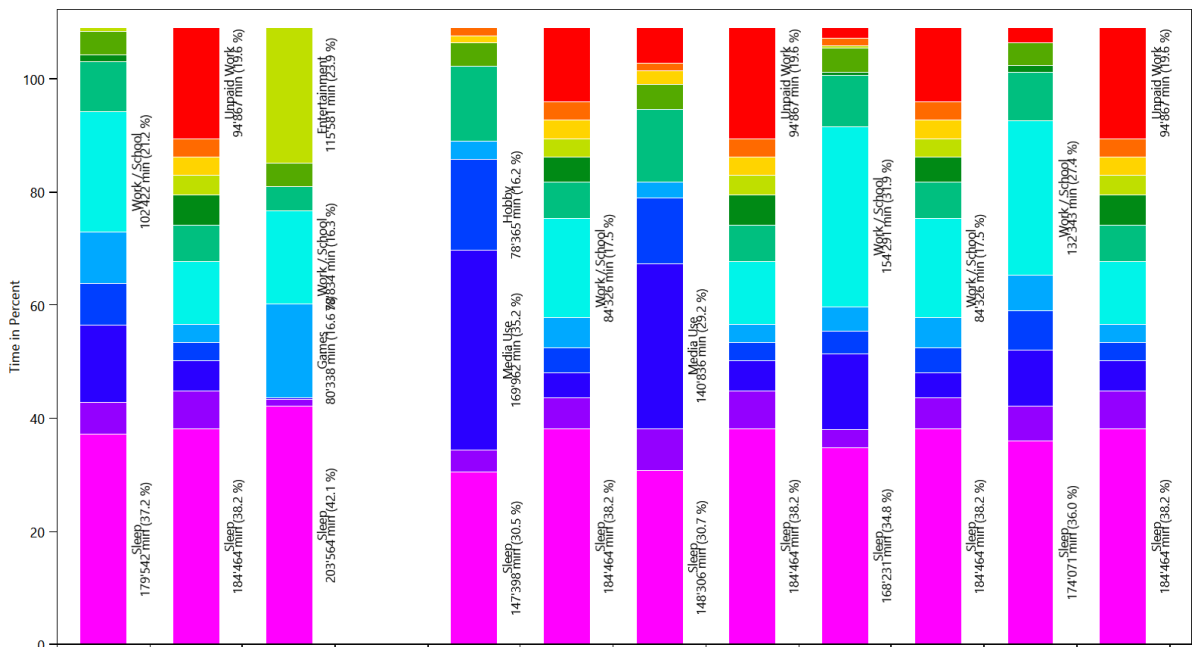
Tagging Set For Planning - HH0



CHR15 Abby (15/Female) CHR15 Adam (4/Male) CHR15 Eddie (70/Male) CHR15 Myra (68/Female) CHR15 Nick (40/Male) CHR15 Rebekah (32/Female)

- sleep bed 03 (08 h) Child
- go to the toilet
- use the computer (2 h)
- paint a picture
- play a puzzle game
- go to grammer school
- take a shower without hair washing (women)
- make frozen pizza and eat it
- study at home
- exercise for 30 min on the treadmill
- play board games (1 h)
- cook food with steam cooker and eat it
- play digital piano (1 h)
- watch a movie for 2 h with home cinema system
- cook food with rice and eat it
- play Playstation
- eat breakfast (1 h)
- use the computer for recreation (2 h)
- get ready in the morning (women)
- take a shower with hair washing (women) (20 min hair drying)
- watch a movie for 1 h 30 min with home cinema system
- play Wii
- take nap on the weekend (2 h)
- use the computer (1 h)
- microwave frozen meal and eat it
- take a shower with hair washing (women) (5 min hair drying)
- make mashed potatoes and eat them
- cook food with a deep fryer and eat it
- use the computer with external HD (1 h)
- make fondue and eat it
- cook pasta and eat it
- heat up leftovers
- use the computer (1.5 h)
- make custom pizza and eat it
- listen to music on compact hifi (2 h)
- take a shower with electric air heater
- make soup
- make roulades and eat them
- cook a sunday feast and eat it
- bake a cake
- cook a sunday feast with extractor hood and eat it
- vacation
- play in the garden
- relax in the garden 2
- read a book on the couch all the time
- make and drink tea (15 min)
- take a nap
- read a book on the couch only 9:00 to 22:00
- read a book (1 h)
- watch sports on TV with SAT Reciever (2 h)
- read a newspaper for 30min
- read a magazine
- watch a movie for 1 h 30 min
- sleep bed 04 (10 h) Child
- go to kindergarden
- play with toys (1.5 h)
- play with wooden toys (2 h)
- play with wooden toys (1 h)
- play with toys (2 h)
- play with toys 30min
- get ready in the morning (children)
- play with toys (1 h)
- sleep bed 08 (06 h)
- get ready in the morning (men)
- take a shower (men)
- watch the news
- meet friends in a cafe
- fry two eggs and eat them with toast
- go to a dancing class
- watch TV (1 h)
- watch a movie for 2 h
- do garden work every day
- relax in the garden
- sleep bed 09 (06 h)
- sew and repair clothes
- run the dishwasher (triggered)
- do laundry at 30°C (by variable)
- run the dryer with wet laundry (by variable)
- bake bread
- do laundry at 60°C (by variable)
- invite friends for coffee
- vacuum the household
- sleep bed 08 (08 h)
- work at the office from 8:00 (11 h)
- go shopping for food in the supermarket (1.5 h)
- go to a bar (4 h)
- sleep bed 02 (08 h)
- work as teacher
- take singing lessons
- clean the bath

Wo bleibt die Zeit - HH0



CHR15 Abby (15/Female) CHR15 Adam (4/Male) CHR15 Eddie (70/Male) CHR15 Myra (68/Female) CHR15 Nick (40/Male) CHR15 Rebekah (32/Female)

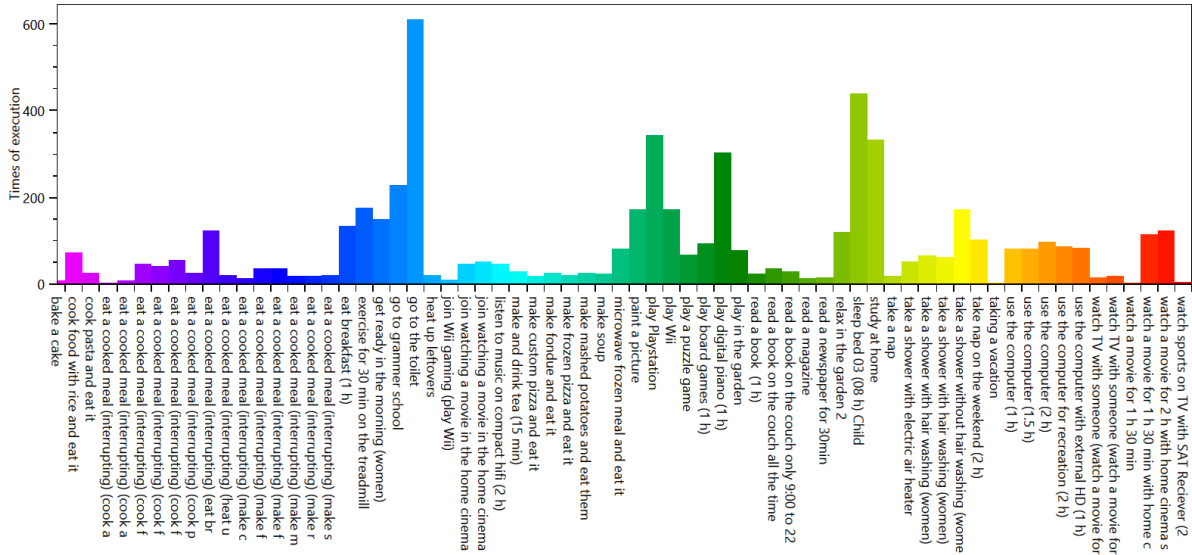
- Sleep
- Hygiene
- Media Use
- Hobby
- Games
- Work / School
- Food
- Sport
- vacation
- Entertainment
- Contacts
- Events
- Unpaid Work

Overview of the actions of each member of the household

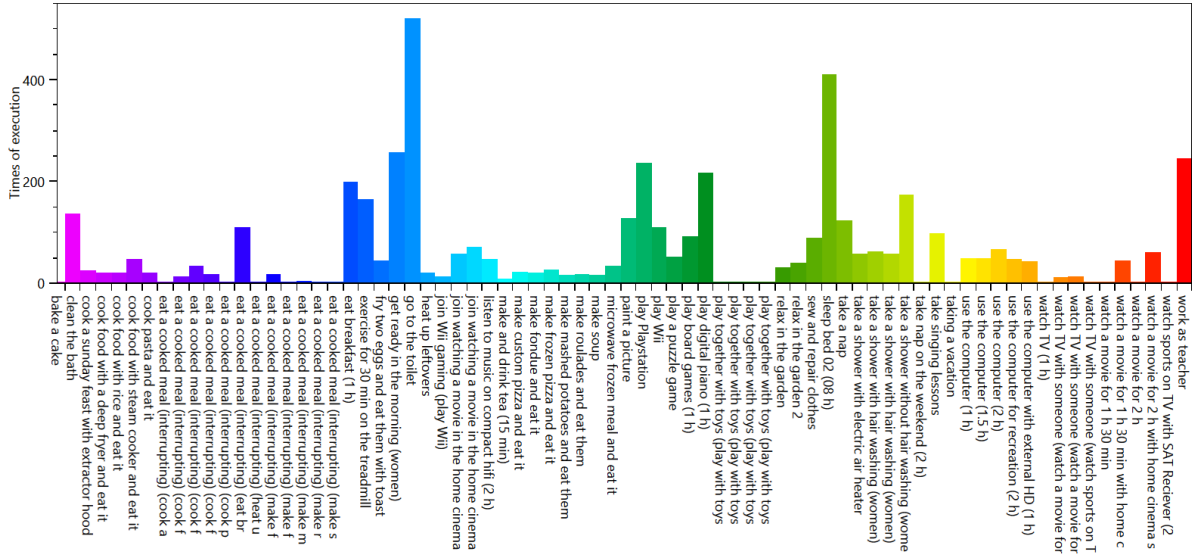
This is made from the files starting with: ExecutedActionsOverviewCount

These charts show how often each affordance was executed.

HH0 - CHR15 Abby (15 Female)



HH0 - CHR15 Rebekah (32 Female)

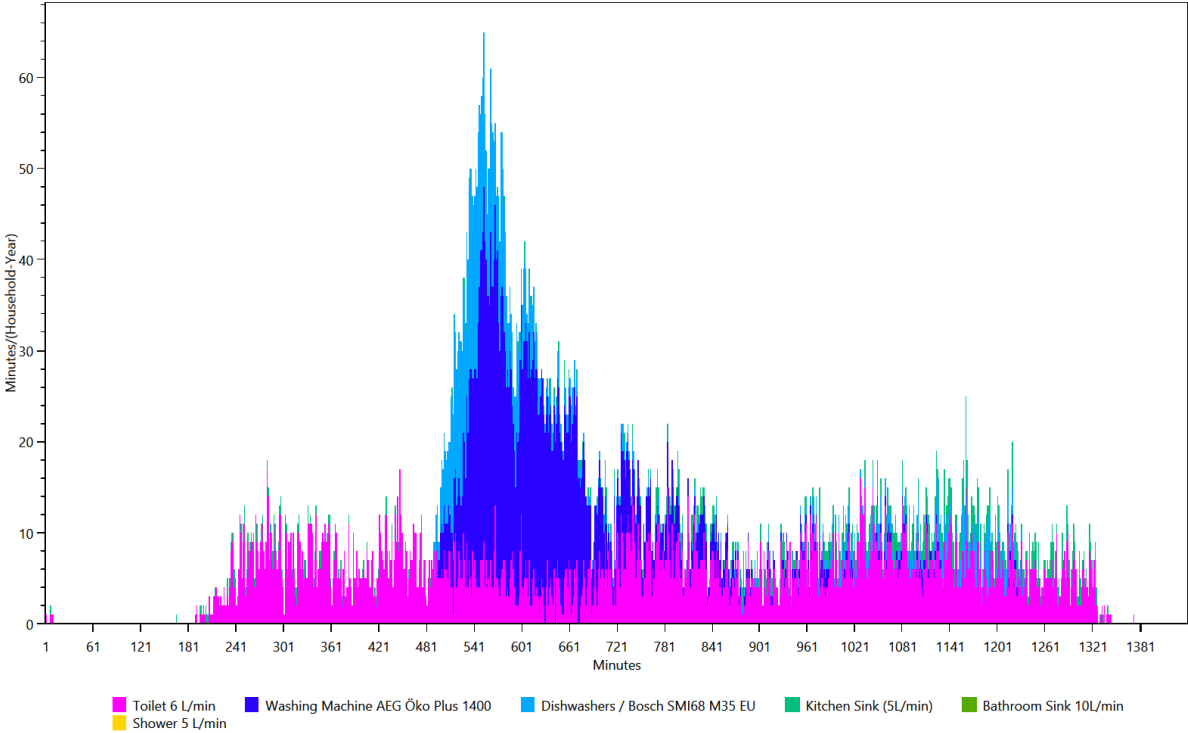


Overview of the time of the use per load type per device

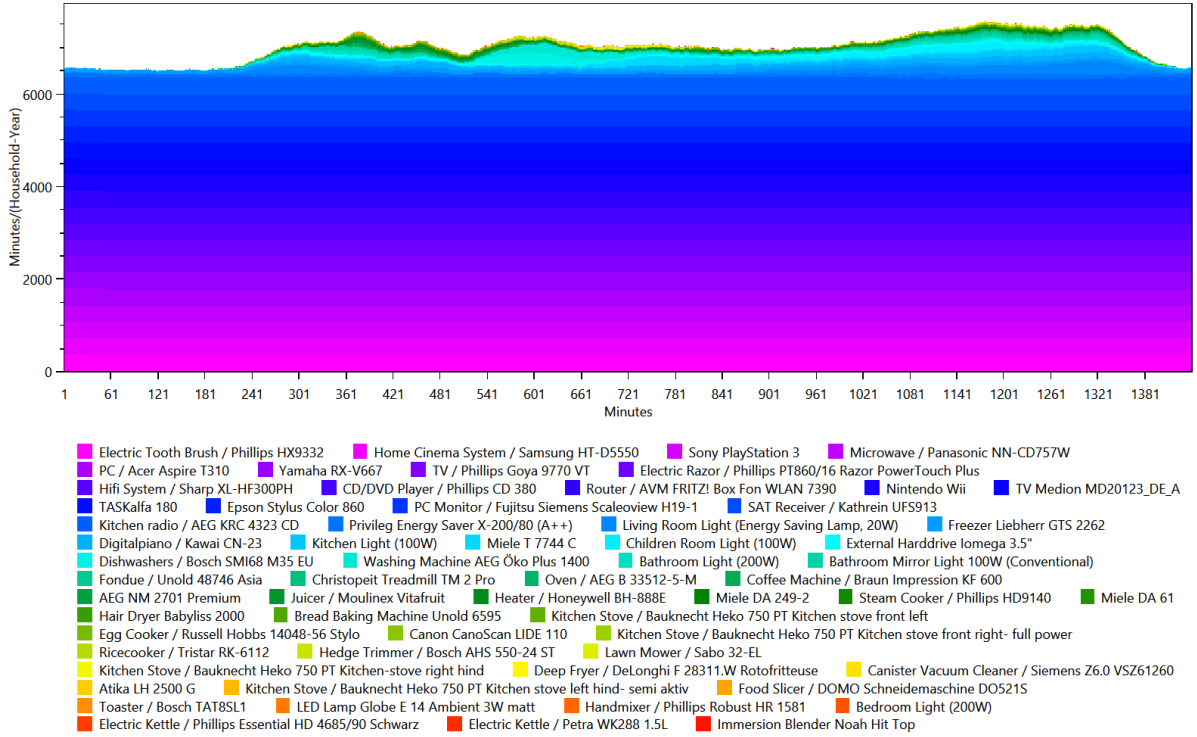
This is made from the files starting with: TimeOfUseEnergyProfiles

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

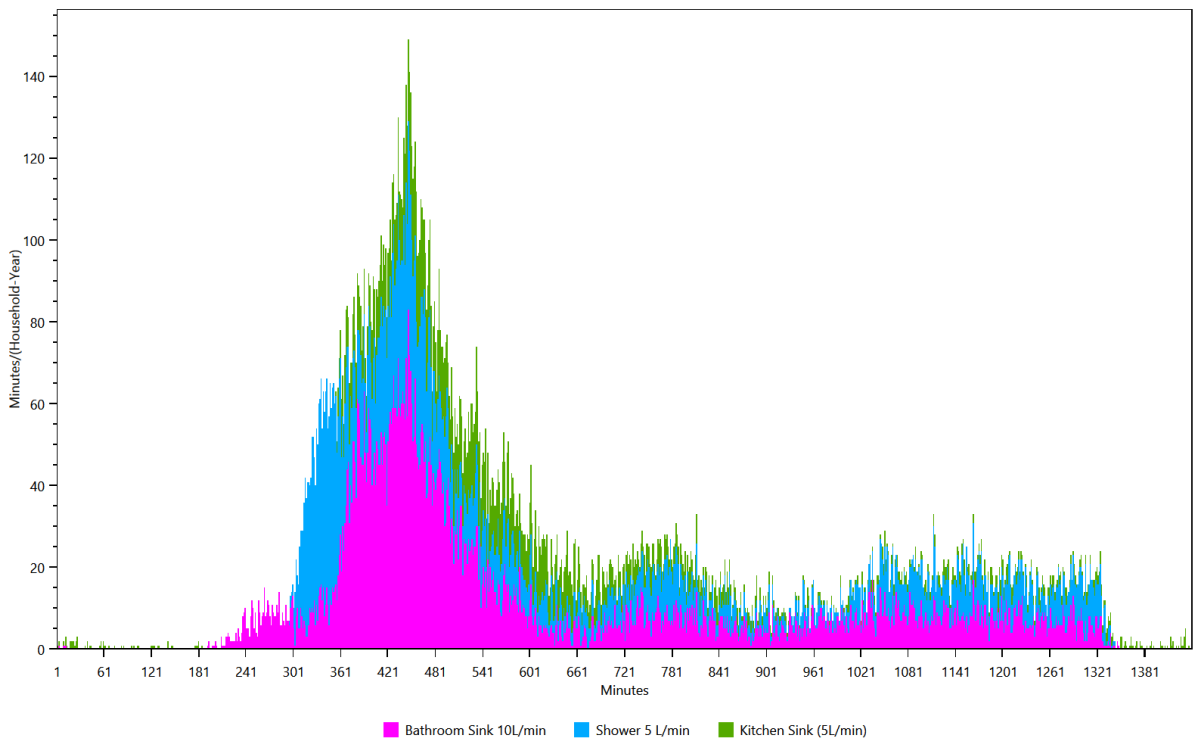
Cold Water



Electricity



Warm Water

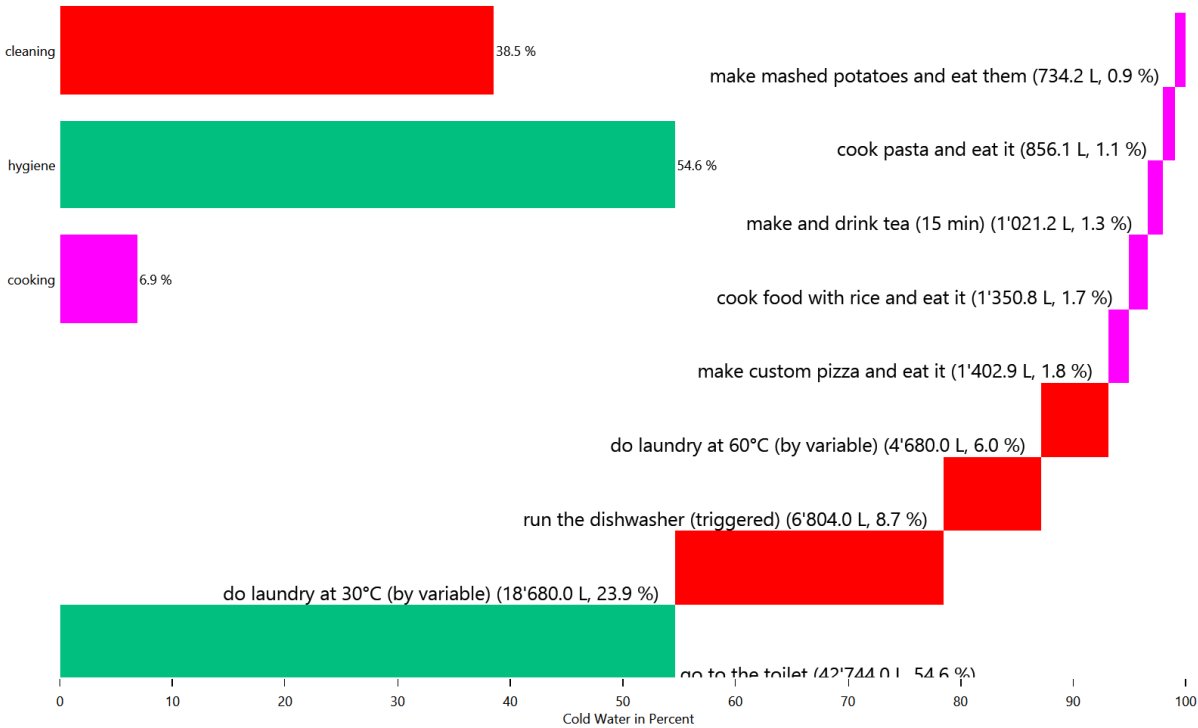


Energy/Resource use distribution per load type per affordance

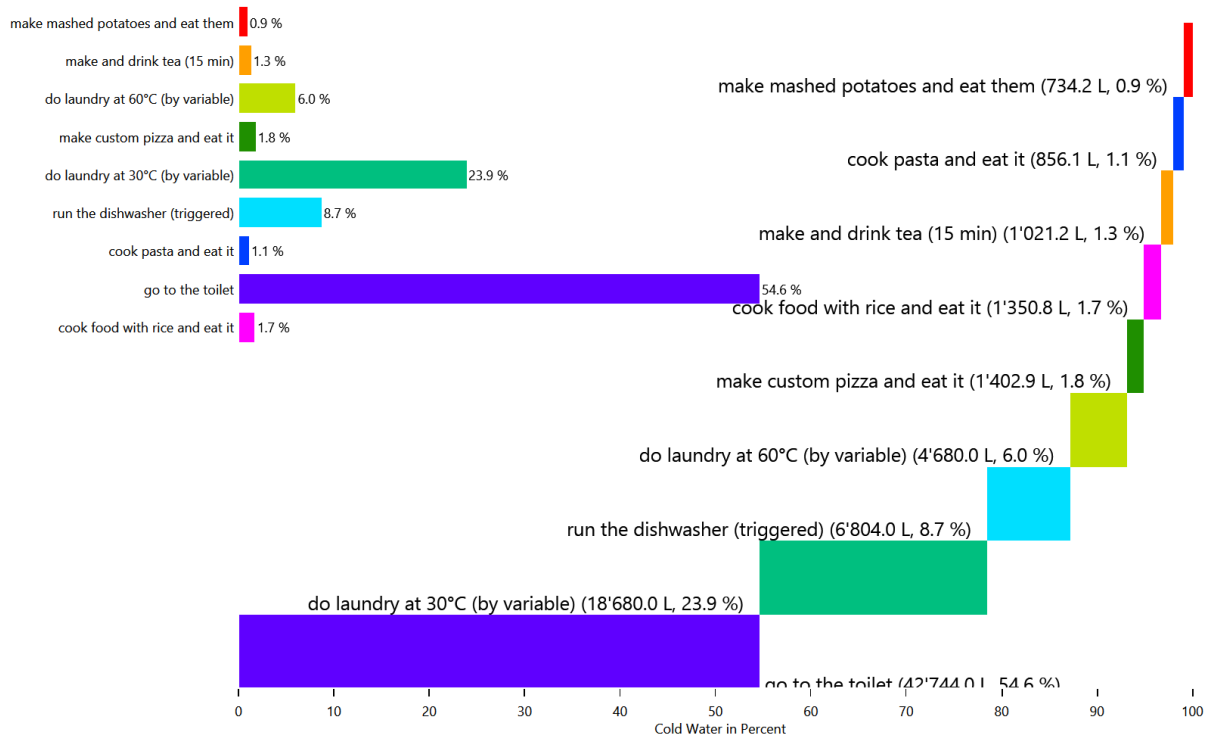
This is made from the files starting with: AffordanceEnergyUse

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

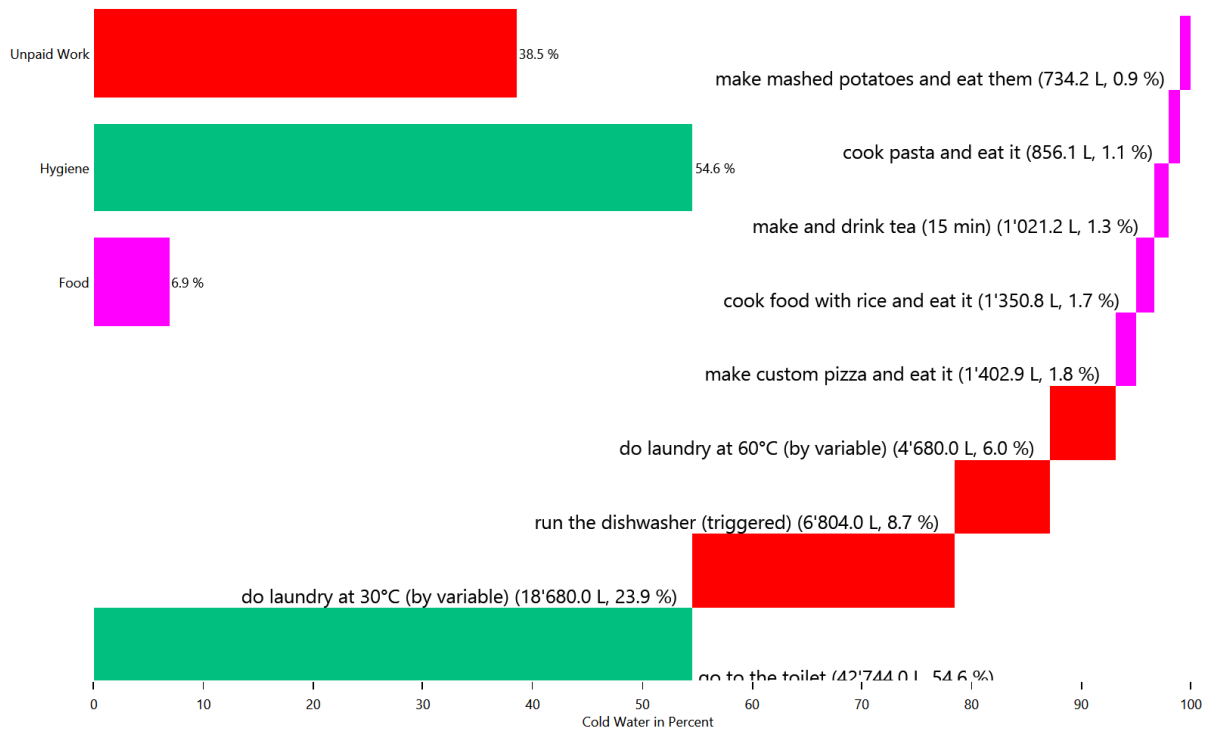
HH0 - Cold Water



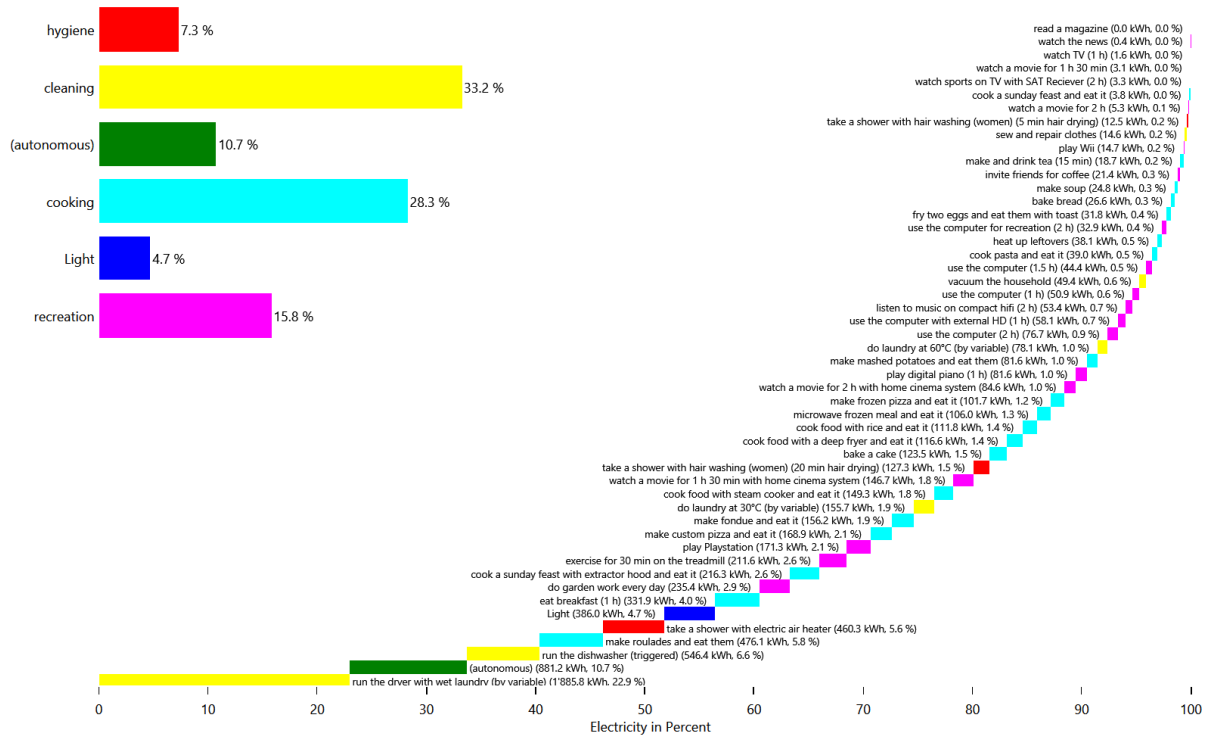
HH0 - Cold Water



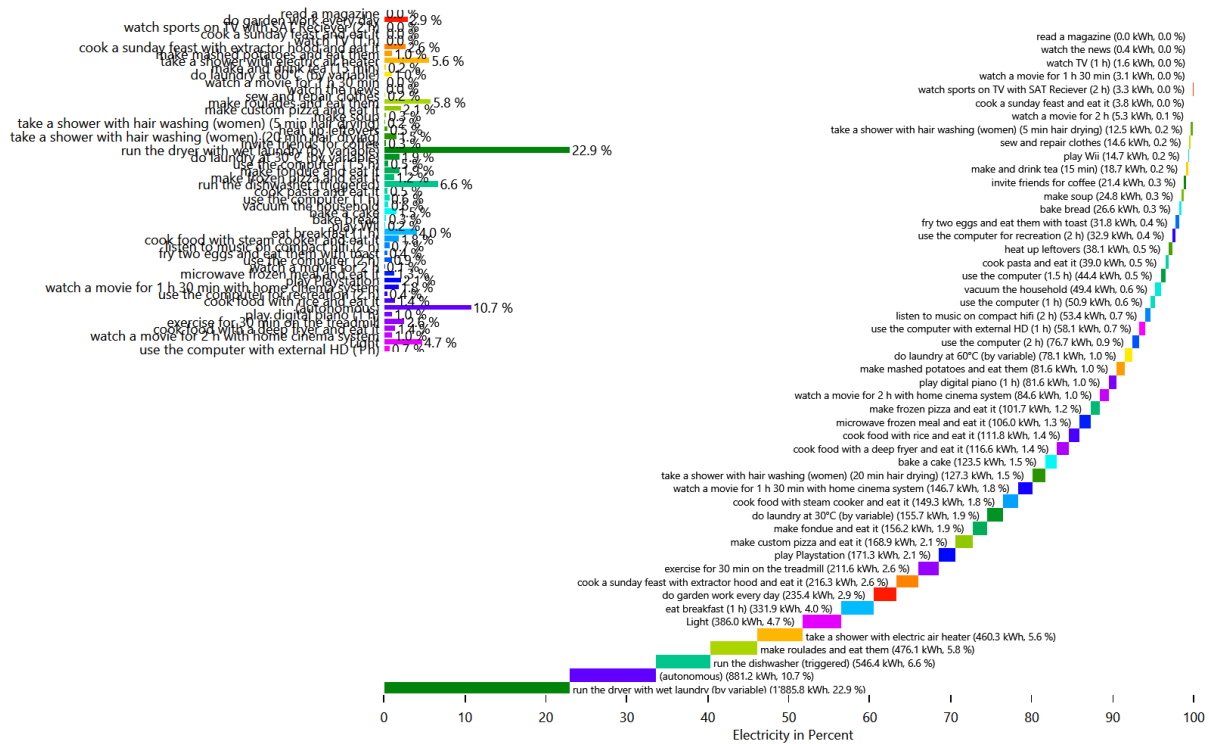
HH0 - Cold Water



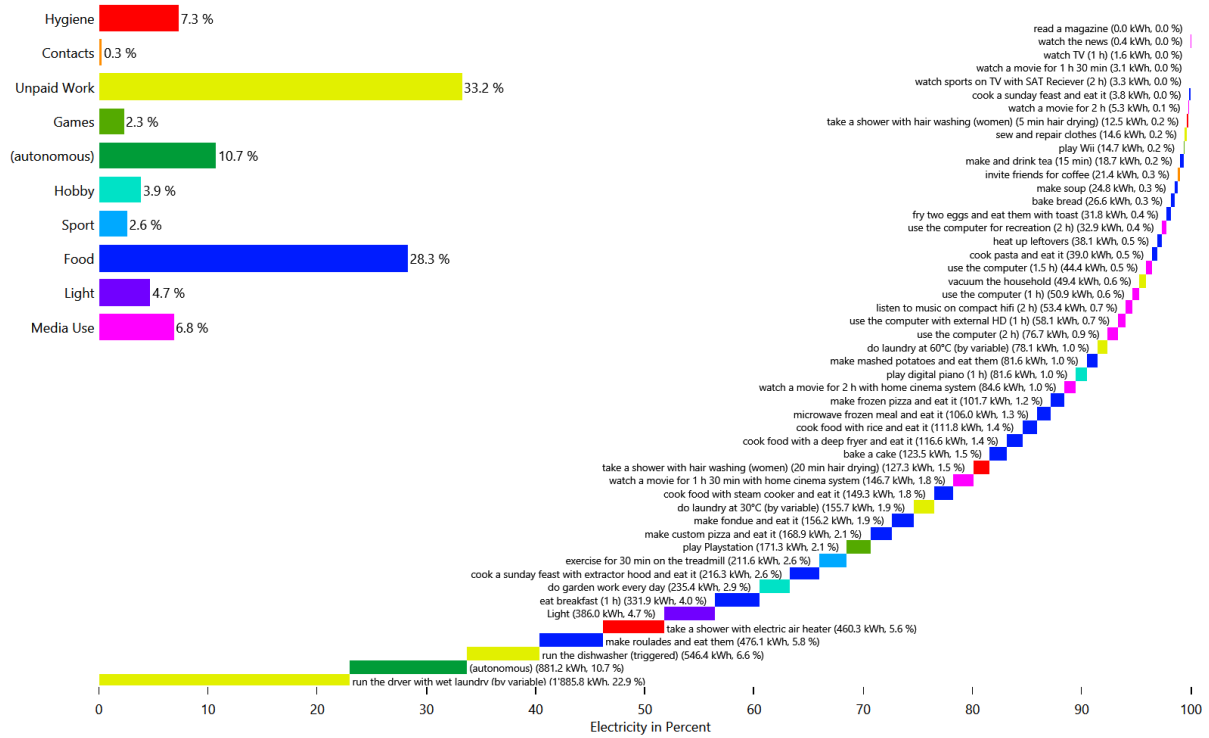
HH0 - Electricity



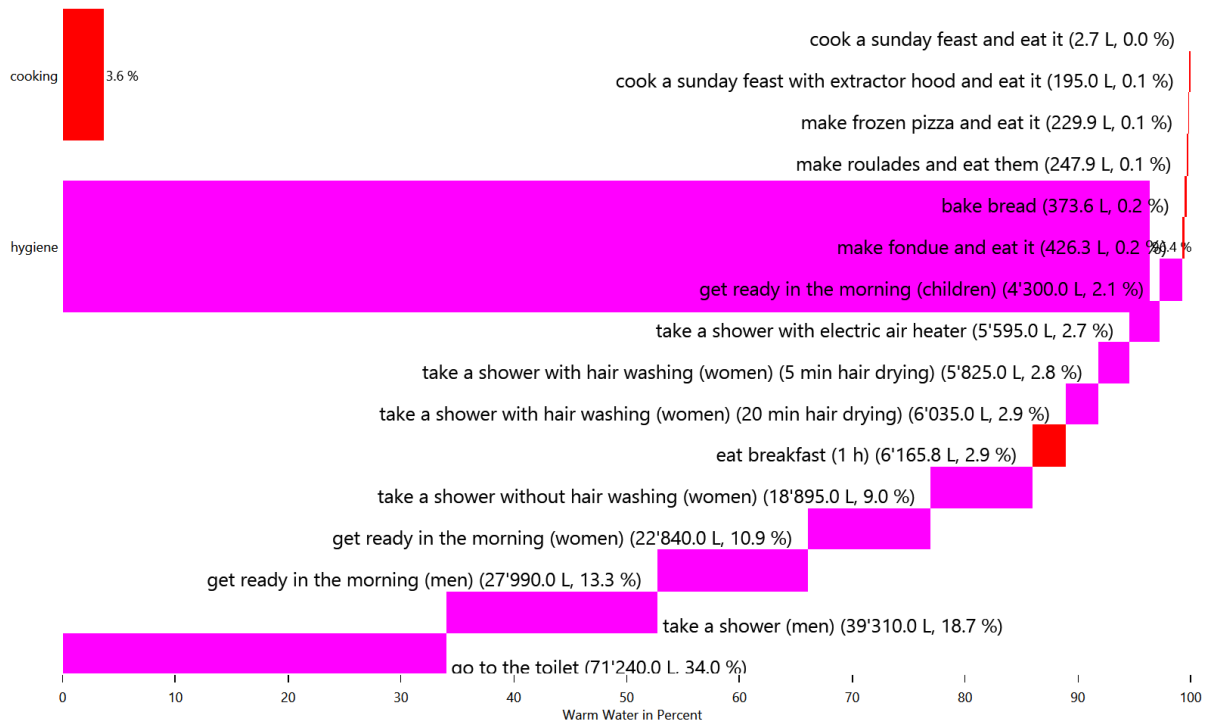
HH0 - Electricity



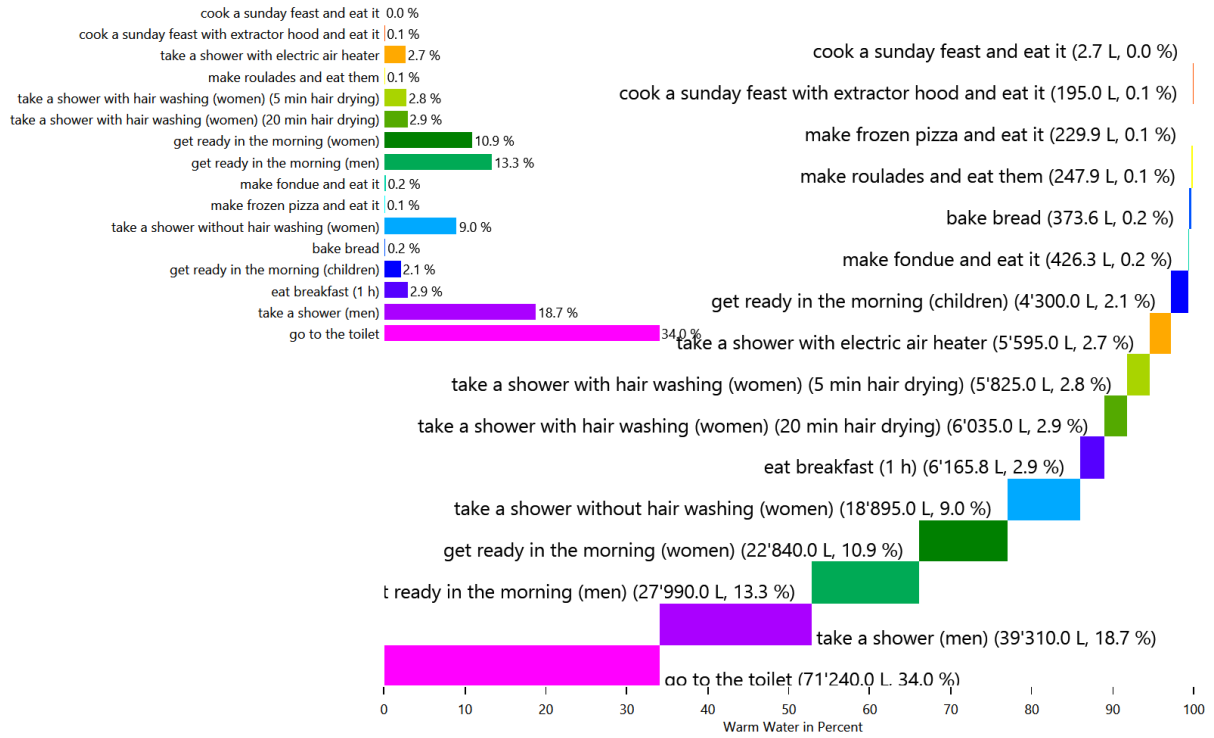
HH0 - Electricity



HH0 - Warm Water



HH0 - Warm Water



HH0 - Warm Water

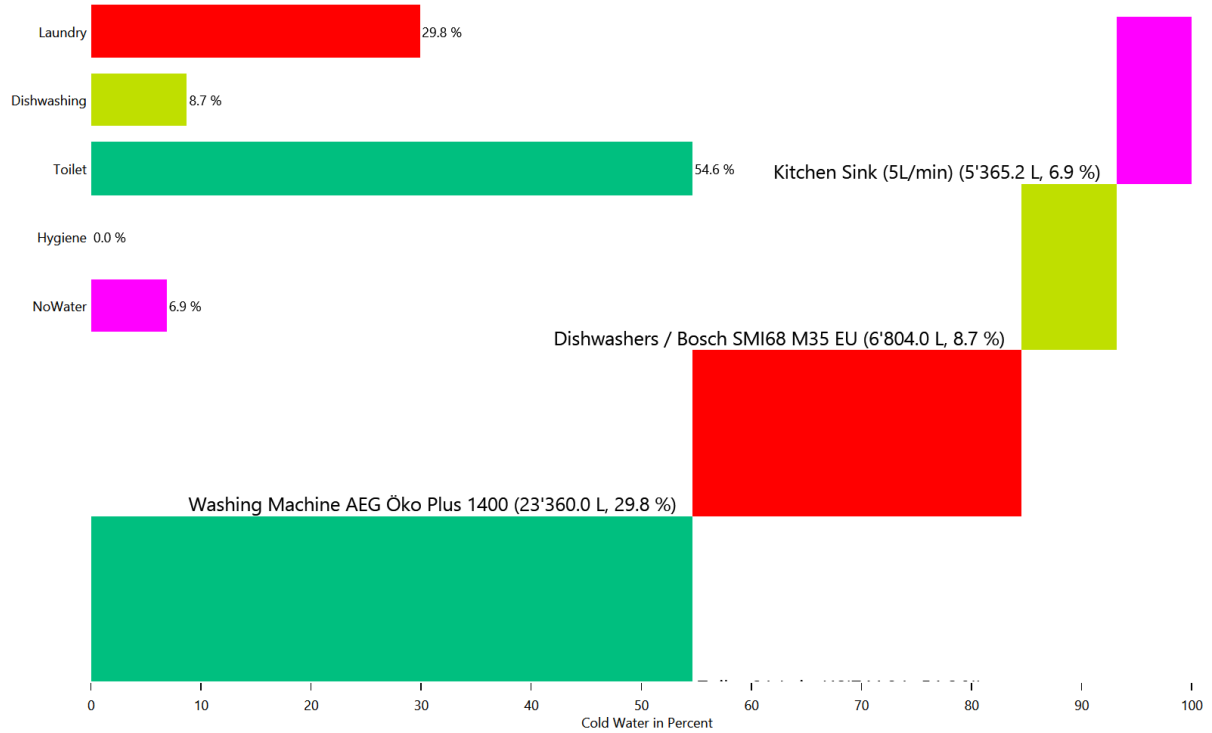


Energy use for each load type for each device

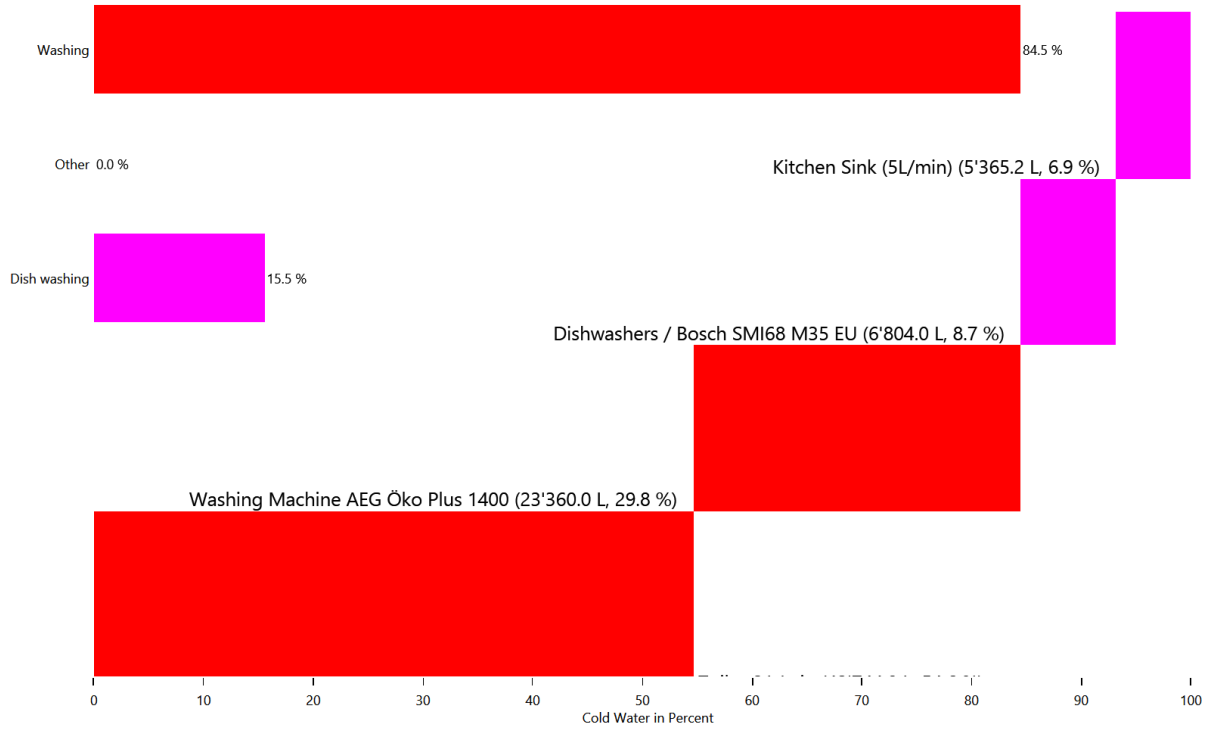
This is made from the files starting with: DeviceSums

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

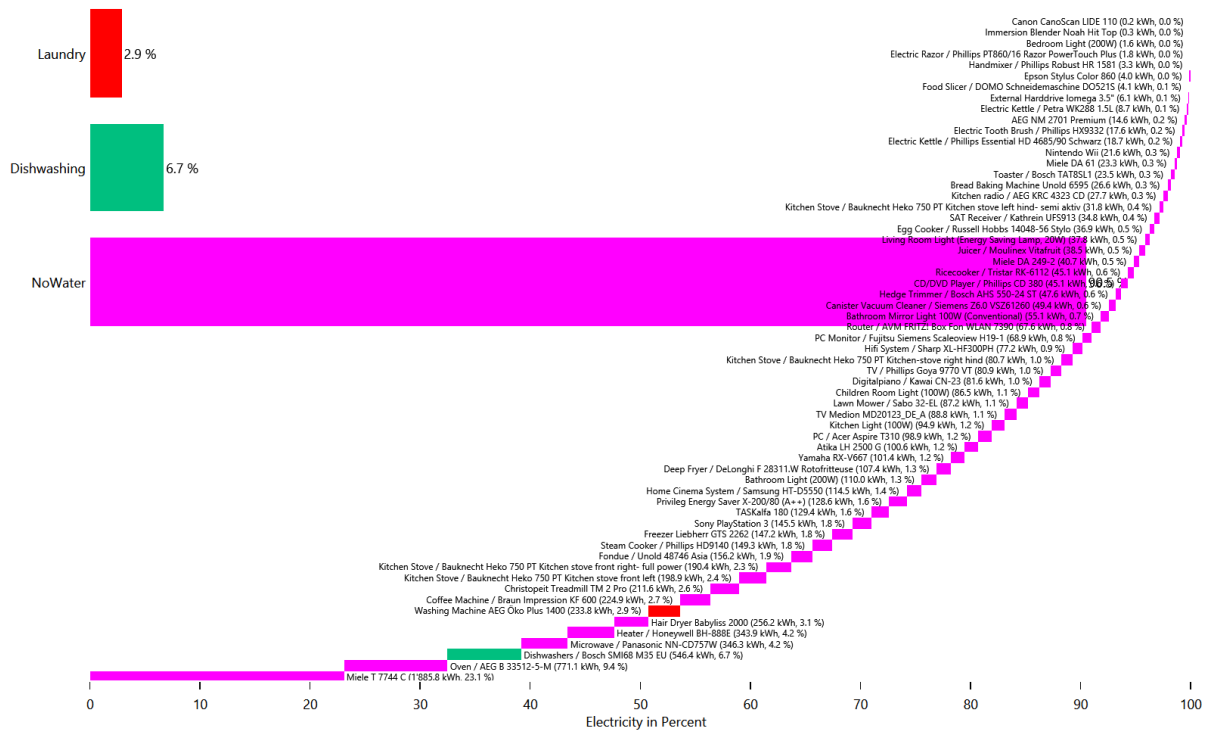
Cold Water



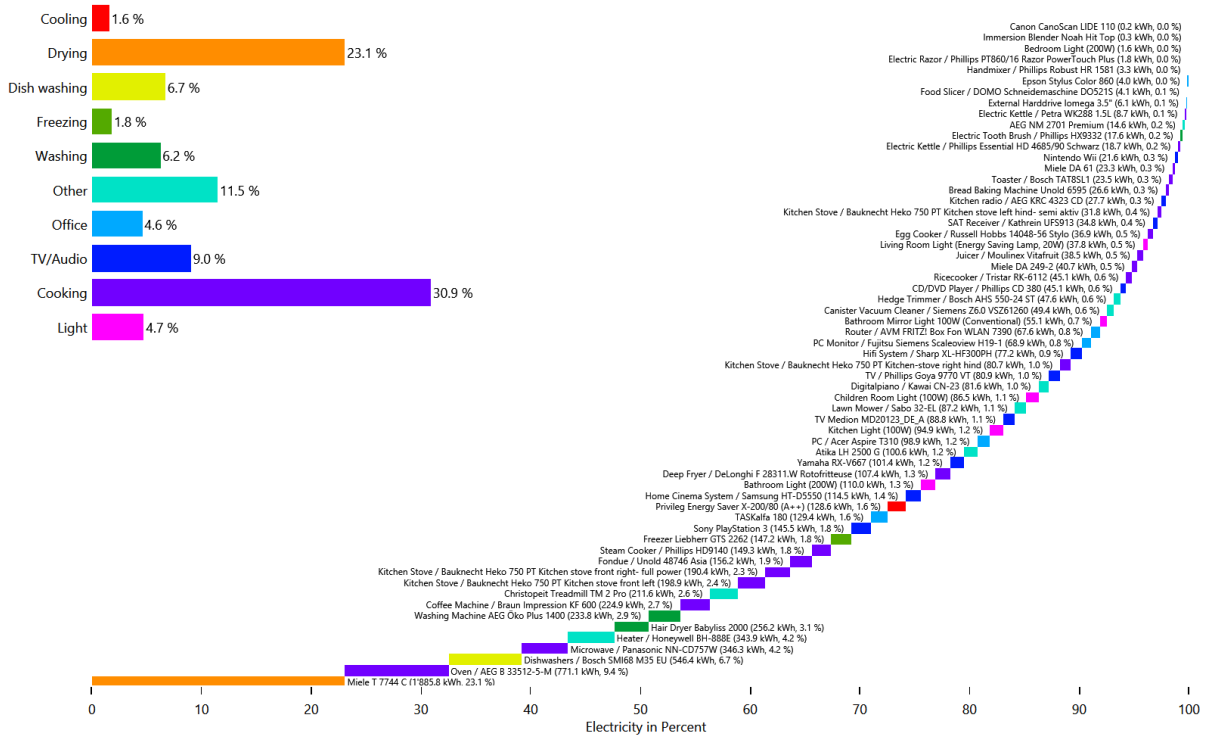
Cold Water



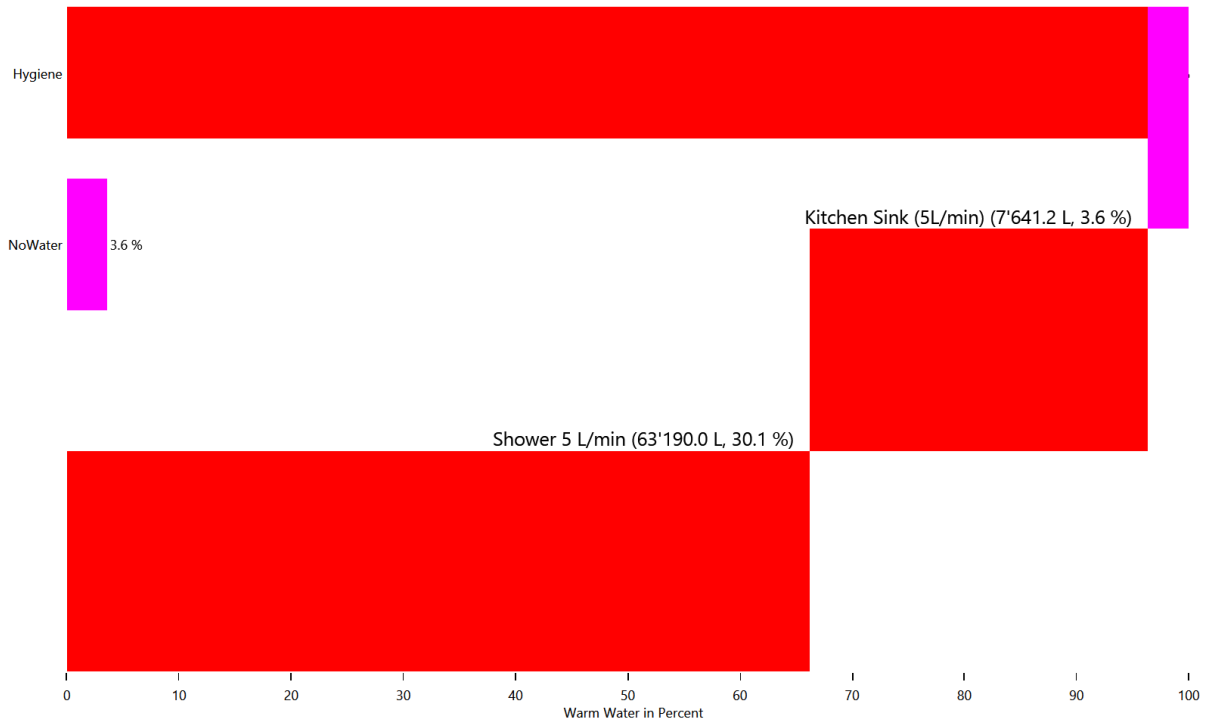
Electricity



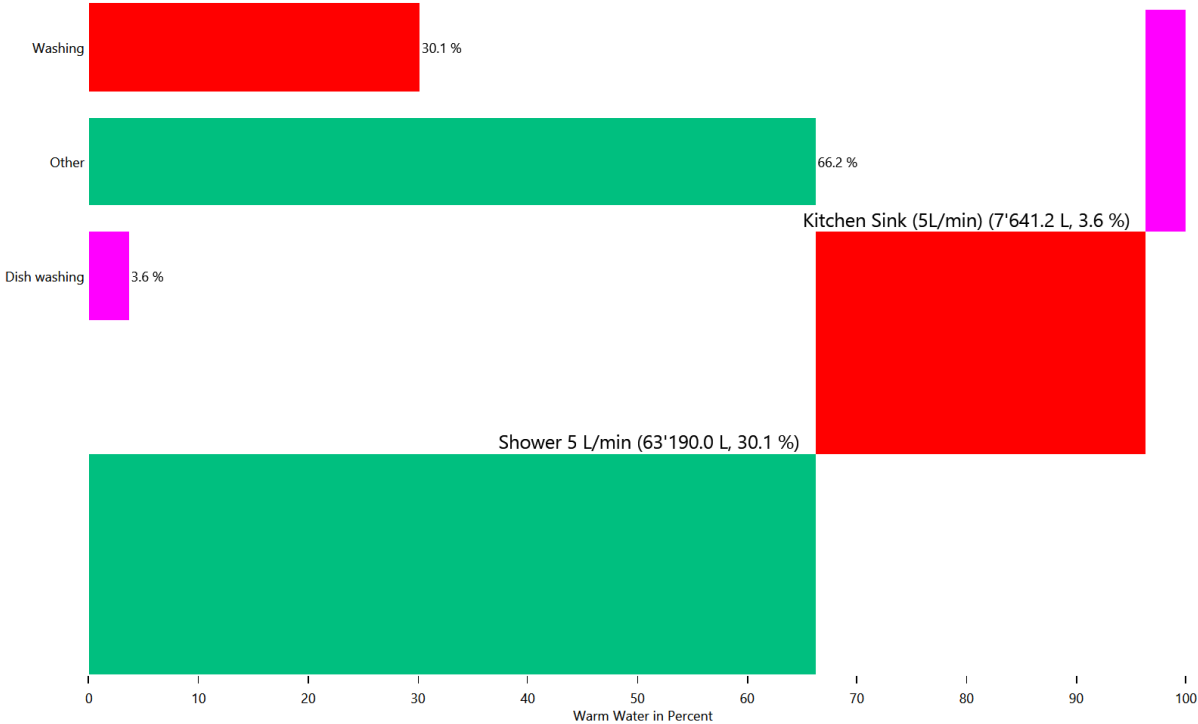
Electricity



Warm Water



Warm Water

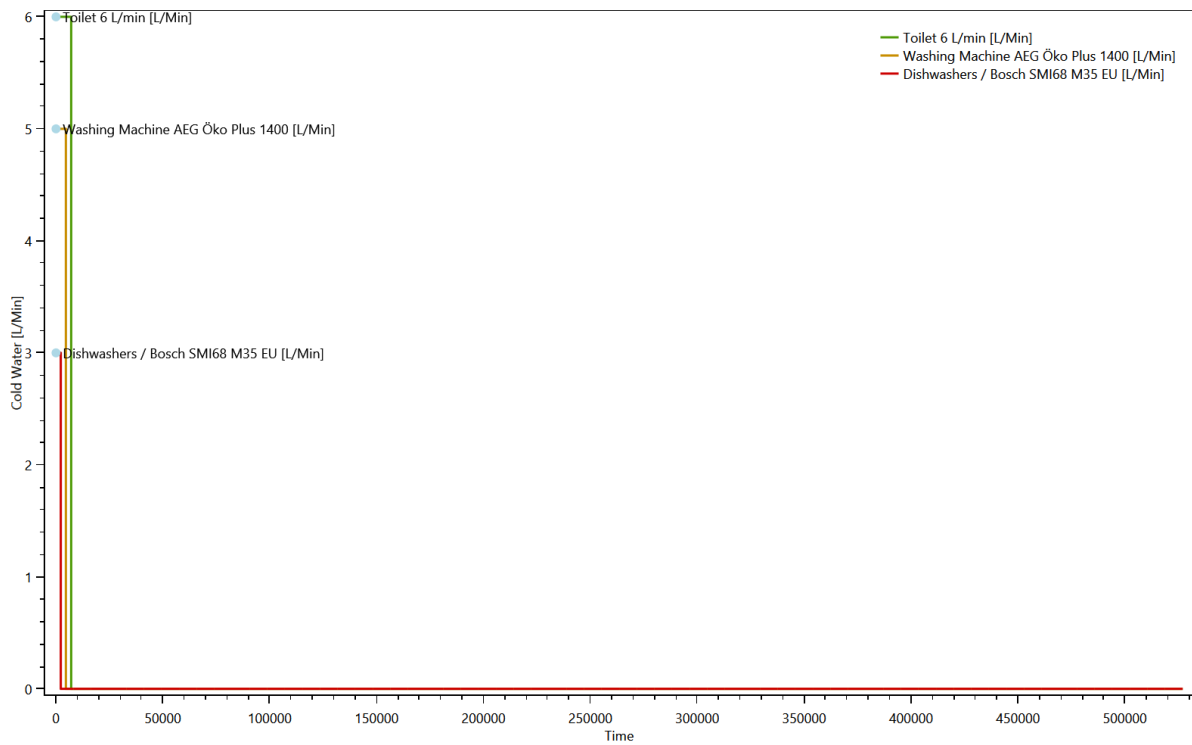


Duration curve for each device for each load type

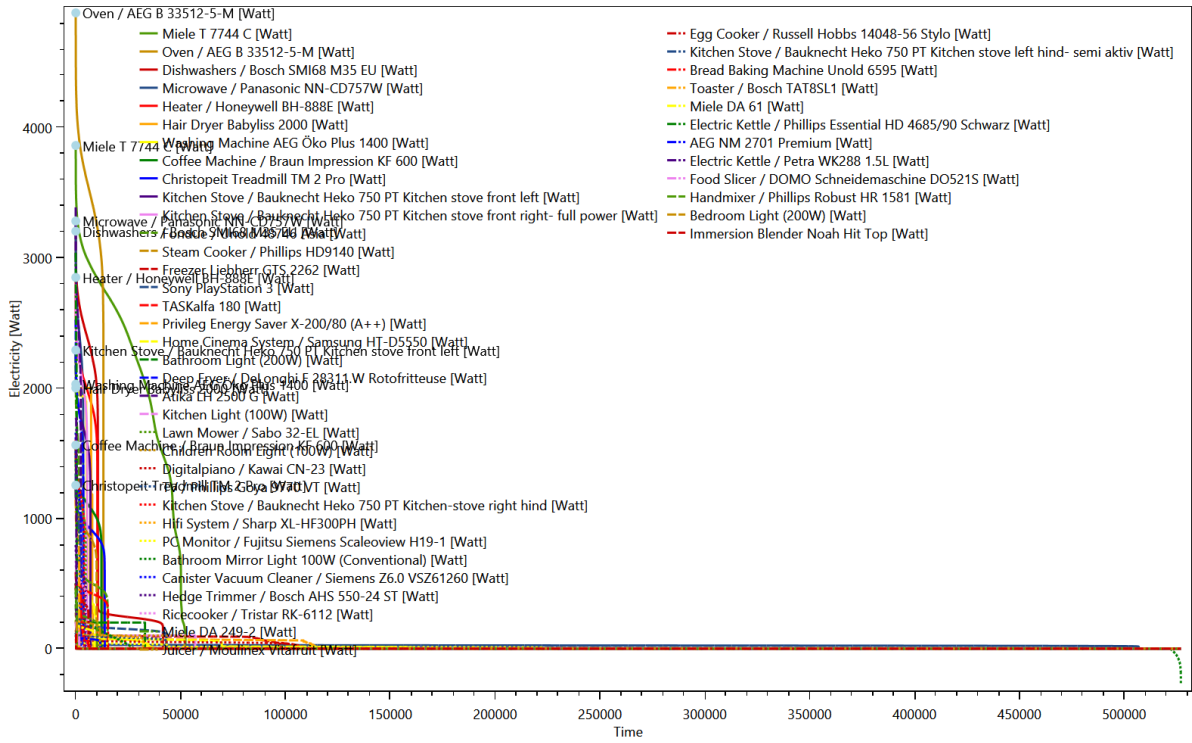
This is made from the files starting with: DeviceDurationCurves

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

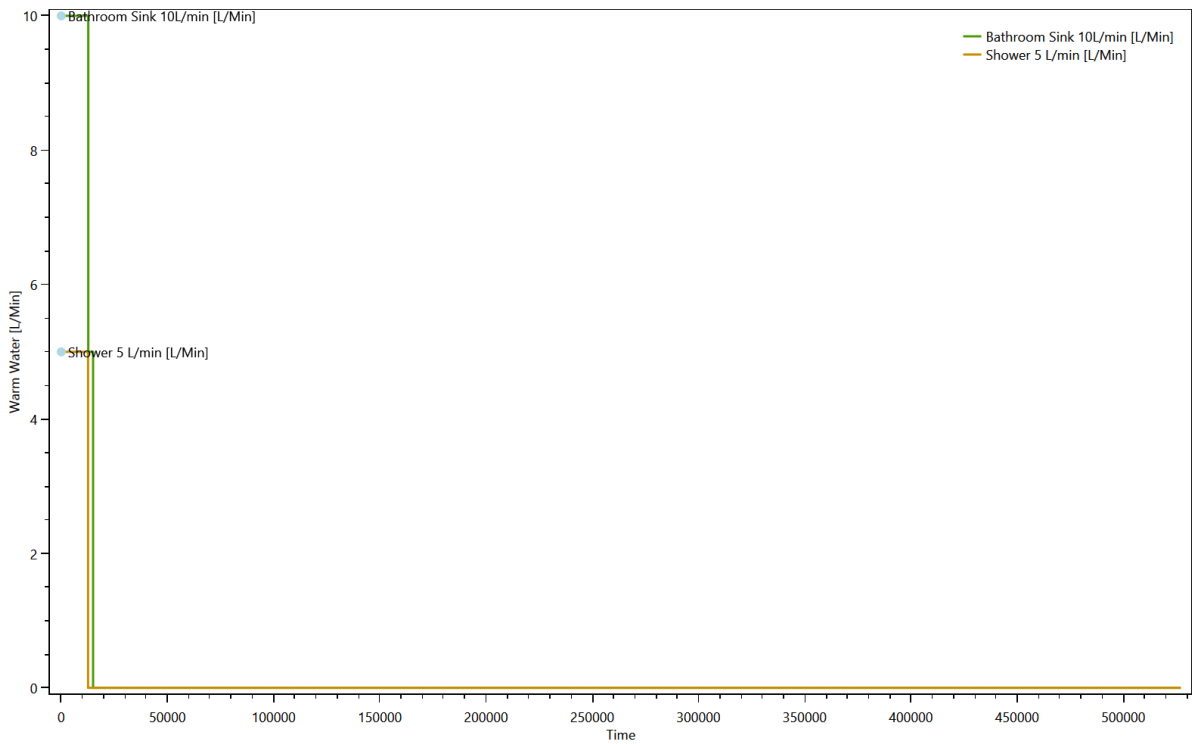
Cold Water



Electricity



Warm Water

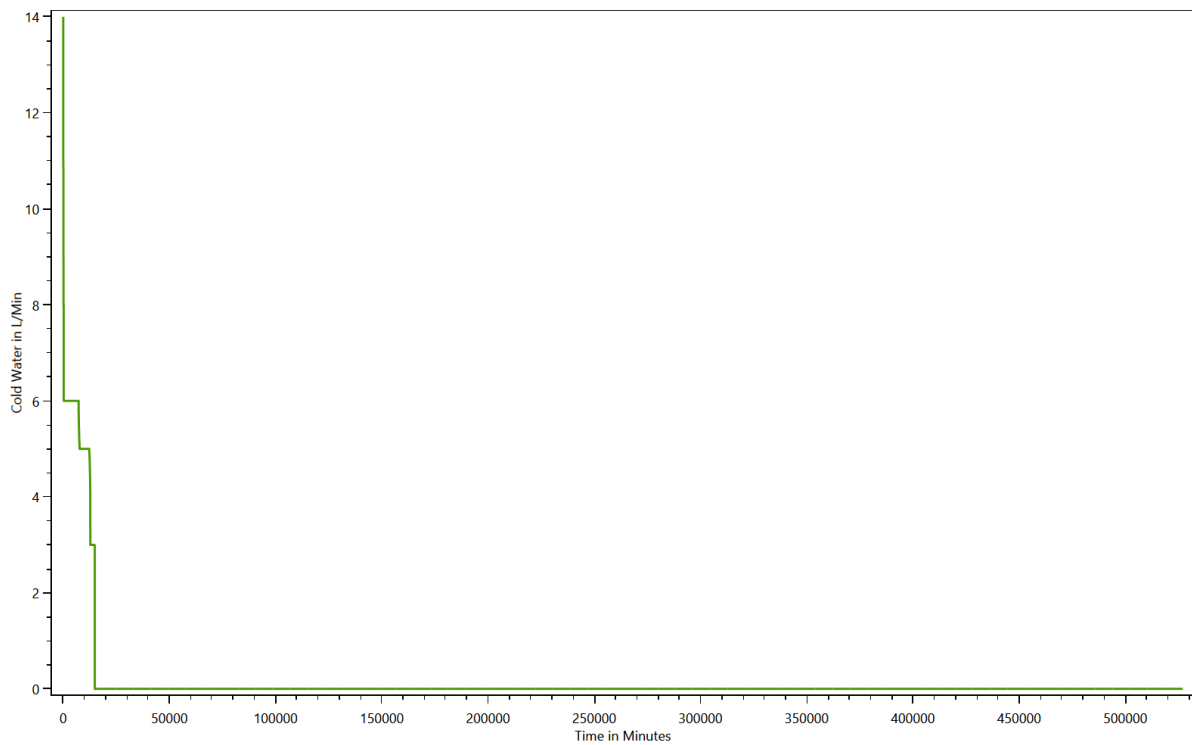


Duration curve for each load type

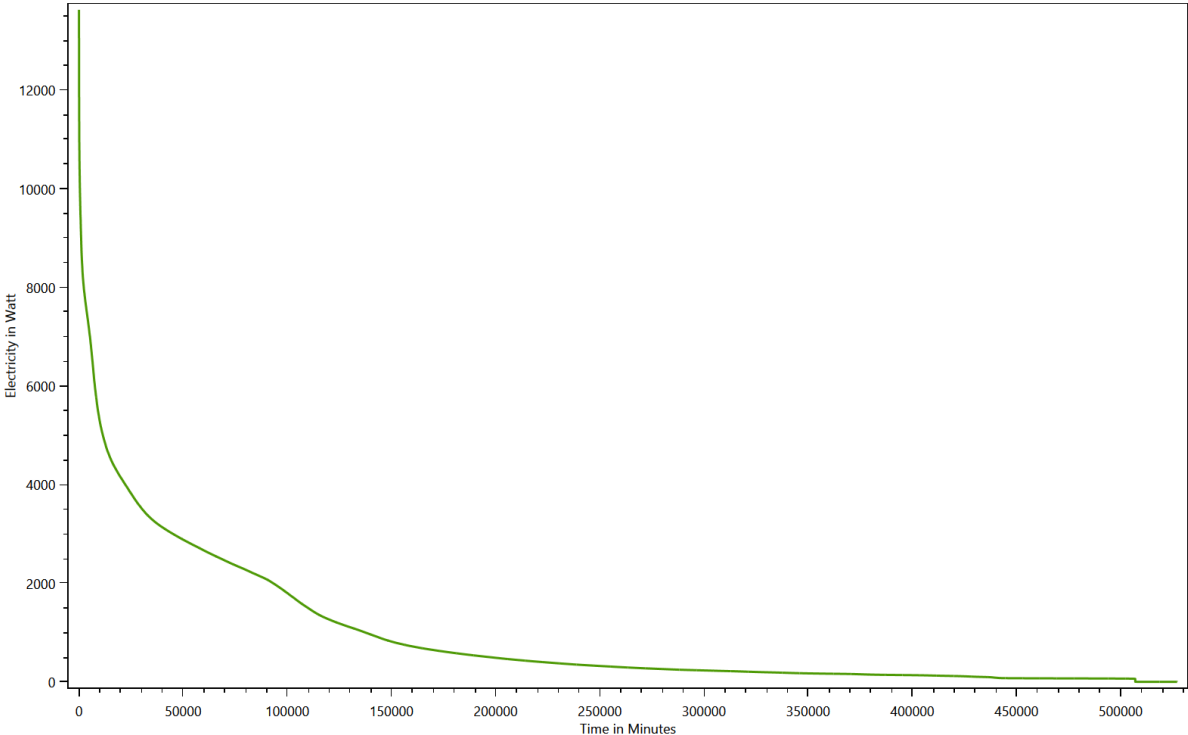
This is made from the files starting with: DurationCurve

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

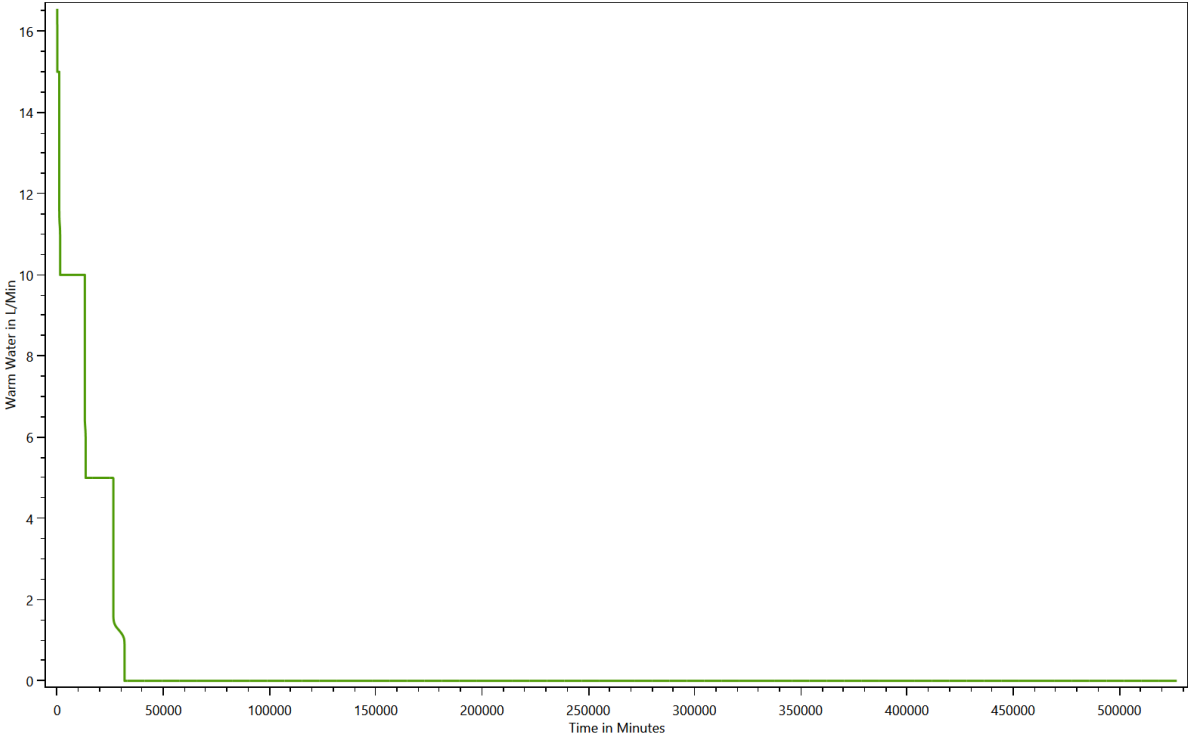
Cold Water



Electricity



Warm Water

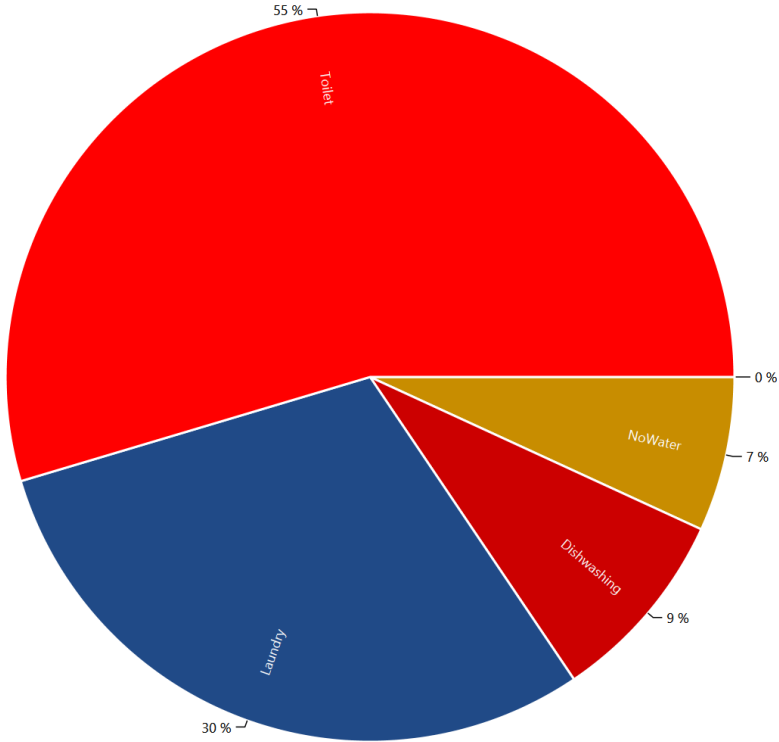


Grouped energy use for each load type for each device

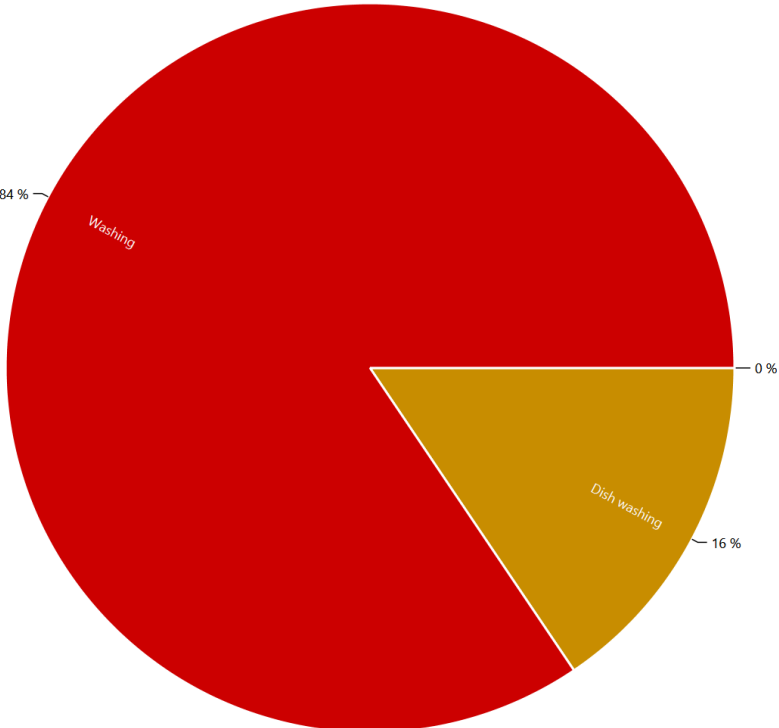
This is made from the files starting with: DeviceTaggingSet

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

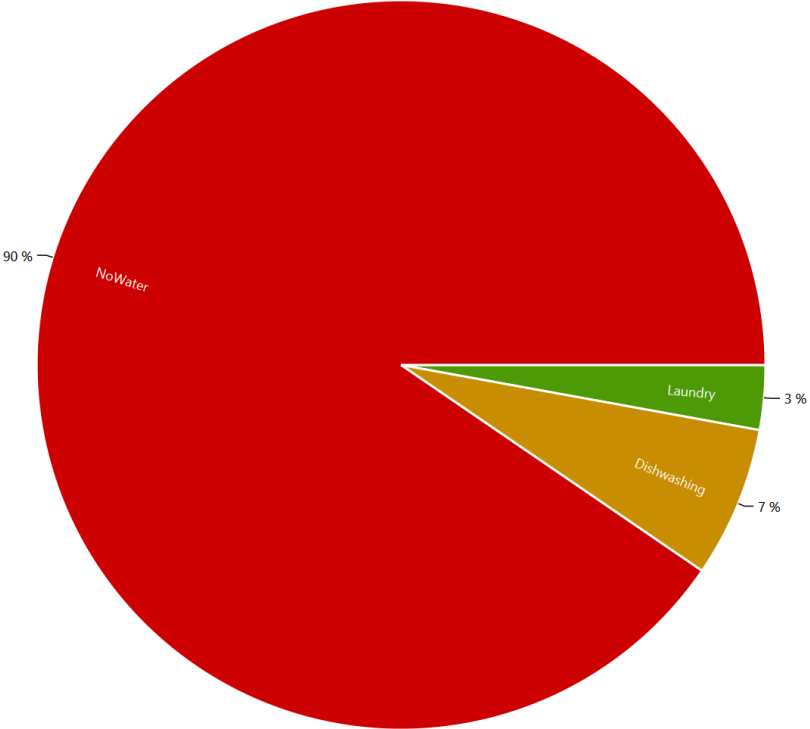
HH0 - Destatis Water Usage Statistics - Cold Water



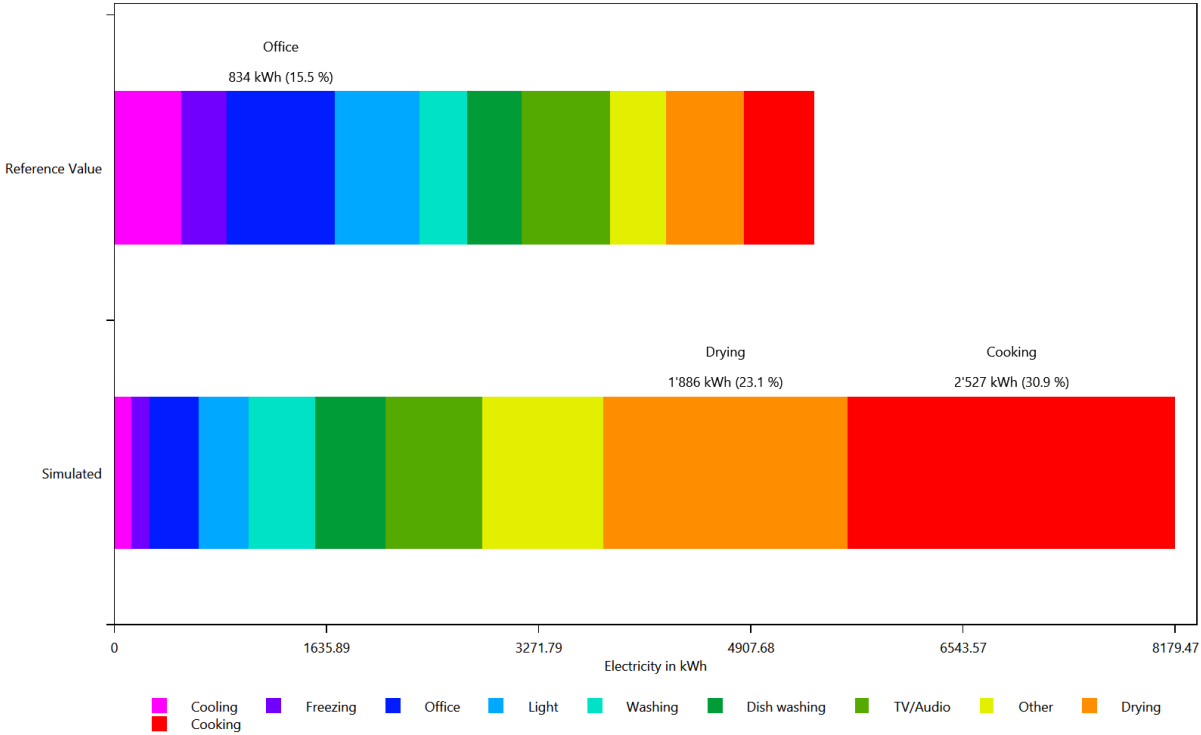
HH0 - Energieagentur - Cold Water



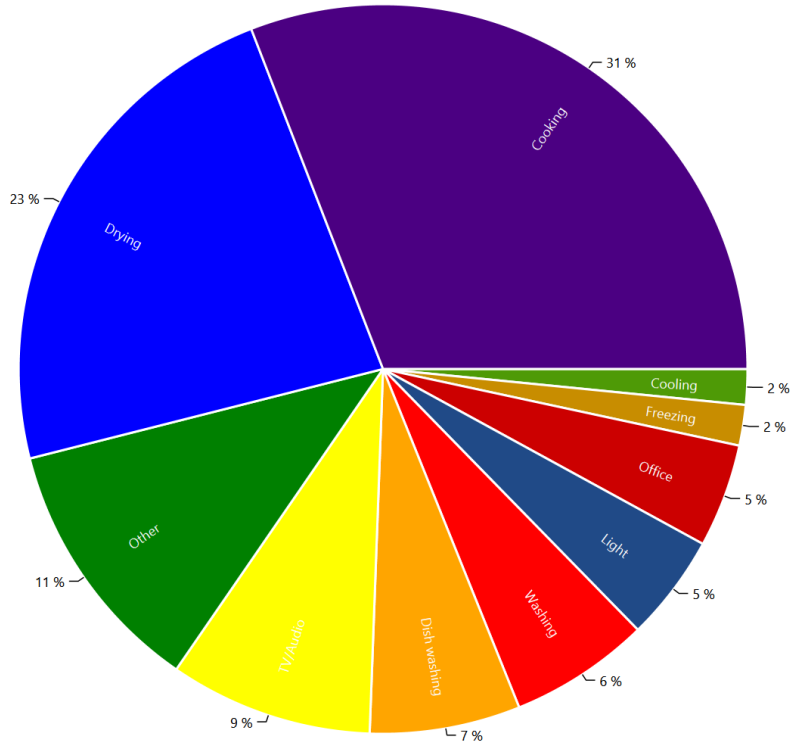
HH0 - Destatis Water Usage Statistics - Electricity



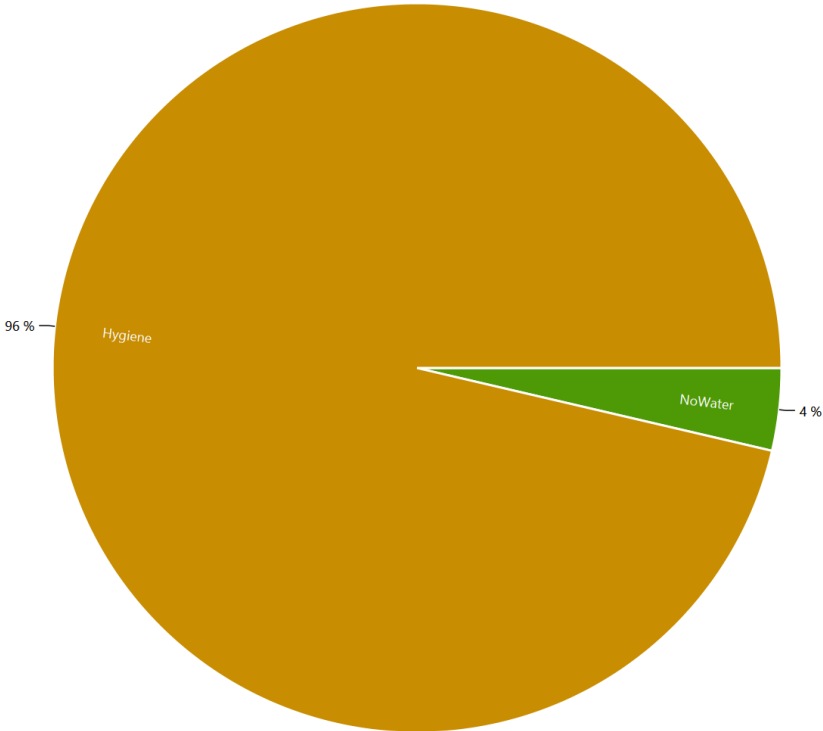
HH0 - Energieagentur - Electricity



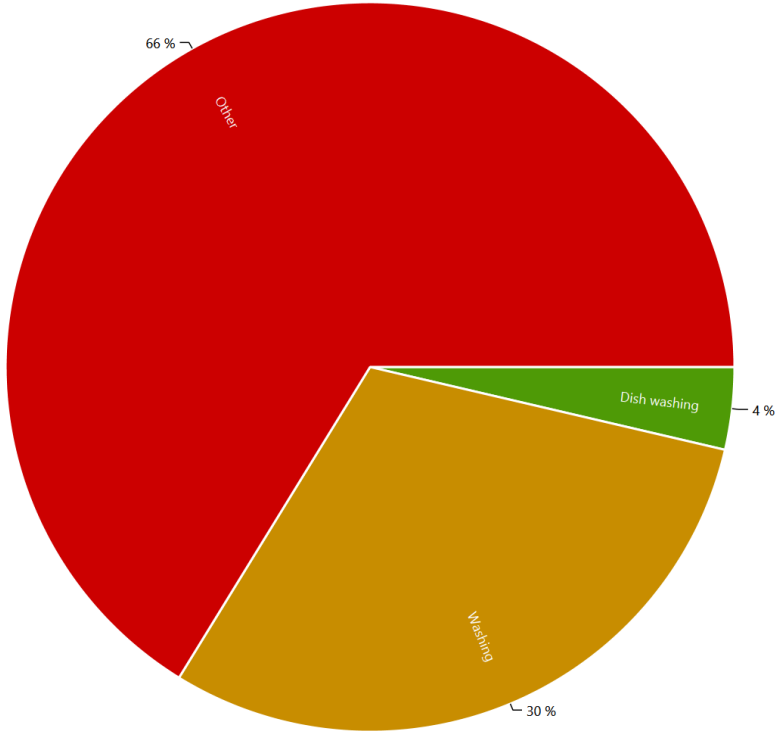
HH0 - Energieagentur - Electricity



HH0 - Destatis Water Usage Statistics - Warm Water



HH0 - Energieagentur - Warm Water

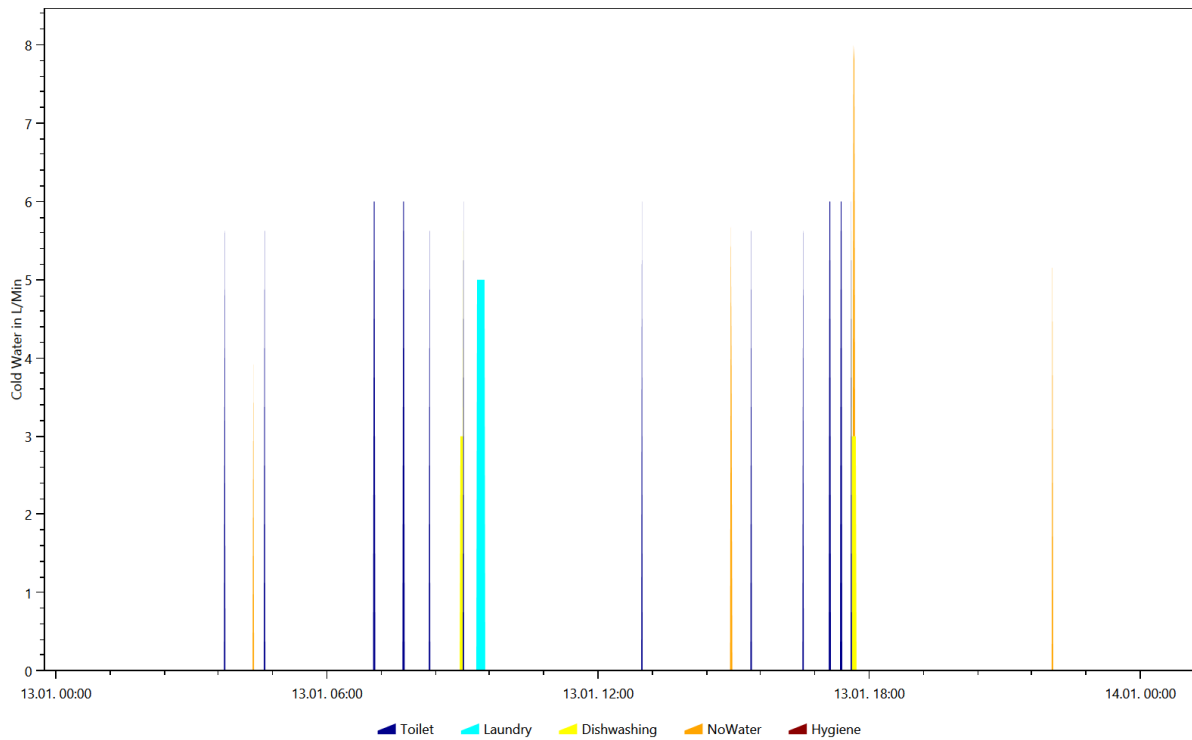


Example of the device profiles for each load type

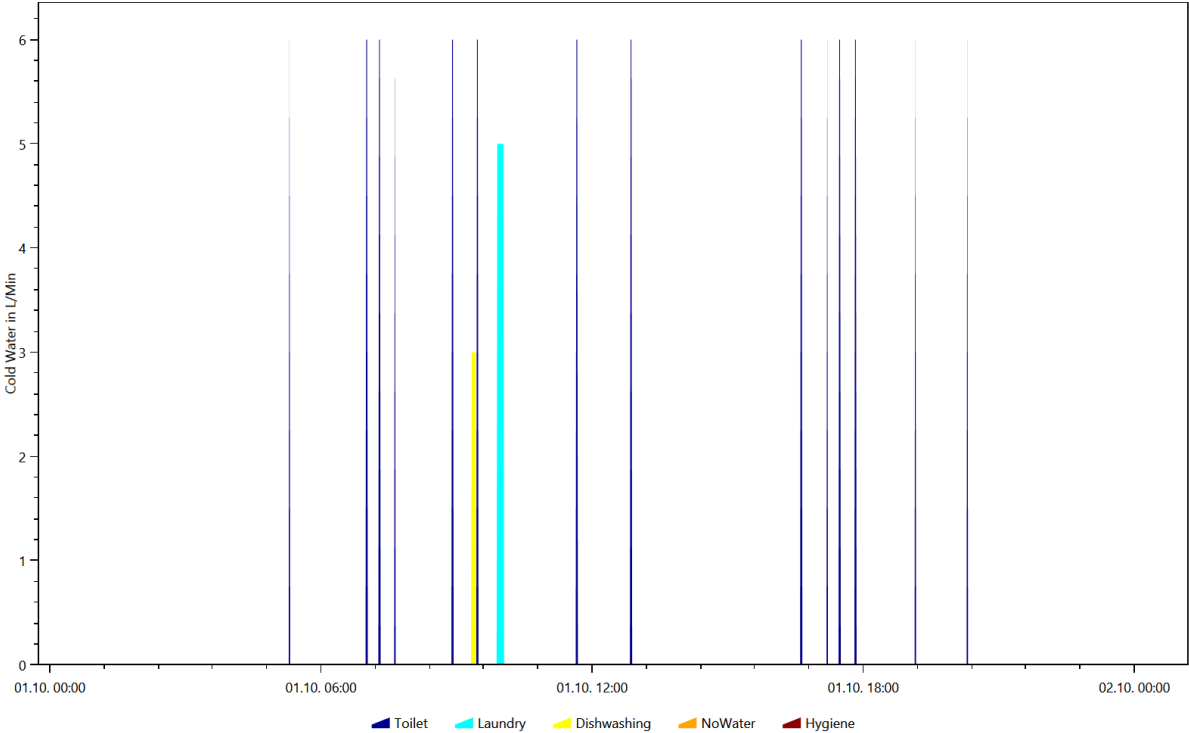
This is made from the files starting with: DeviceProfiles

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

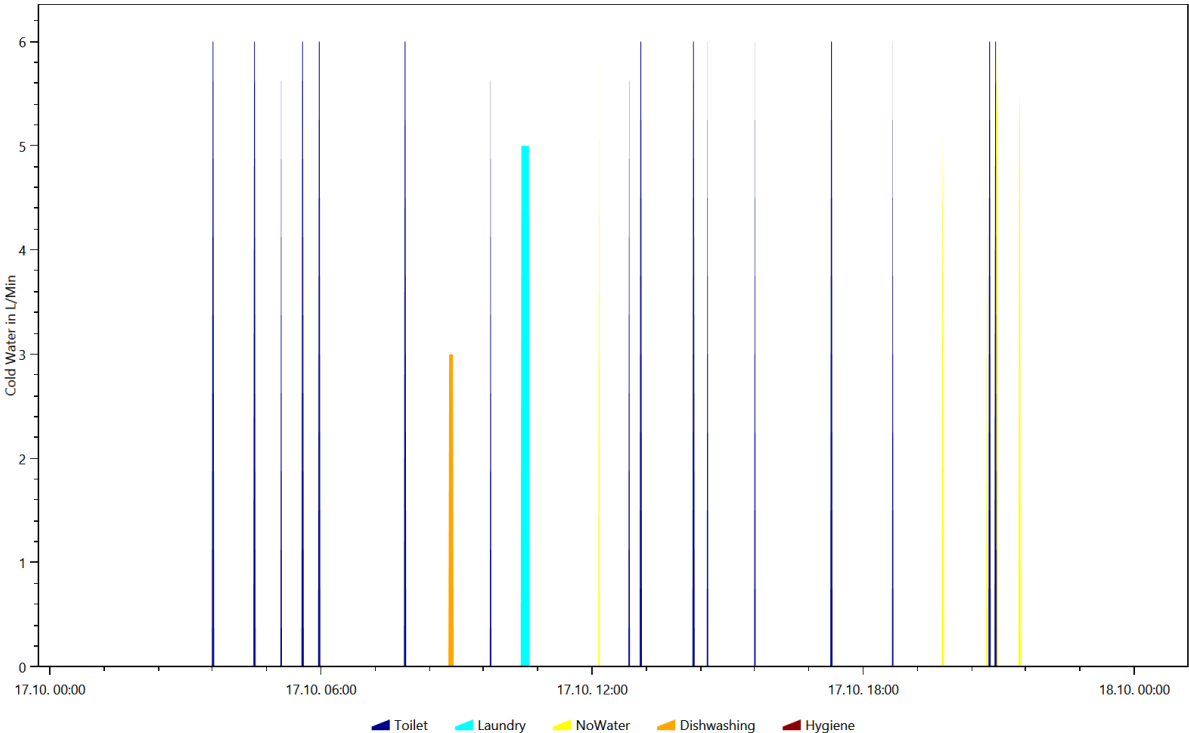
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.1.13



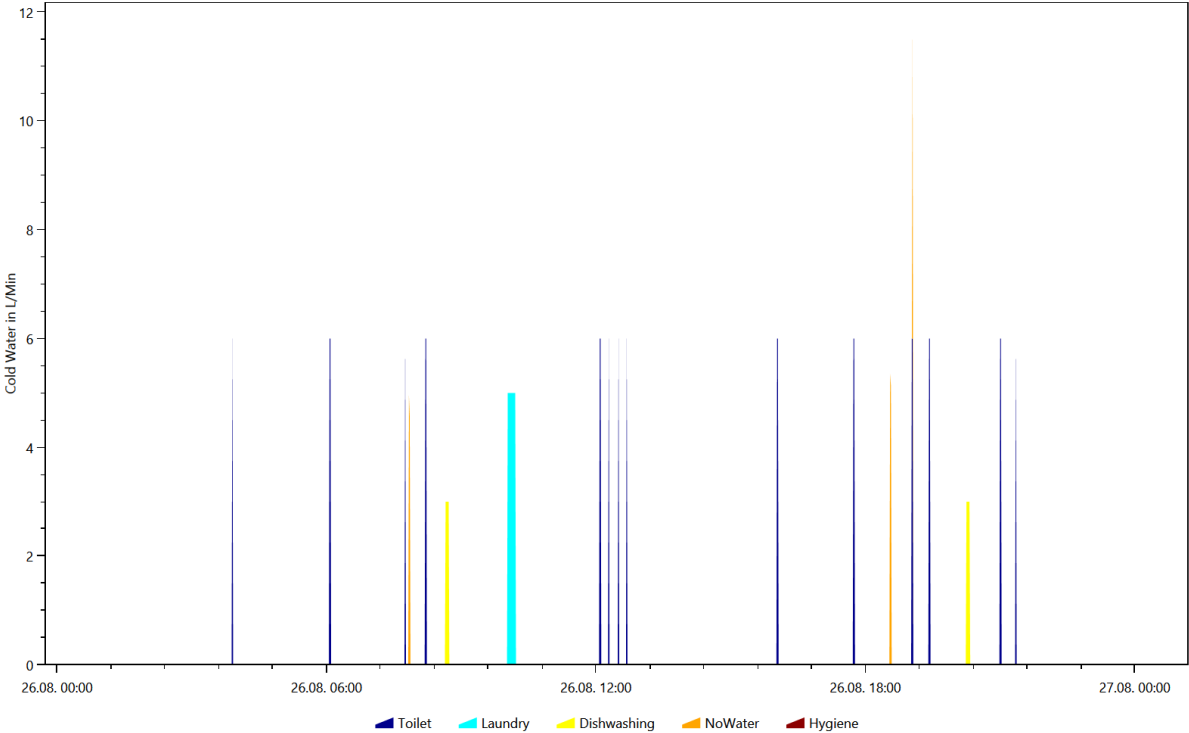
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.10.1



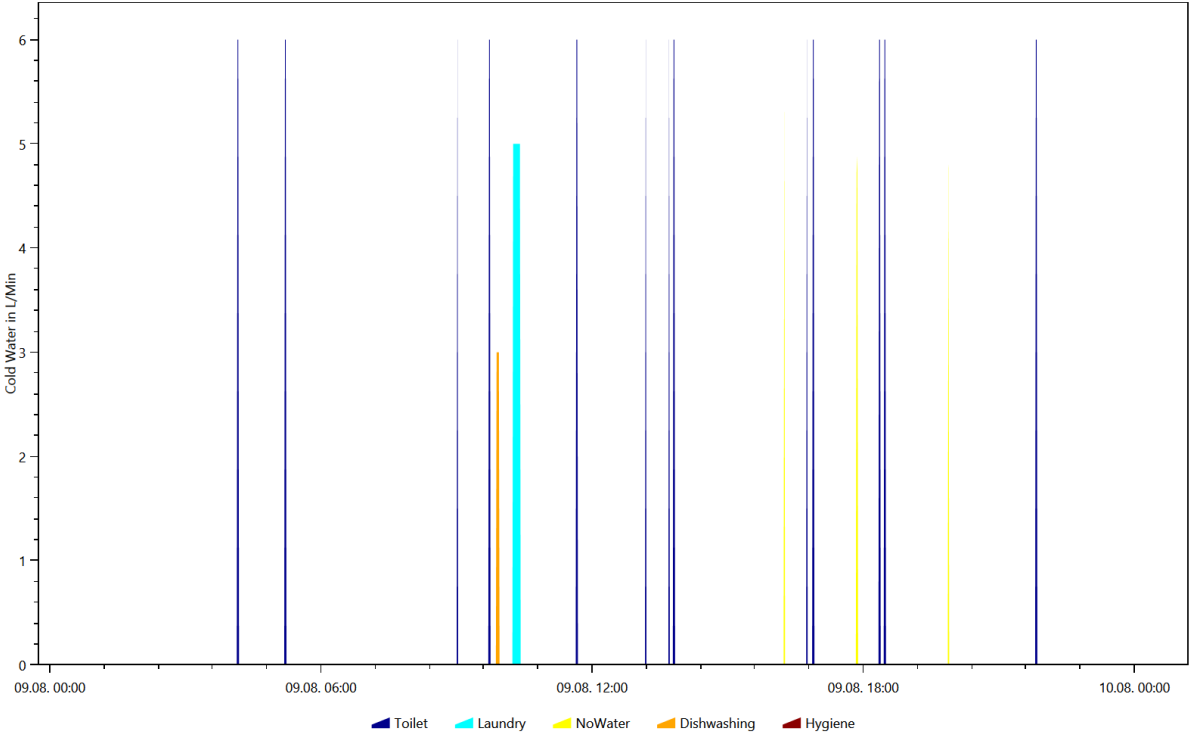
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.10.17



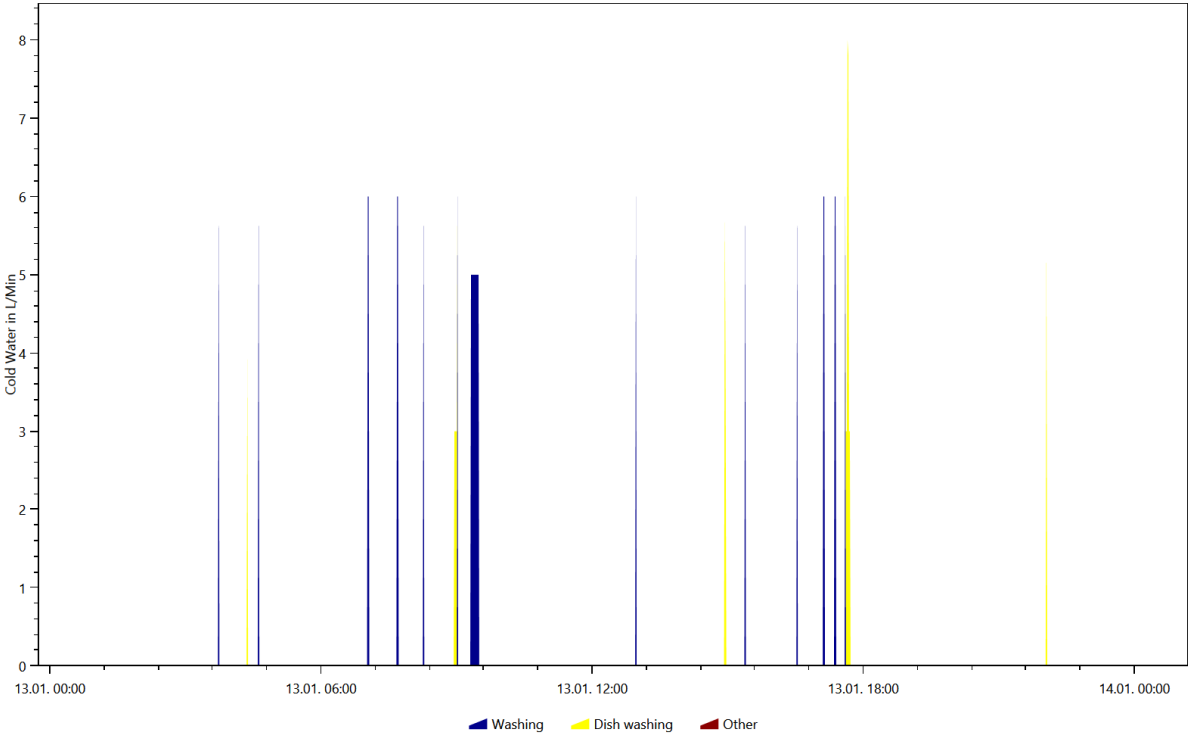
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.8.26



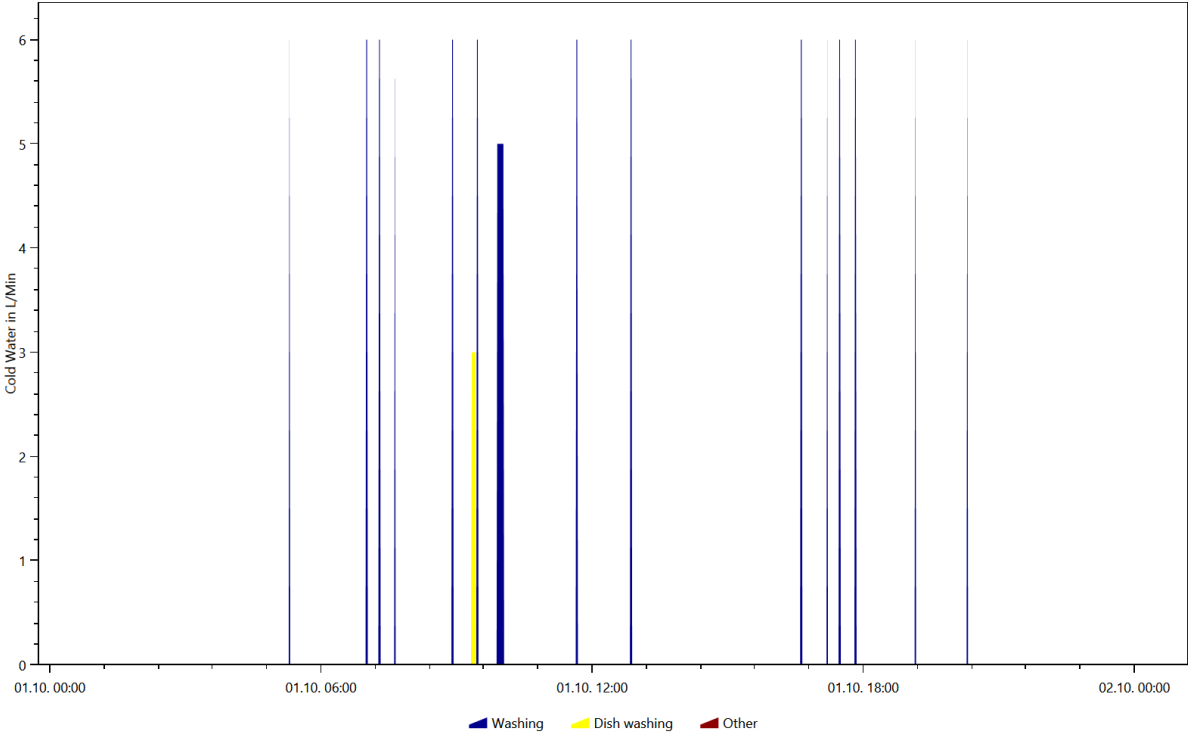
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.8.9



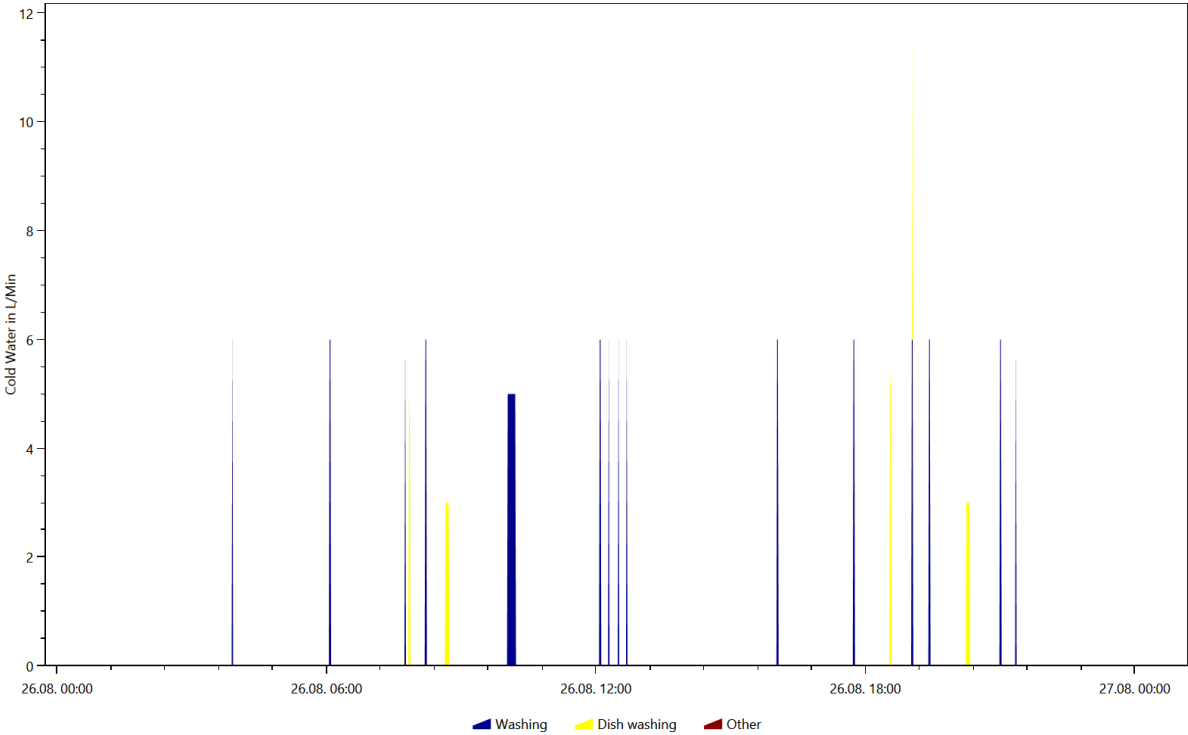
Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.1.13



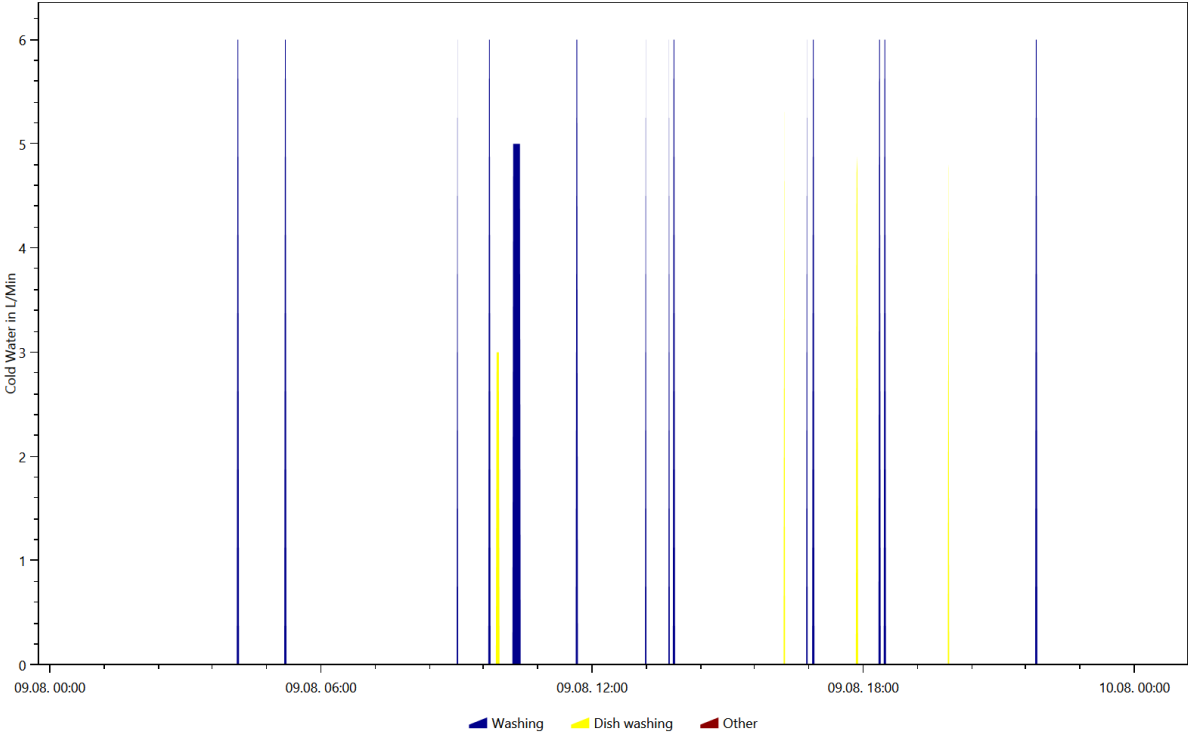
Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.10.1



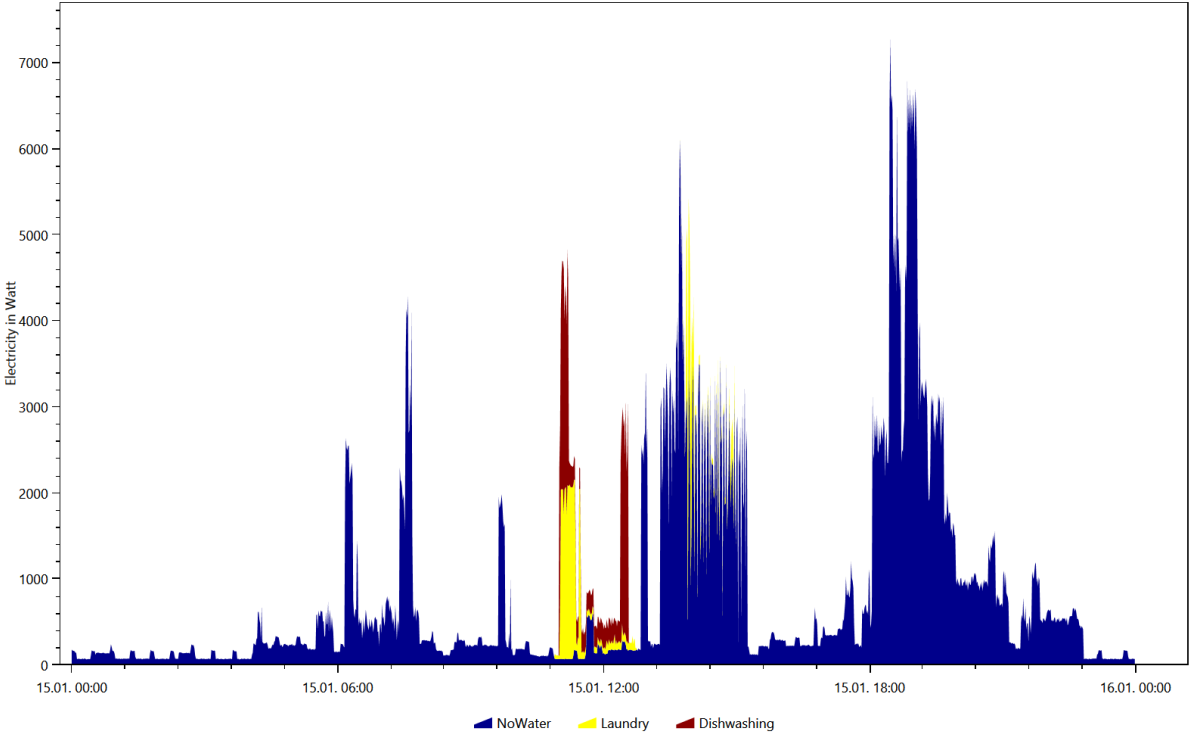
Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.8.26



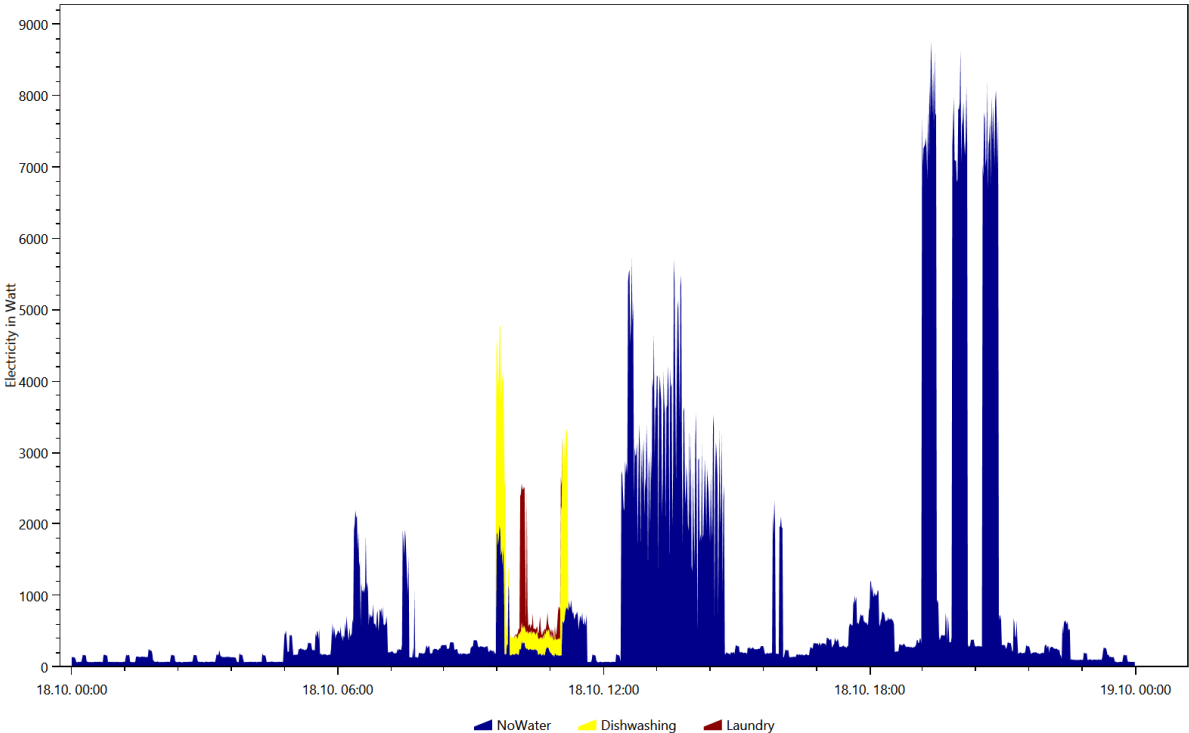
Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.8.9



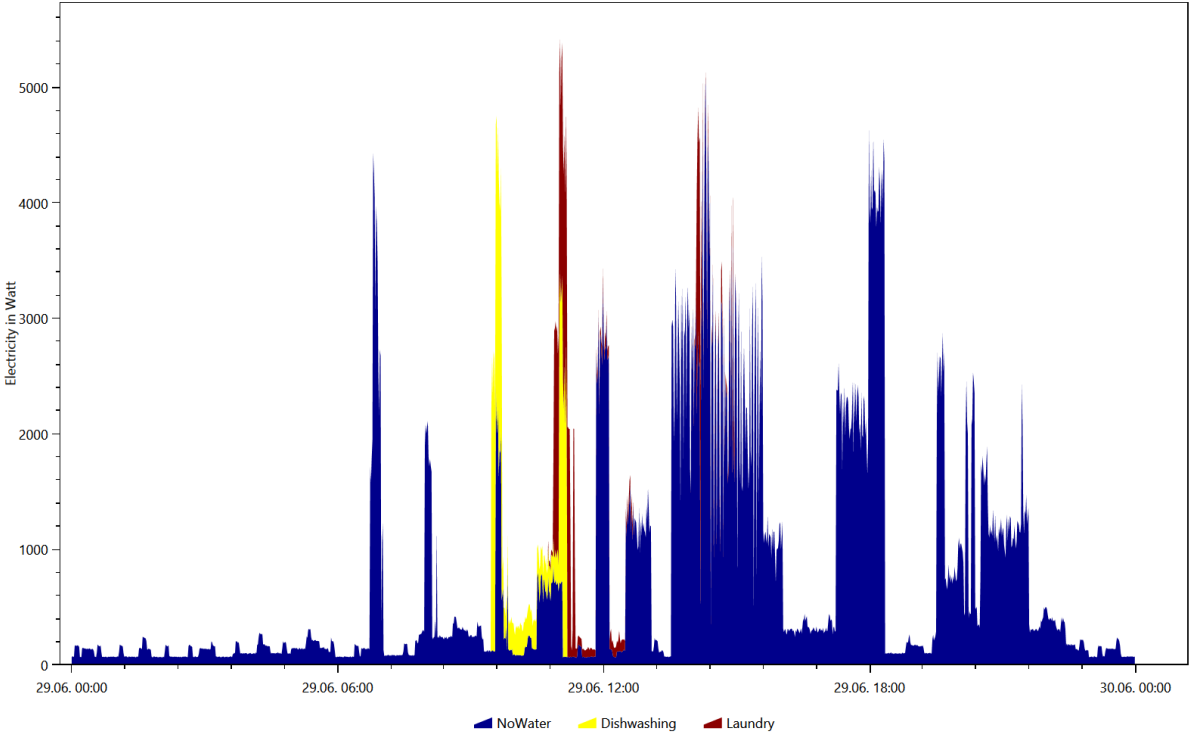
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.1.15



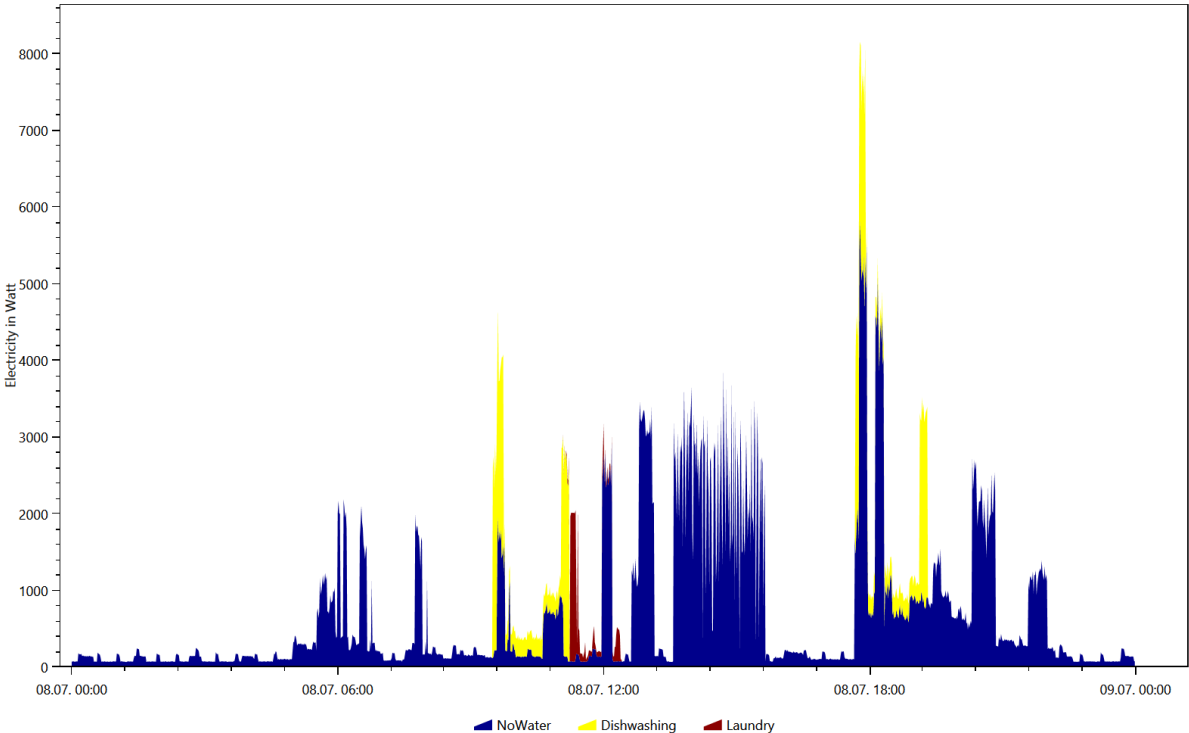
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.10.18



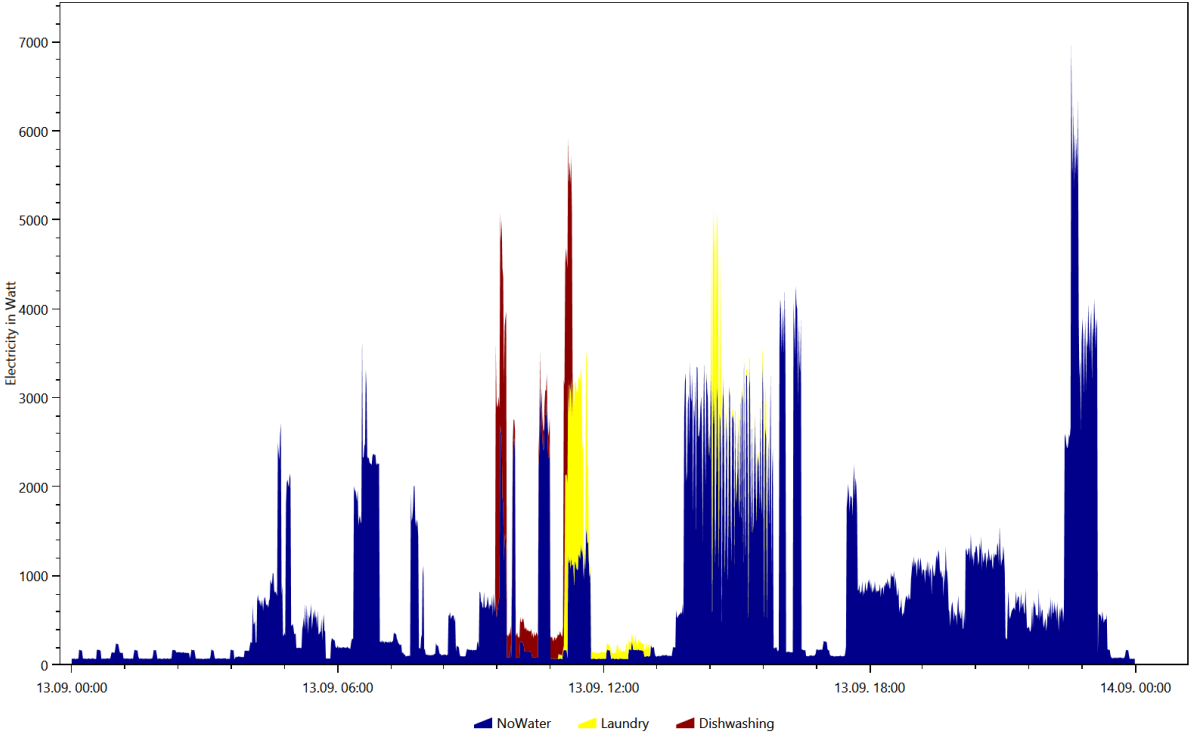
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.6.29



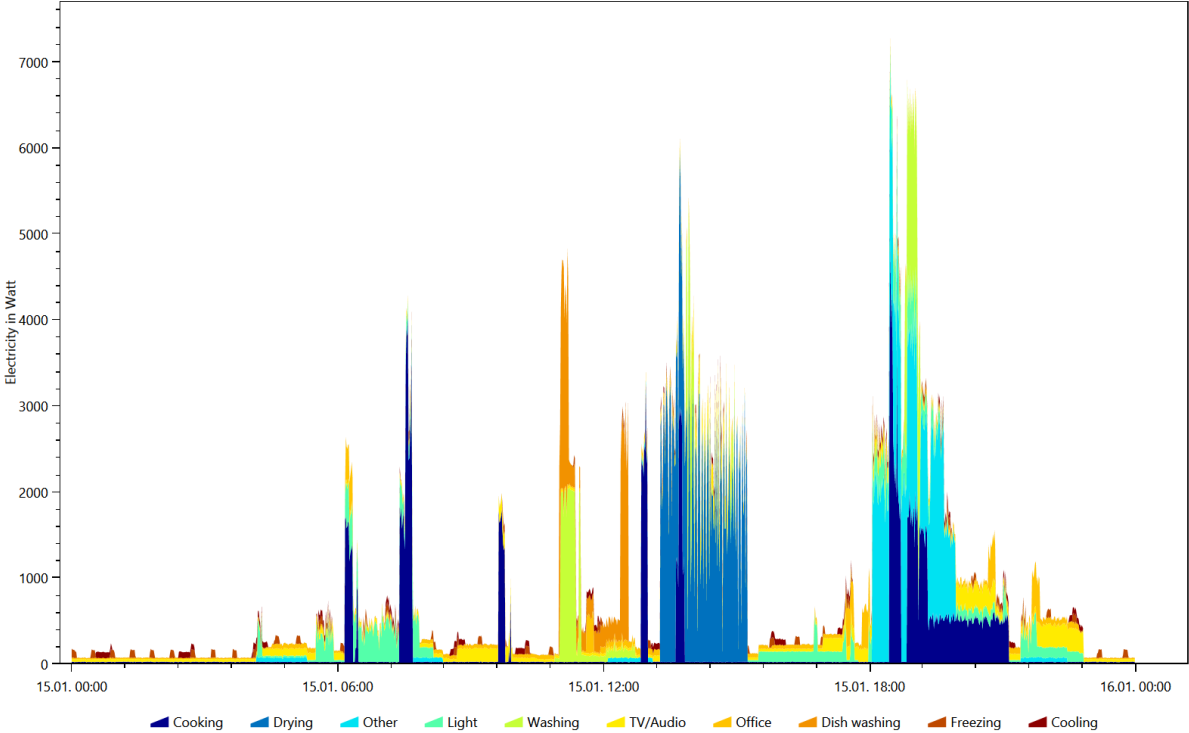
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.7.8



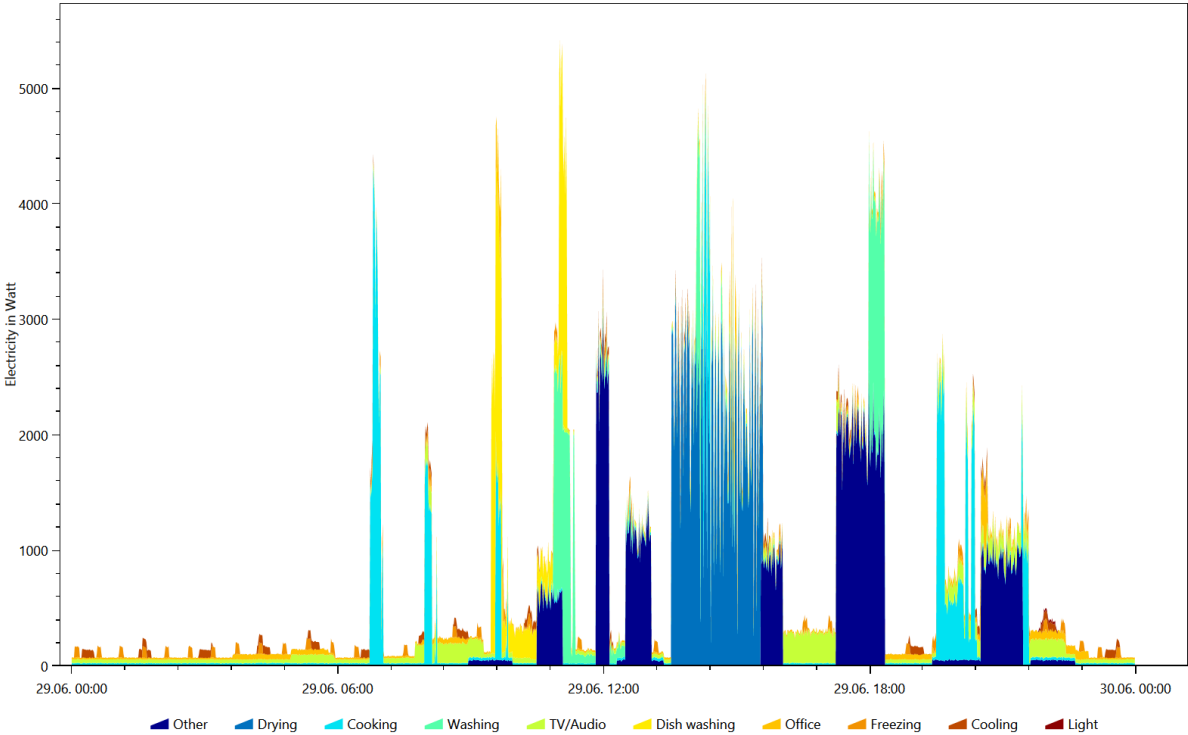
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.9.13



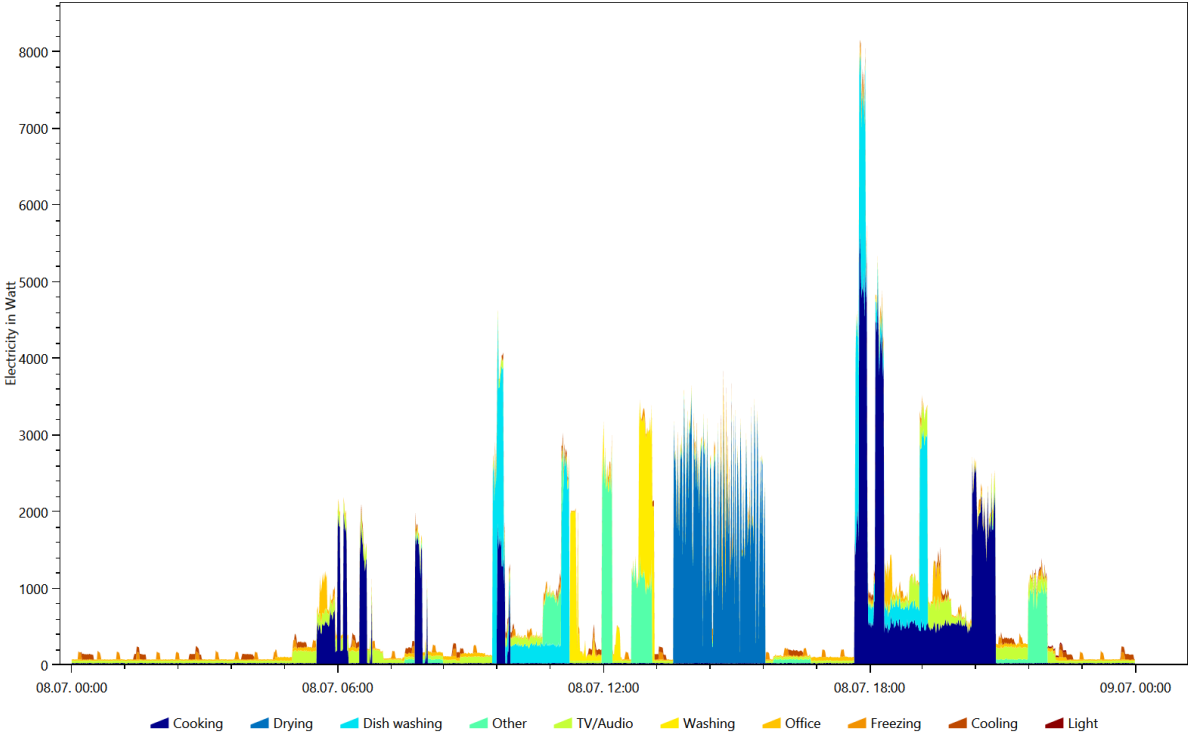
Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.1.15



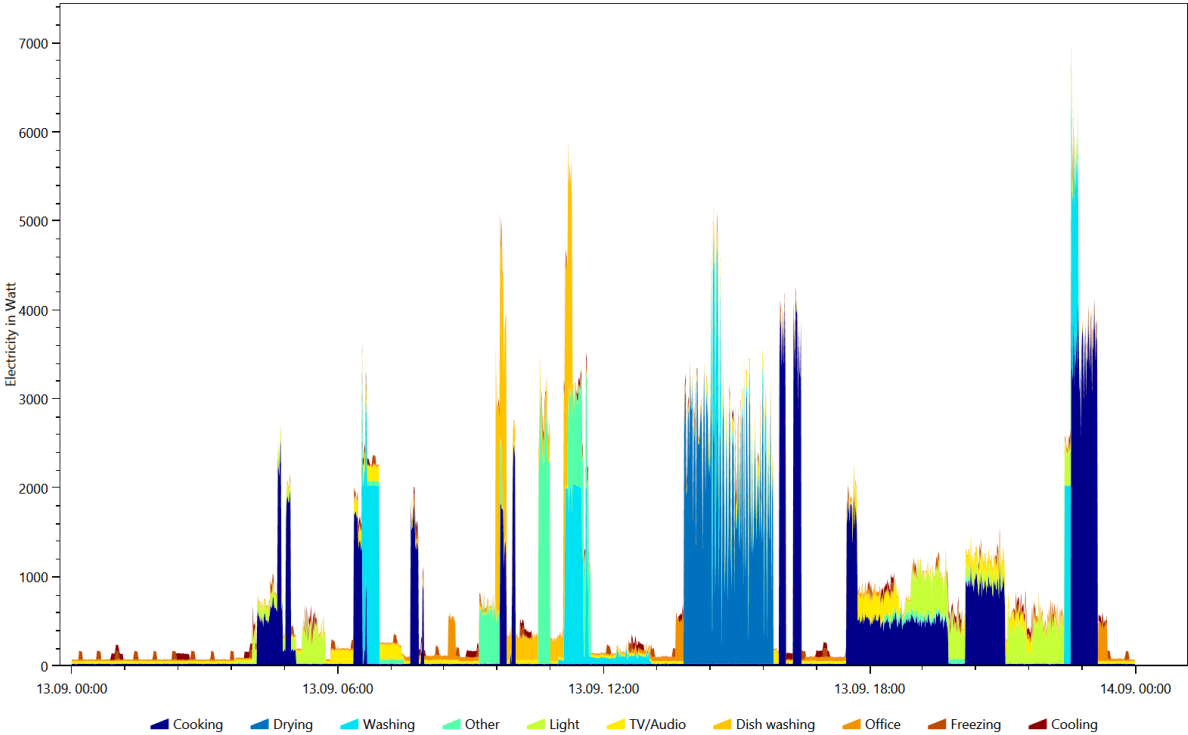
Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.6.29



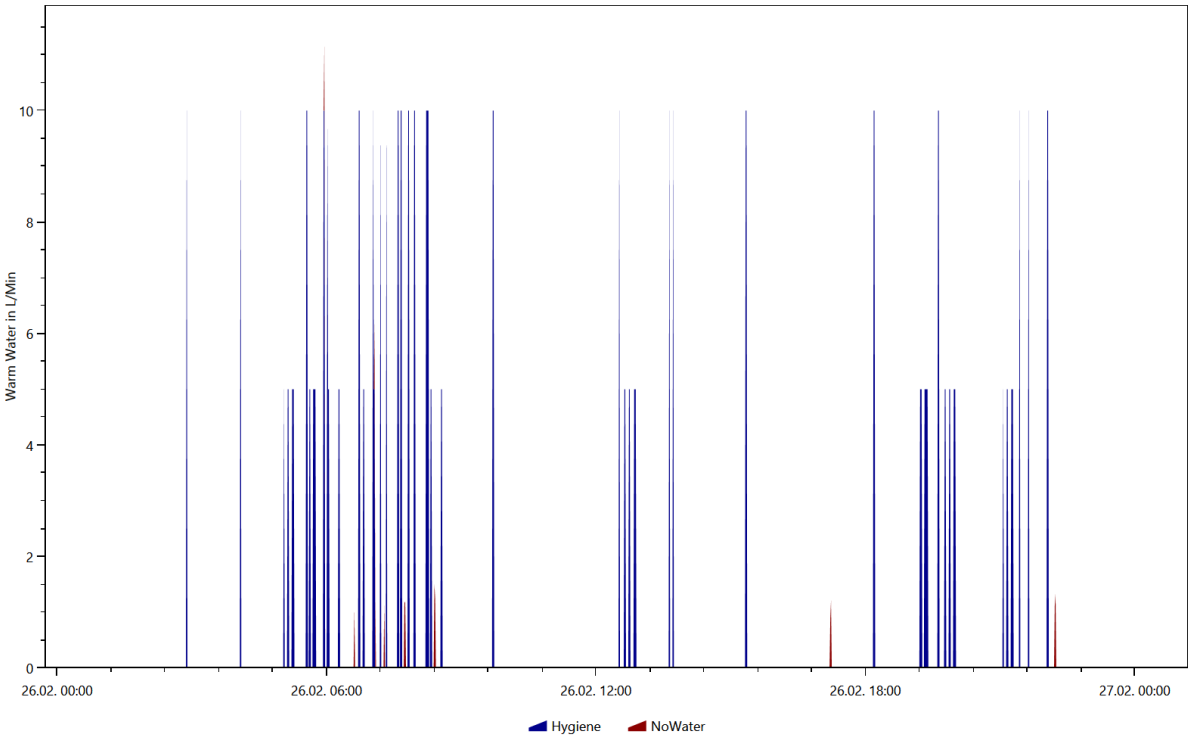
Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.7.8



Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.9.13



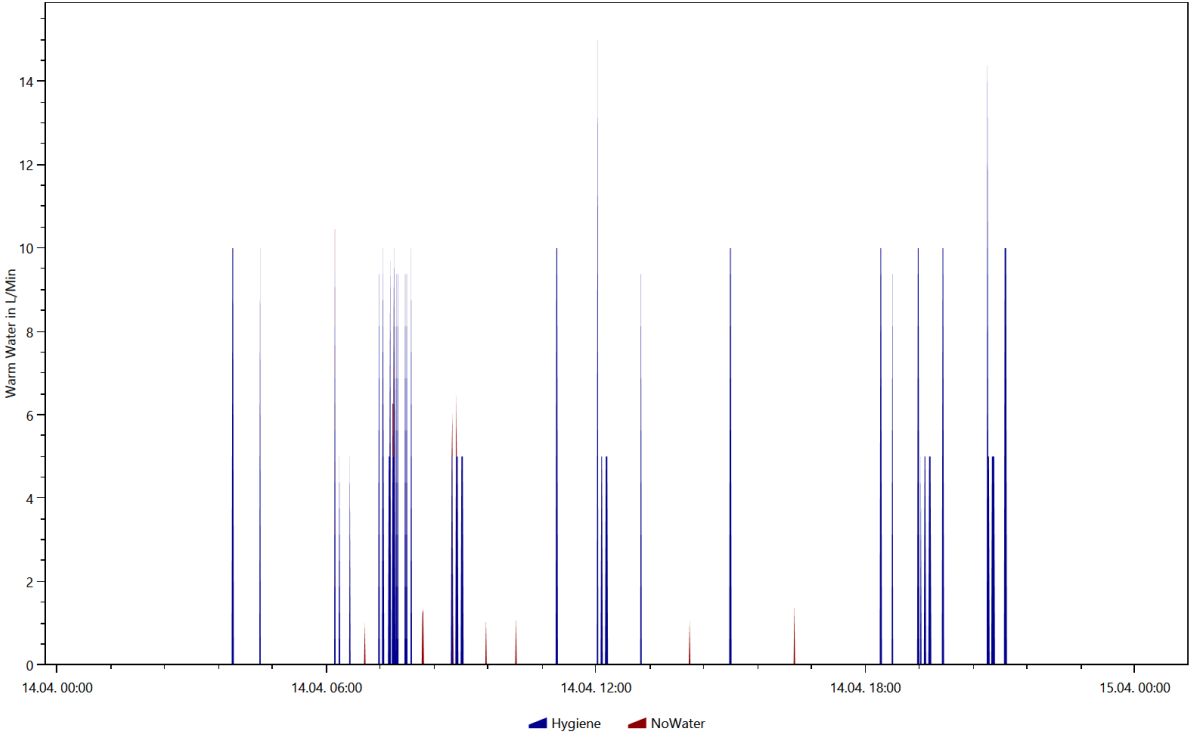
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.2.26



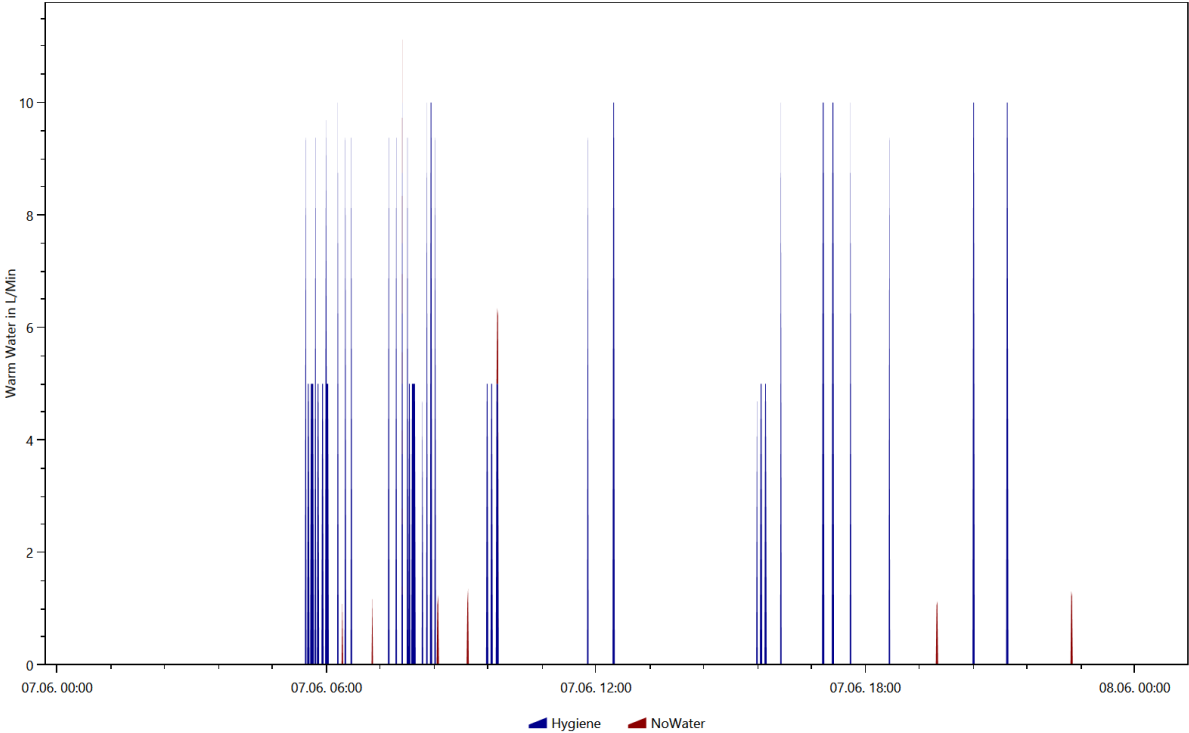
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.3.1



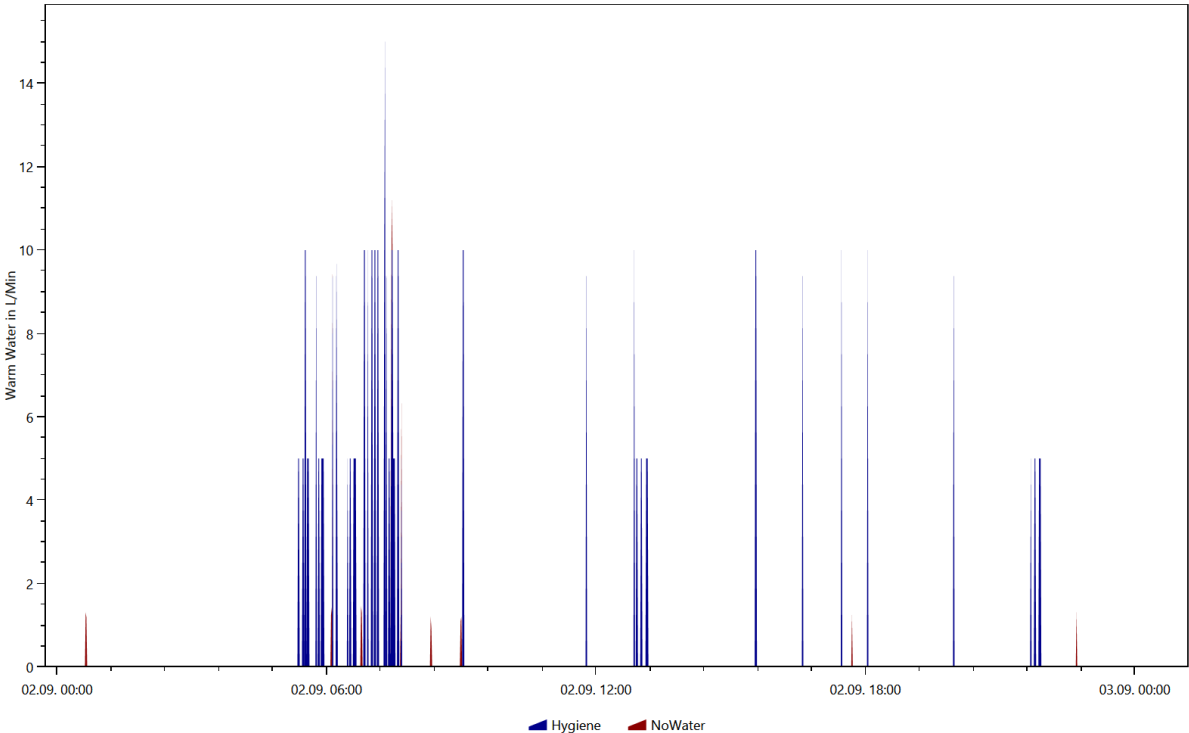
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.4.14



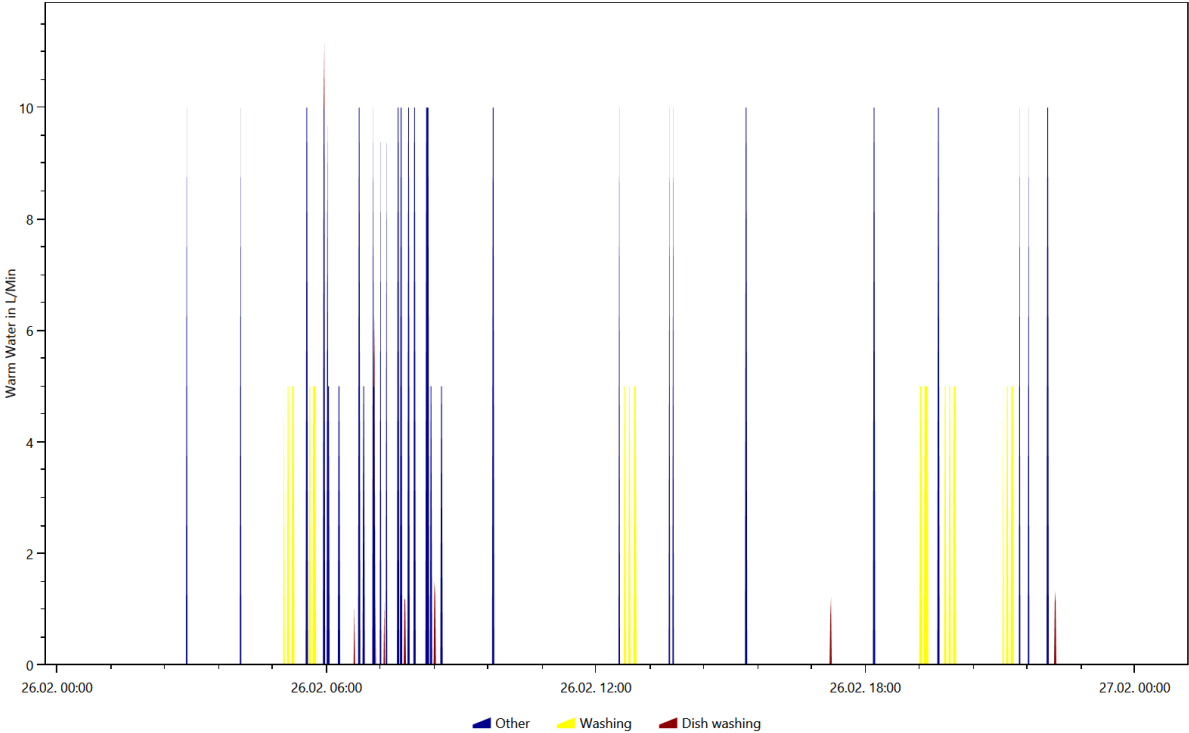
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.6.7



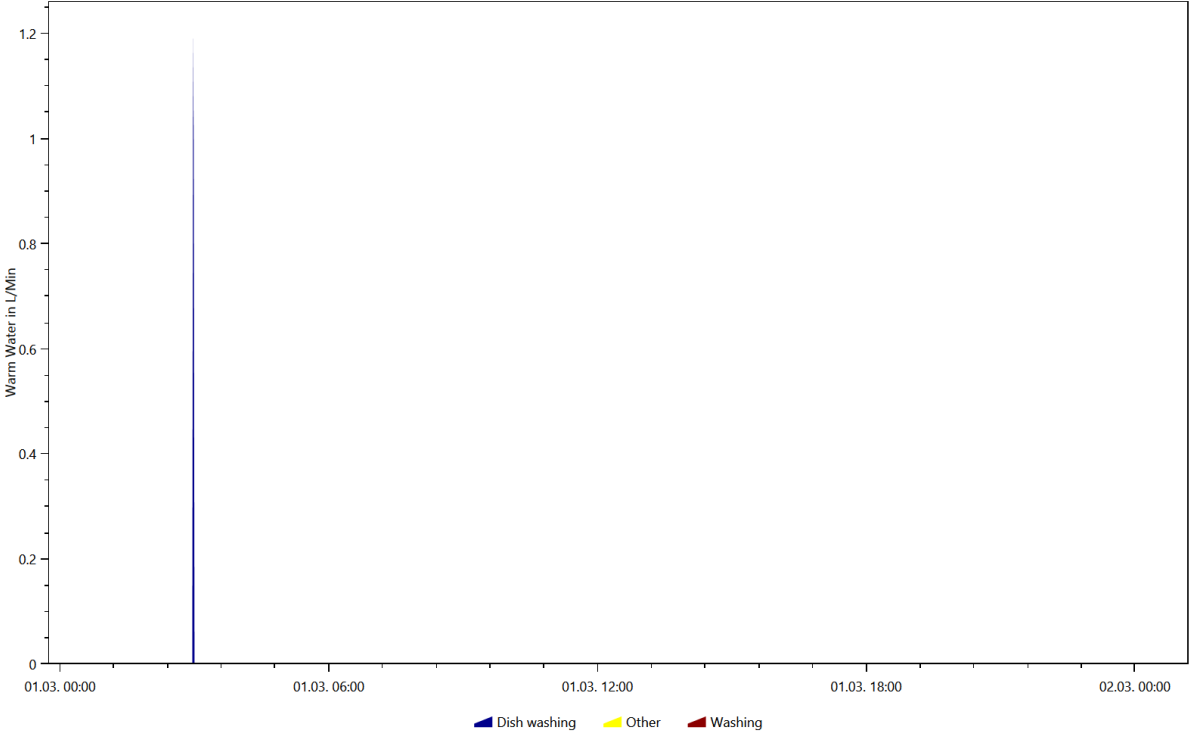
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.9.2



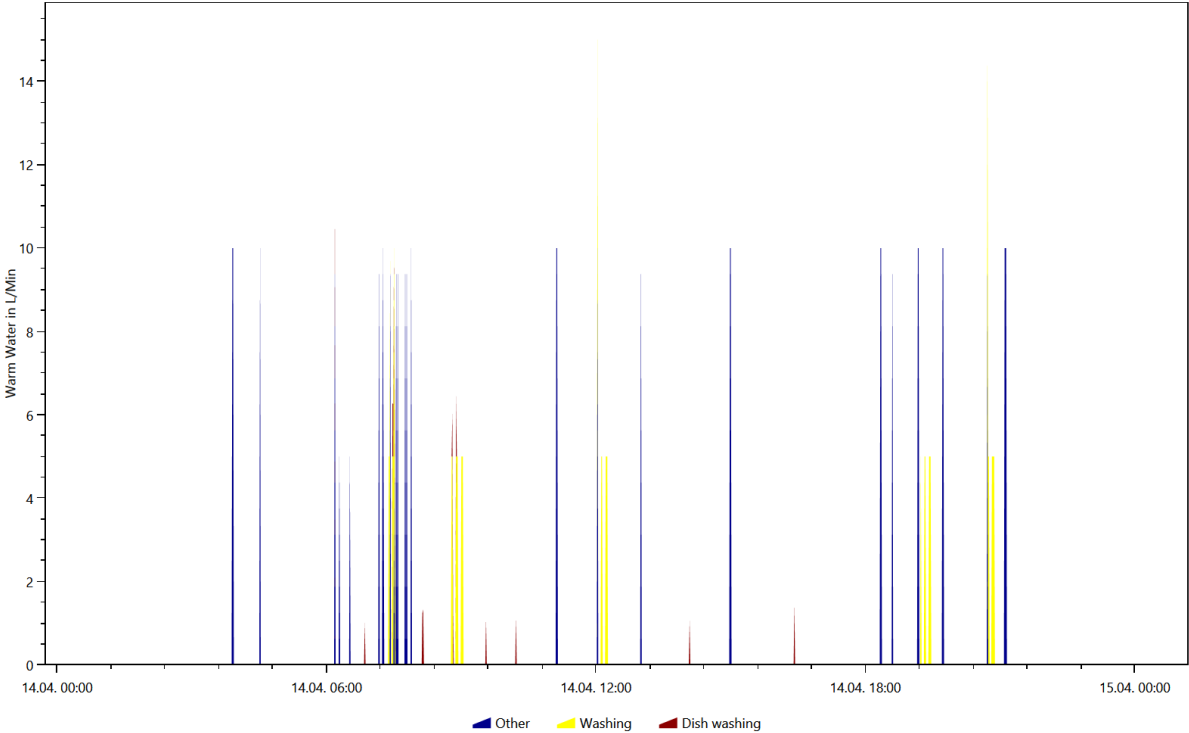
Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.2.26



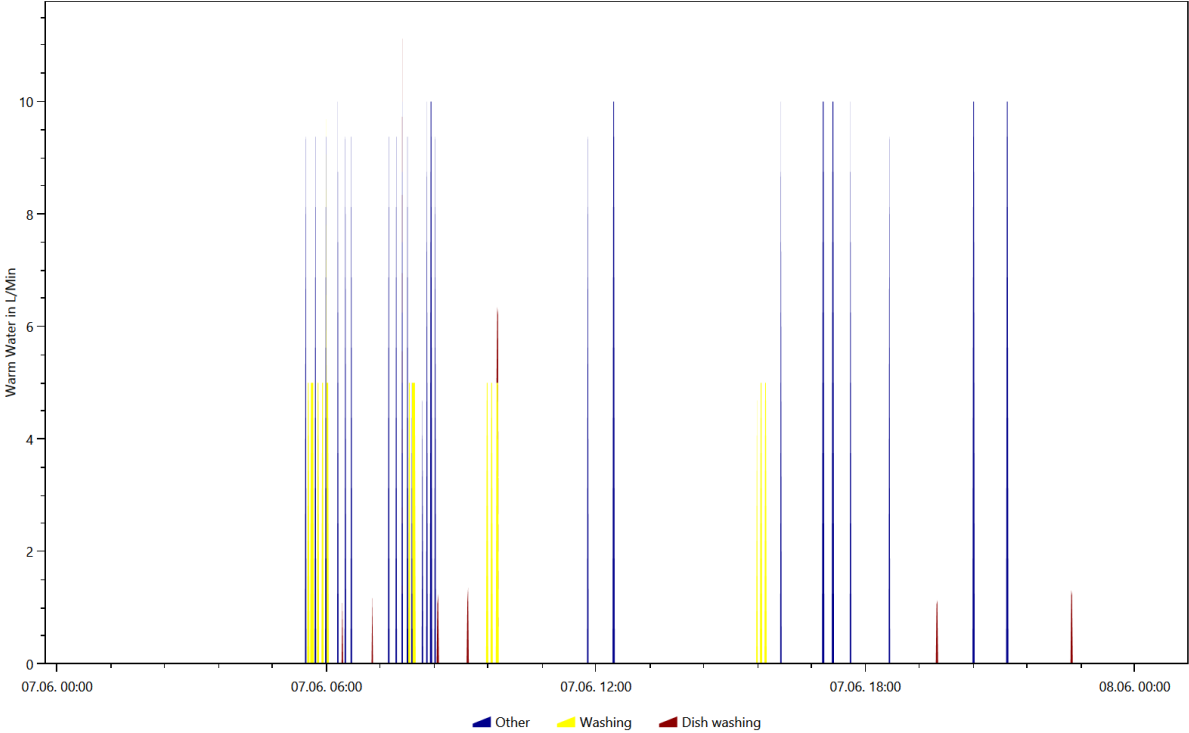
Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.3.1



Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.4.14



Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.6.7

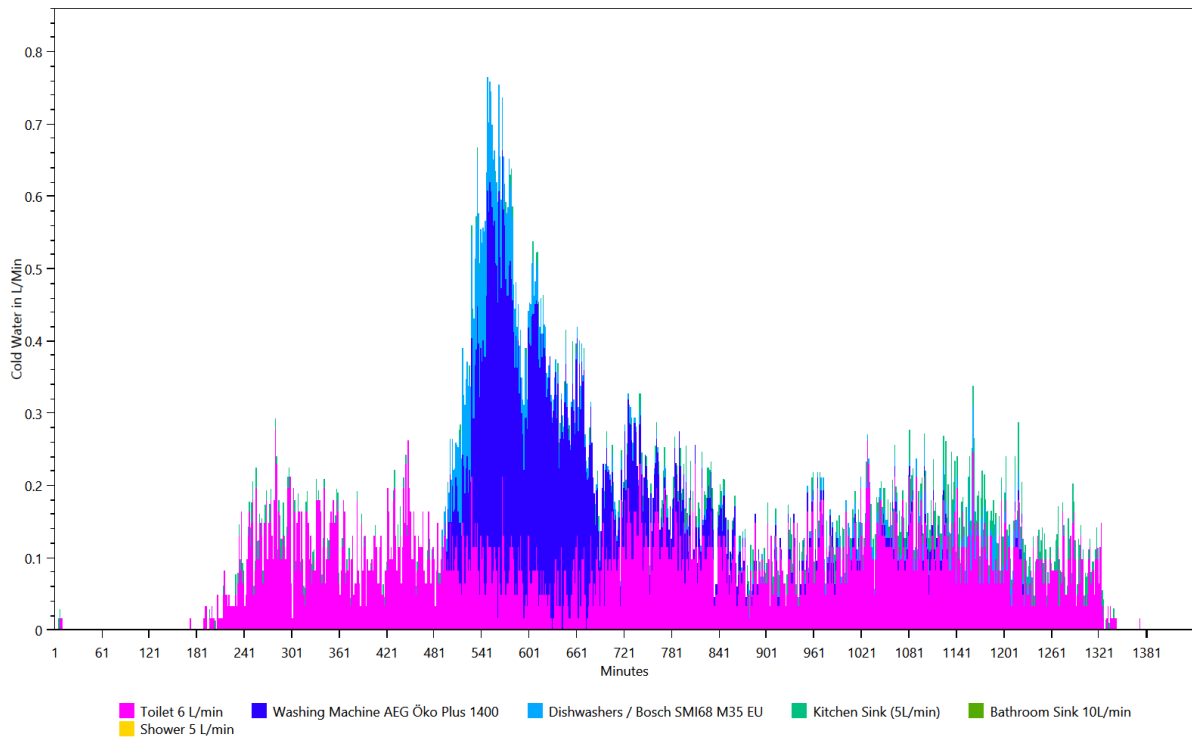


Overview of the time and power of the use per load type per device

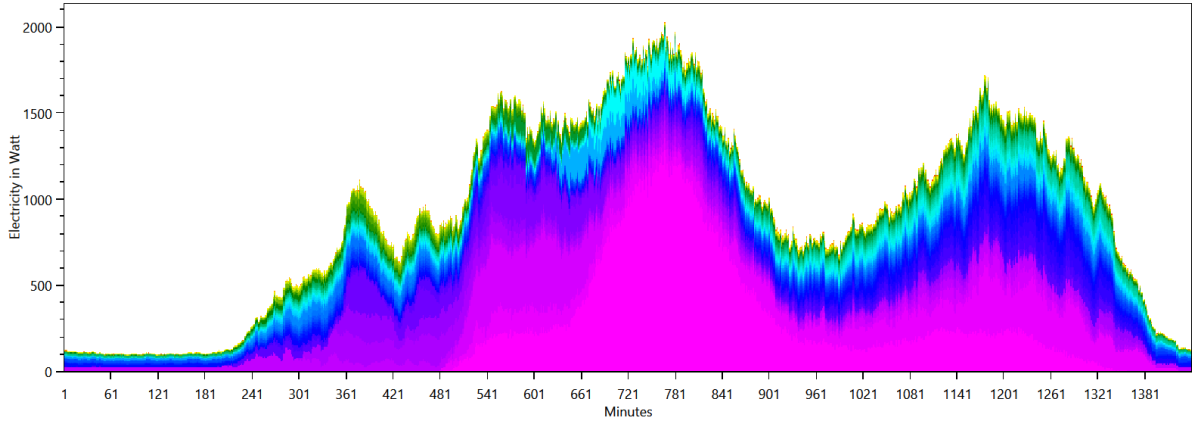
This is made from the files starting with: **TimeOfUseEnergyProfiles**

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

Cold Water

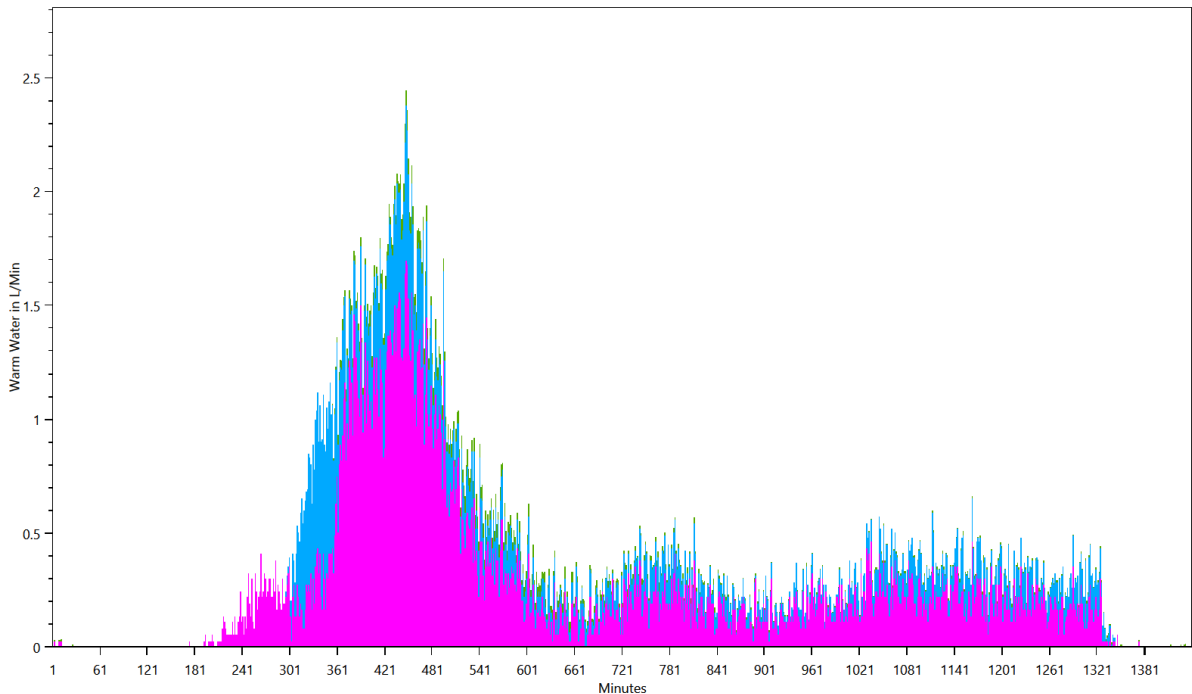


Electricity



- Miele T 7744 C
- Oven / AEG B 33512-5-M
- Dishwashers / Bosch SM168 M35 EU
- Microwave / Panasonic NN-CD757W
- Heater / Honeywell BH-888E
- Hair Dryer BabyIiss 2000
- Washing Machine AEG Öko Plus 1400
- Coffee Machine / Braun Impression KF 600
- Christopeit Treadmill TM 2 Pro
- Kitchen Stove / Bauknecht Heko 750 PT Kitchen stove front left
- Kitchen Stove / Bauknecht Heko 750 PT Kitchen stove front right- full power
- Fondue / Unold 48746 Asia
- Steam Cooker / Phillips HD9140
- Freezer Liebherr GTS 2262
- Sony PlayStation 3
- TASKalfa 180
- Privileg Energy Saver X-200/80 (A++)
- Home Cinema System / Samsung HT-D5550
- Bathroom Light (200W)
- Deep Fryer / DeLonghi F 28311.W Rotofritteuse
- Yamaha RX-V667
- Atika LH 2500 G
- PC / Acer Aspire T310
- Kitchen Light (100W)
- TV Medion MD20123_DE_A
- Lawn Mower / Sabo 32-EL
- Children Room Light (100W)
- Digitalpiano / Kawai CN-23
- TV / Phillips Goya 9770 VT
- Kitchen Stove / Bauknecht Heko 750 PT Kitchen-stove right hind
- Hifi System / Sharp XL-HF300PH
- PC Monitor / Fujitsu Siemens Scaleoview H19-1
- Router / AVM FRITZ! Box Fon WLAN 7390
- Bathroom Mirror Light 100W (Conventional)
- Canister Vacuum Cleaner / Siemens Z6.0 VSZ61260
- Hedge Trimmer / Bosch AHS 550-24 ST
- CD/DVD Player / Phillips CD 380
- Ricecooker / Tristar RK-6112
- Miele DA 249-2
- Juicer / Moulinex Vitafruit
- Living Room Light (Energy Saving Lamp, 20W)
- Egg Cooker / Russell Hobbs 14048-56 Stylo
- SAT Receiver / Kathrein UFS913
- Kitchen Stove / Bauknecht Heko 750 PT Kitchen stove left hind- semi aktiv
- Kitchen radio / AEG KRC 4323 CD
- Bread Baking Machine Unold 6595
- Toaster / Bosch TAT8SL1
- Miele DA 61
- Nintendo Wii
- Electric Kettle / Phillips Essential HD 4685/90 Schwarz
- Electric Tooth Brush / Phillips HX9332
- AEG NM 2701 Premium
- Electric Kettle / Petra WK288 1.5L
- External Harddrive Iomega 3.5"
- Food Slicer / DOMO Schneidemaschine DO521S
- Epson Stylus Color 860
- Handmixer / Phillips Robust HR 1581
- Electric Razor / Phillips PT860/16 Razor PowerTouch Plus
- Bedroom Light (200W)
- Immersion Blender Noah Hit Top
- Canon CanoScan LIDE 110
- LED Lamp Globe E 14 Ambient 3W matt

Warm Water



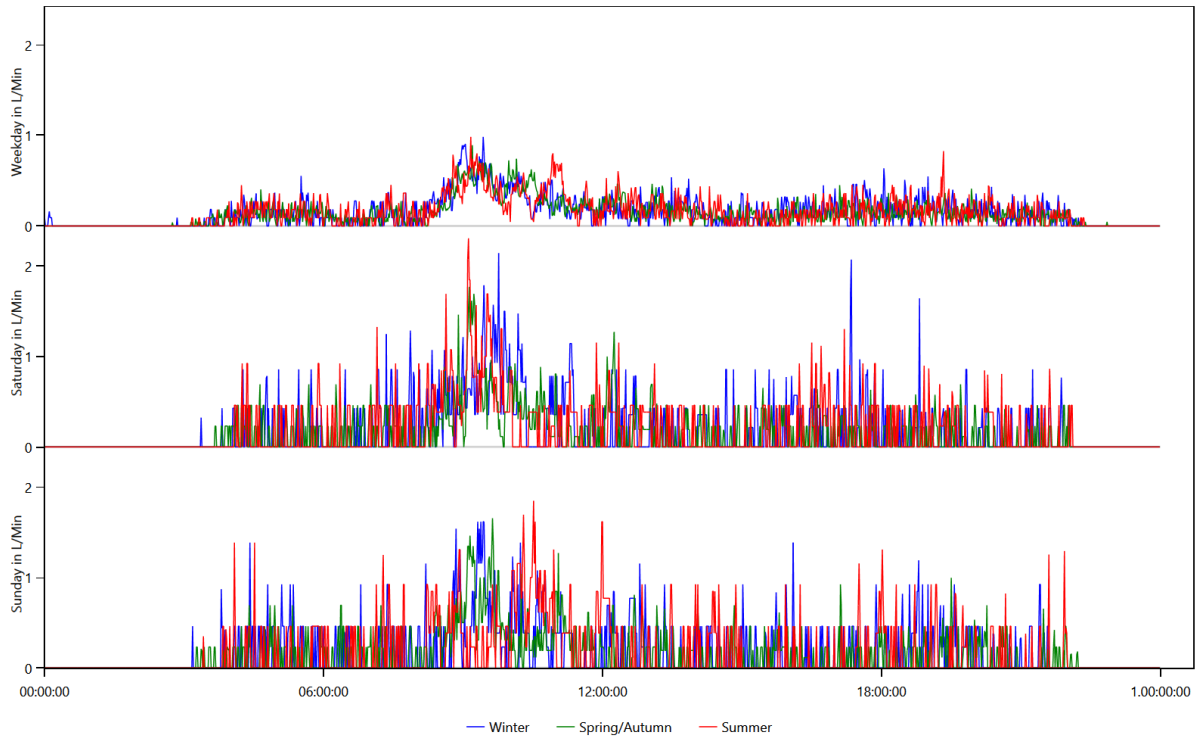
- Bathroom Sink 10L/min
- Shower 5 L/min
- Kitchen Sink (5L/min)

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

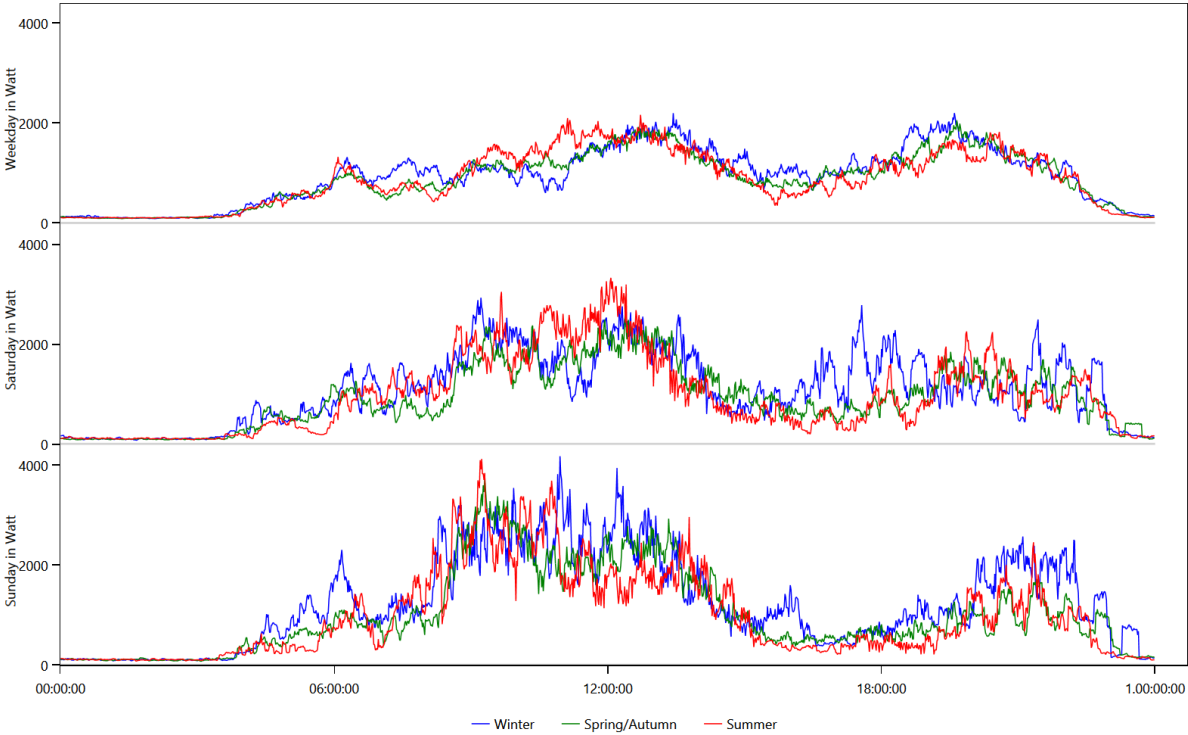
This is made from the files starting with: **WeekdayProfiles**

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

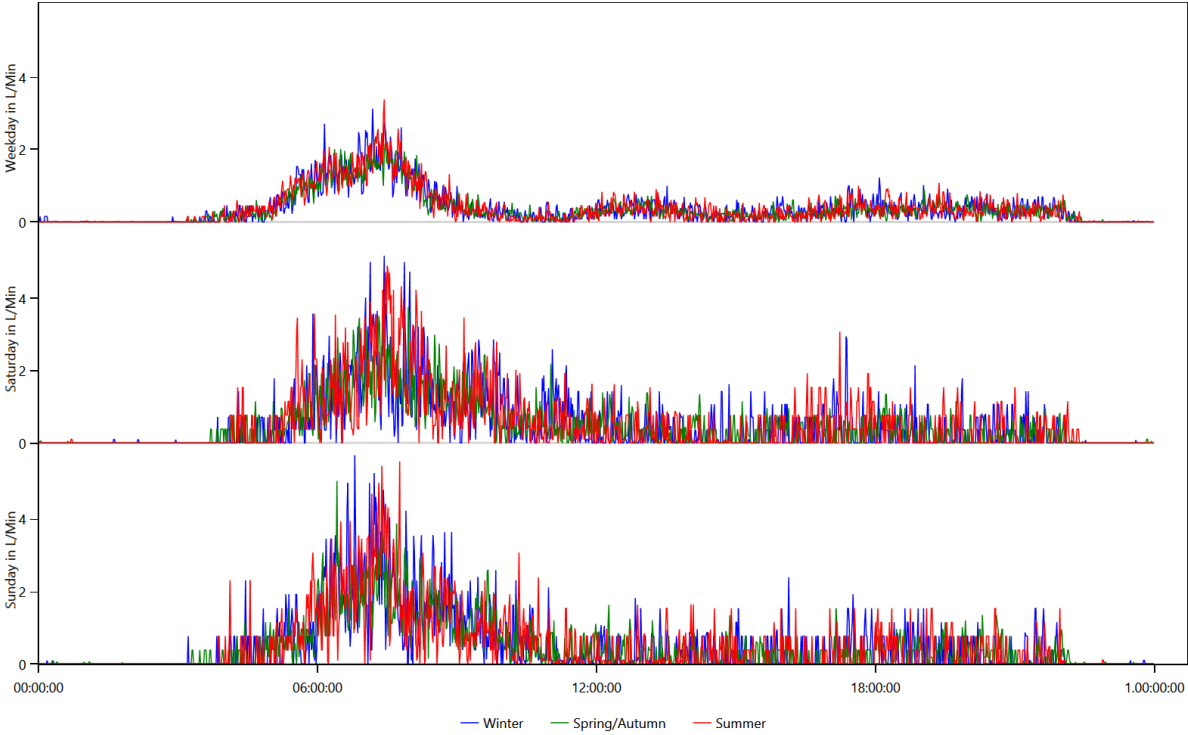
Cold Water



Electricity



Warm Water

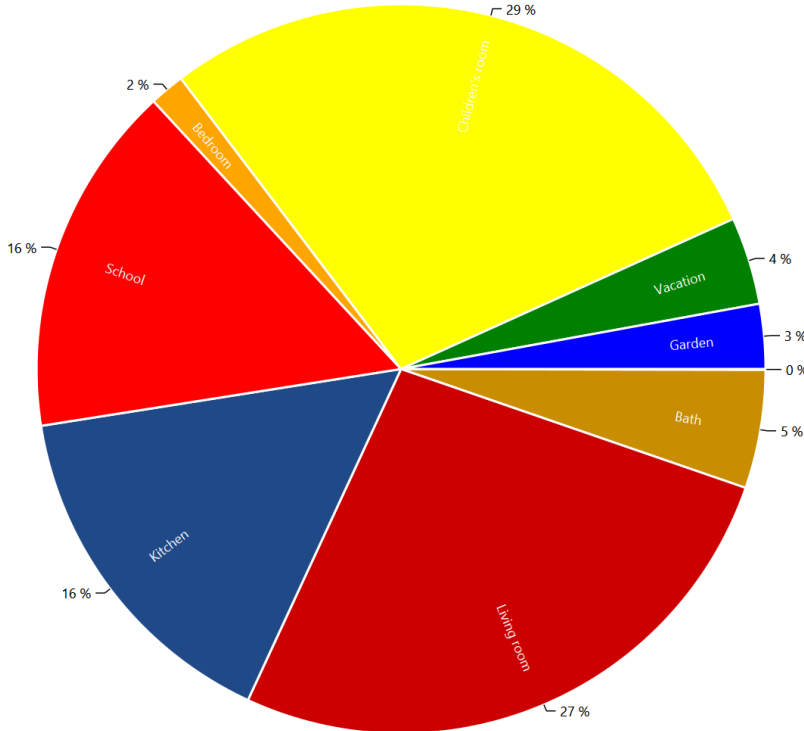


Location Distribution per Person

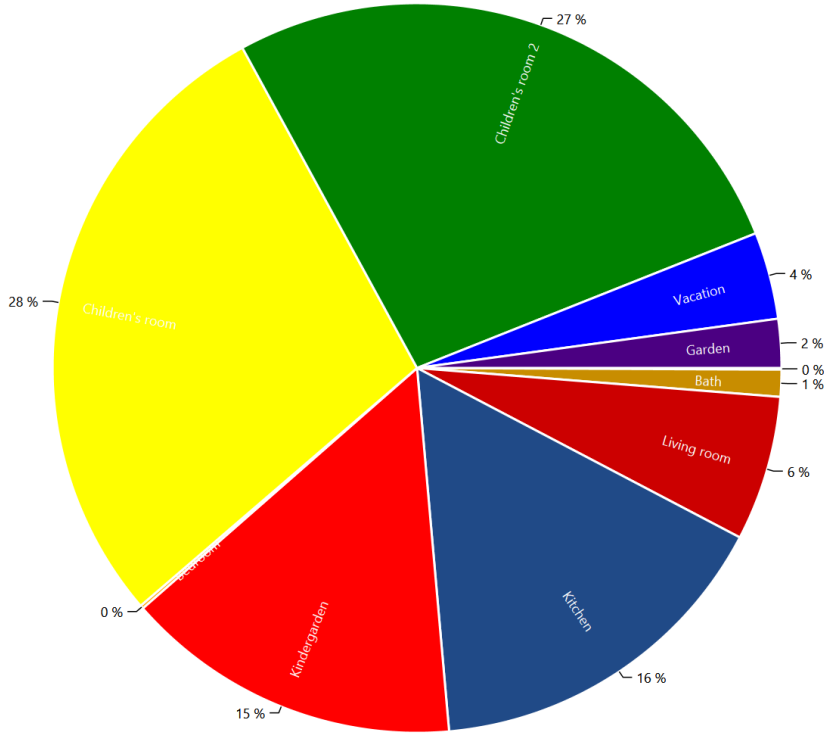
This is made from the files starting with: LocationStatistics

These charts show where the persons spend their time.

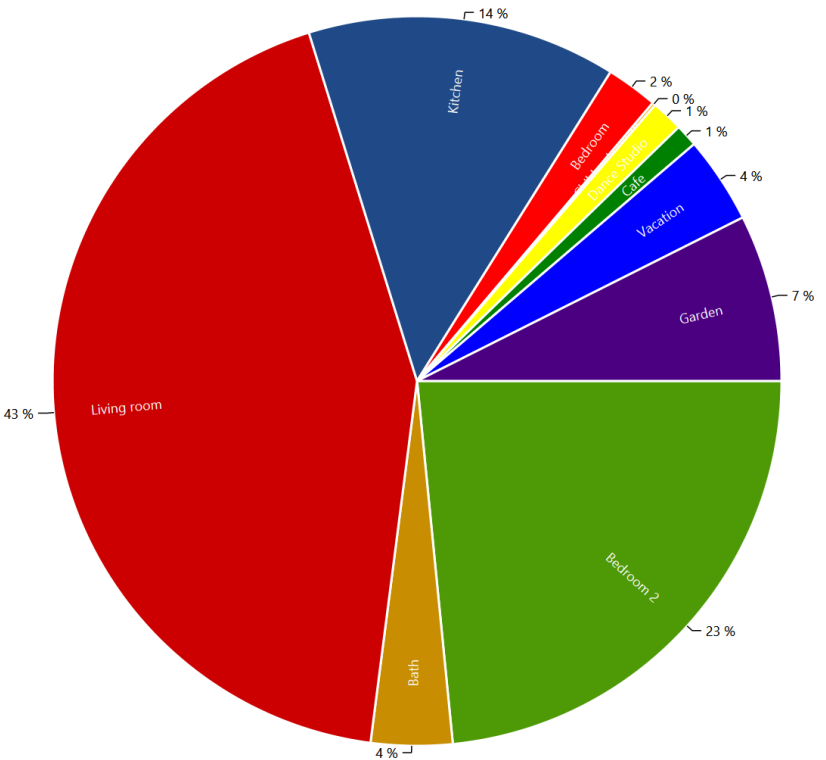
CHR15 Abby (15 Female)



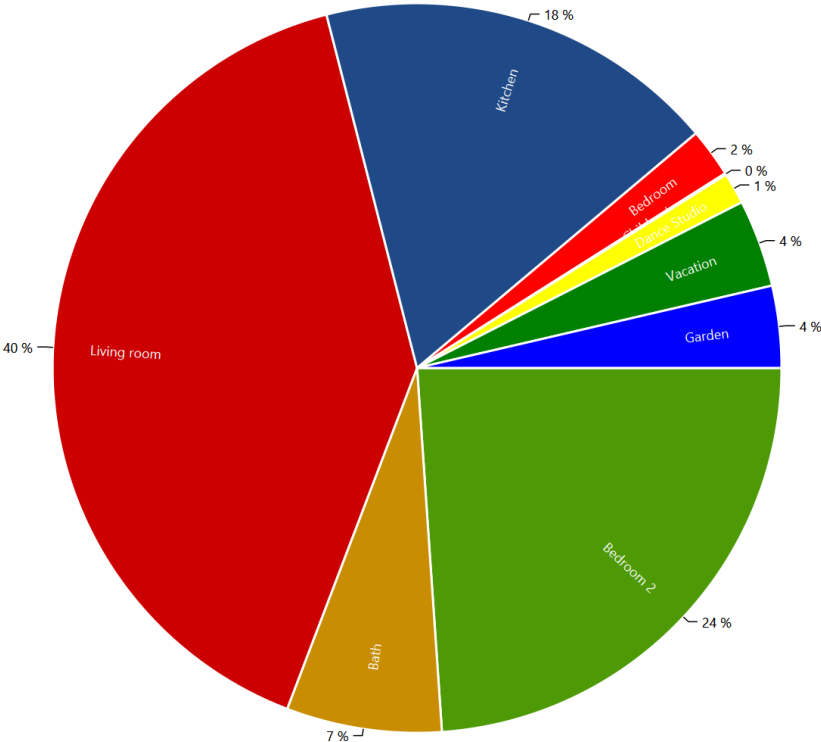
CHR15 Adam (4 Male)



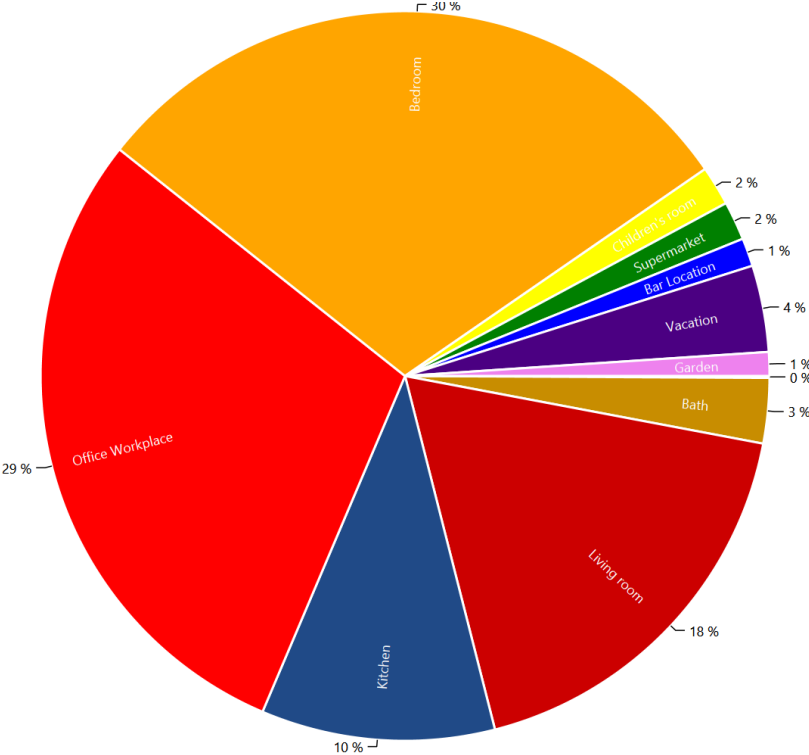
CHR15 Eddie (70 Male)



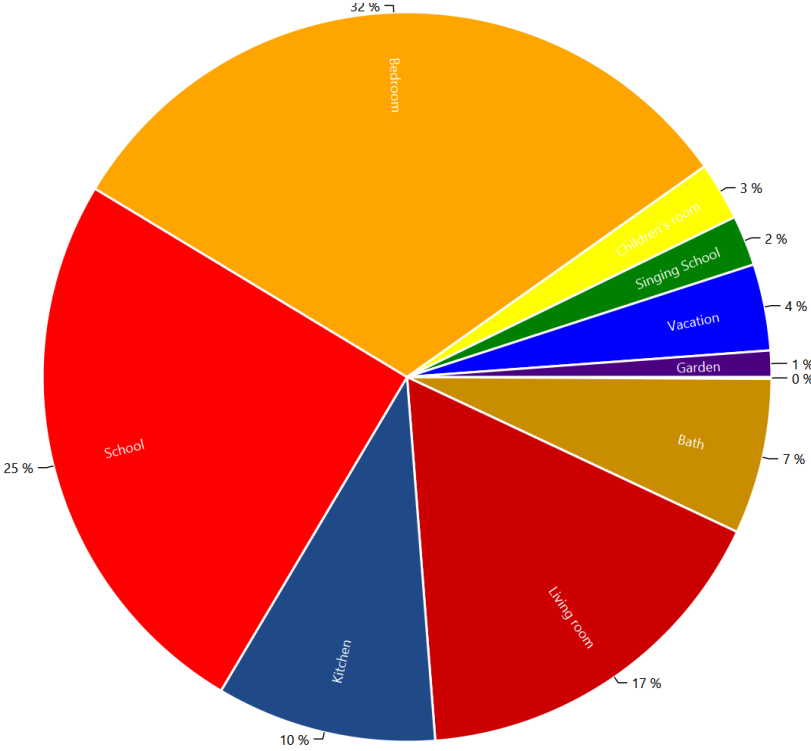
CHR15 Myra (68 Female)



CHR15 Nick (40 Male)



CHR15 Rebekah (32 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

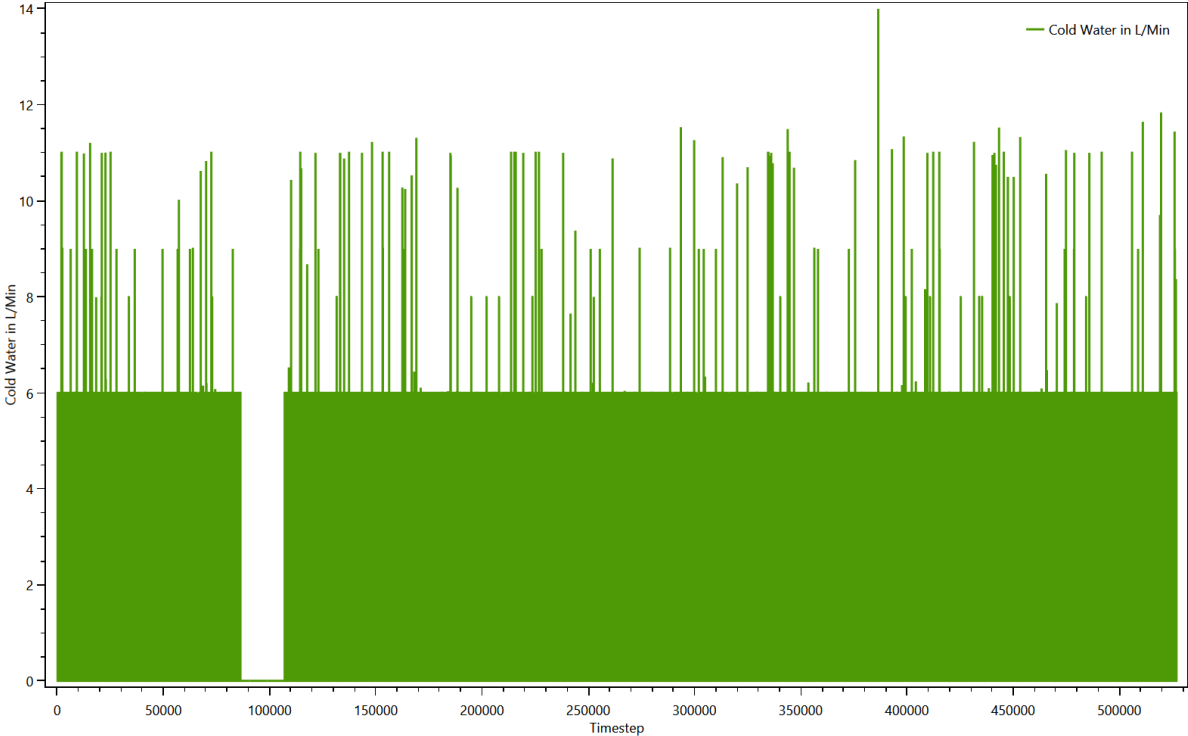
```
Time step;Calendertime;Person;Selected affordance;Affordance Category;Is Sick
0;01.01.2016 00:00;CHR15 Abby (15/Female);sleep bed 03 (08 h) Child;sleep;False;
0;01.01.2016 00:00;CHR15 Adam (4/Male);sleep bed 04 (10 h) Child;sleep;False;
0;01.01.2016 00:00;CHR15 Eddie (70/Male);sleep bed 08 (06 h);sleep;False;
0;01.01.2016 00:00;CHR15 Myra (68/Female);sleep bed 09 (06 h);sleep;False;
0;01.01.2016 00:00;CHR15 Nick (40/Male);sleep bed 08 (08 h);sleep;False;
0;01.01.2016 00:00;CHR15 Rebekah (32/Female);sleep bed 02 (08 h);sleep;False;
214;01.01.2016 03:34;CHR15 Abby (15/Female);go to the toilet;hygiene;False;
219;01.01.2016 03:39;CHR15 Abby (15/Female);use the computer (2 h);Active Entertainment (Computer,
Internet etc);False;
271;01.01.2016 04:31;CHR15 Myra (68/Female);go to the toilet;hygiene;False;
277;01.01.2016 04:37;CHR15 Myra (68/Female);fry two eggs and eat them with toast;cooking;False;
290;01.01.2016 04:50;CHR15 Myra (68/Female);sew and repair clothes;cleaning;False;
291;01.01.2016 04:51;CHR15 Eddie (70/Male);go to the toilet;hygiene;False;
296;01.01.2016 04:56;CHR15 Eddie (70/Male);play board games (1 h);Offline Entertainment;False;
329;01.01.2016 05:29;CHR15 Abby (15/Female);paint a picture ;Offline Entertainment;False;
356;01.01.2016 05:56;CHR15 Abby (15/Female);play a puzzle game;Offline Entertainment;False;
357;01.01.2016 05:57;CHR15 Myra (68/Female);get ready in the morning (women);hygiene;False;
362;01.01.2016 06:02;CHR15 Eddie (70/Male);use the computer with external HD (1 h);Active Entertainment
(Computer, Internet etc);False;
367;01.01.2016 06:07;CHR15 Adam (4/Male);go to the toilet;hygiene;False;
373;01.01.2016 06:13;CHR15 Adam (4/Male);go to kindergarden;school;False;
```

Sum Profiles

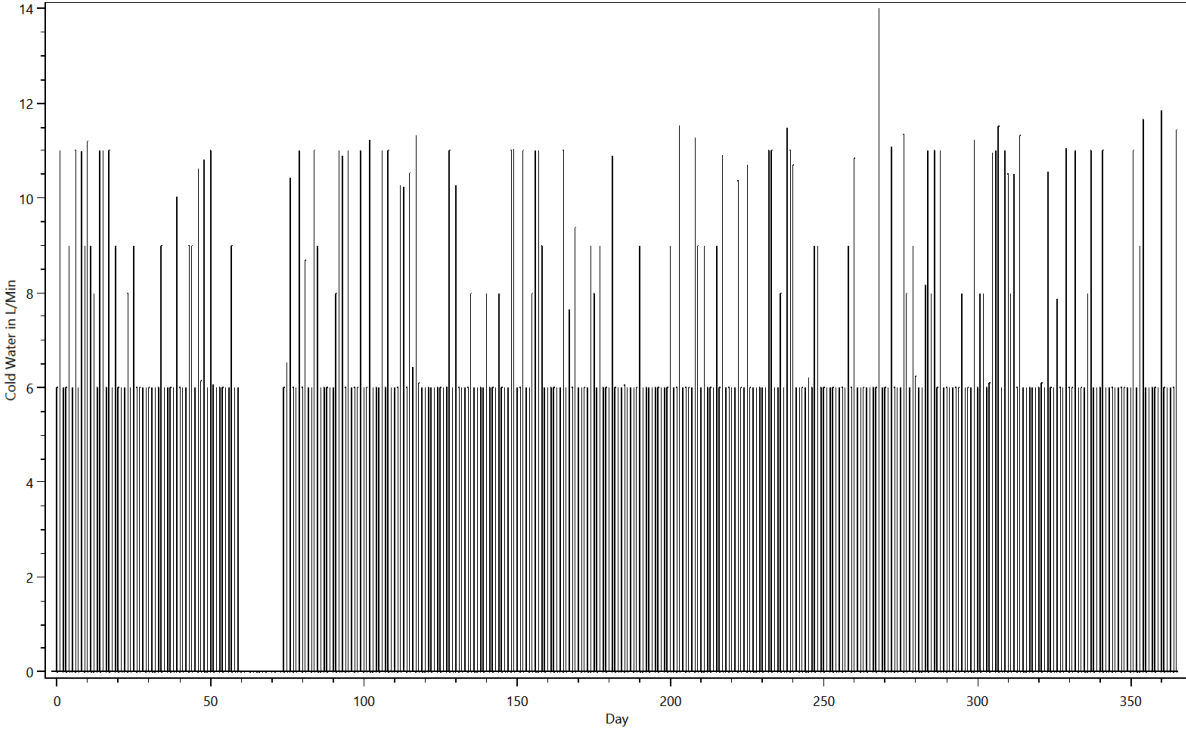
This is made from the files starting with: SumProfiles

This shows the energy use during the simulation.

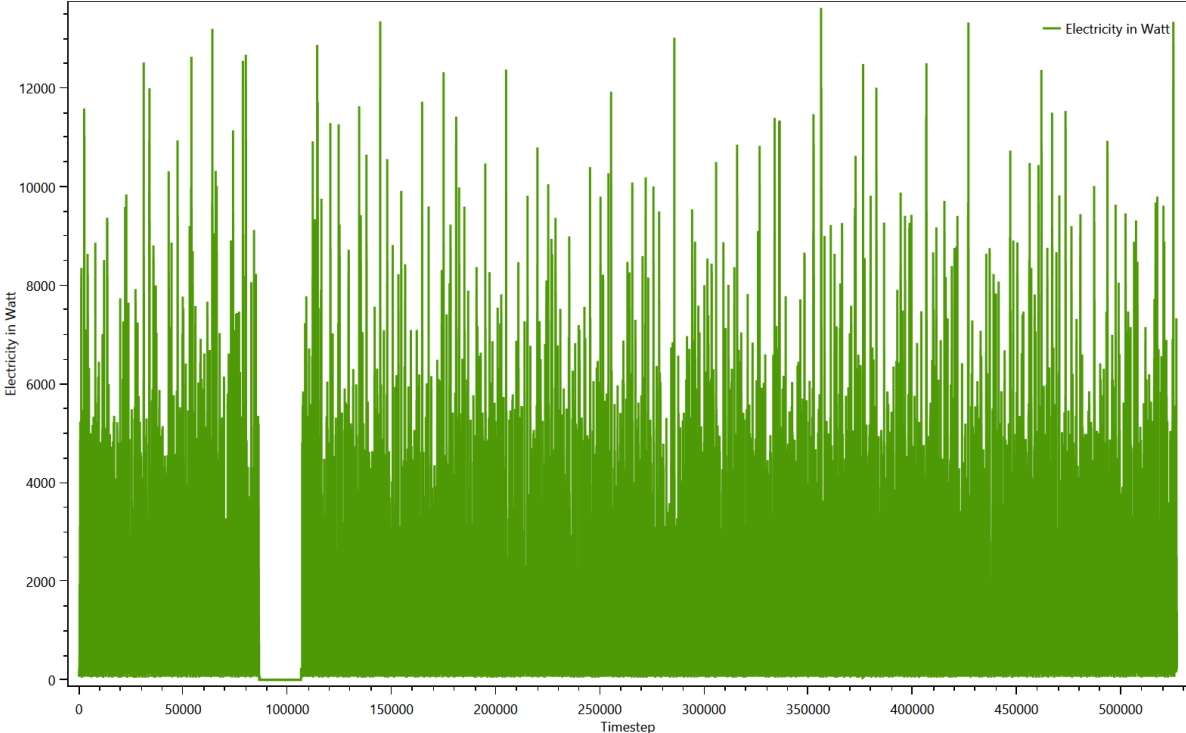
Summed up curve for Cold Water from SumProfiles.Cold Water.png



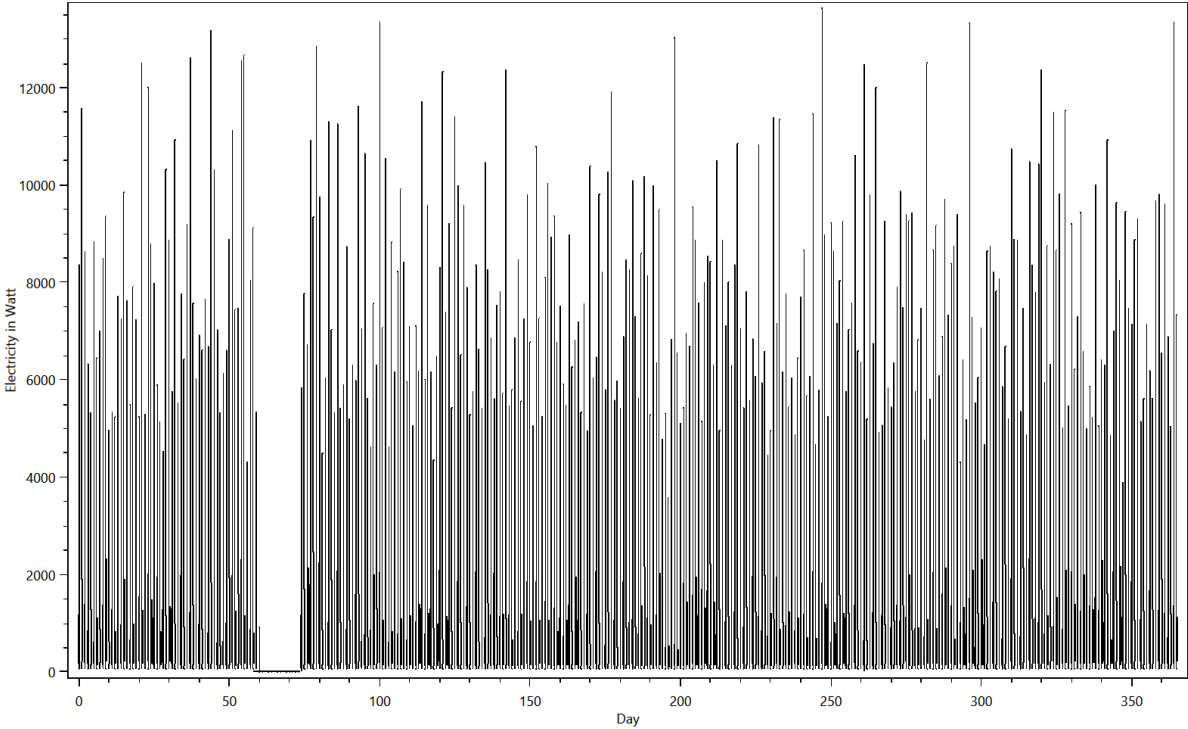
Summed up curve for Cold WaterMinMax from SumProfiles.Cold WaterMinMax.png



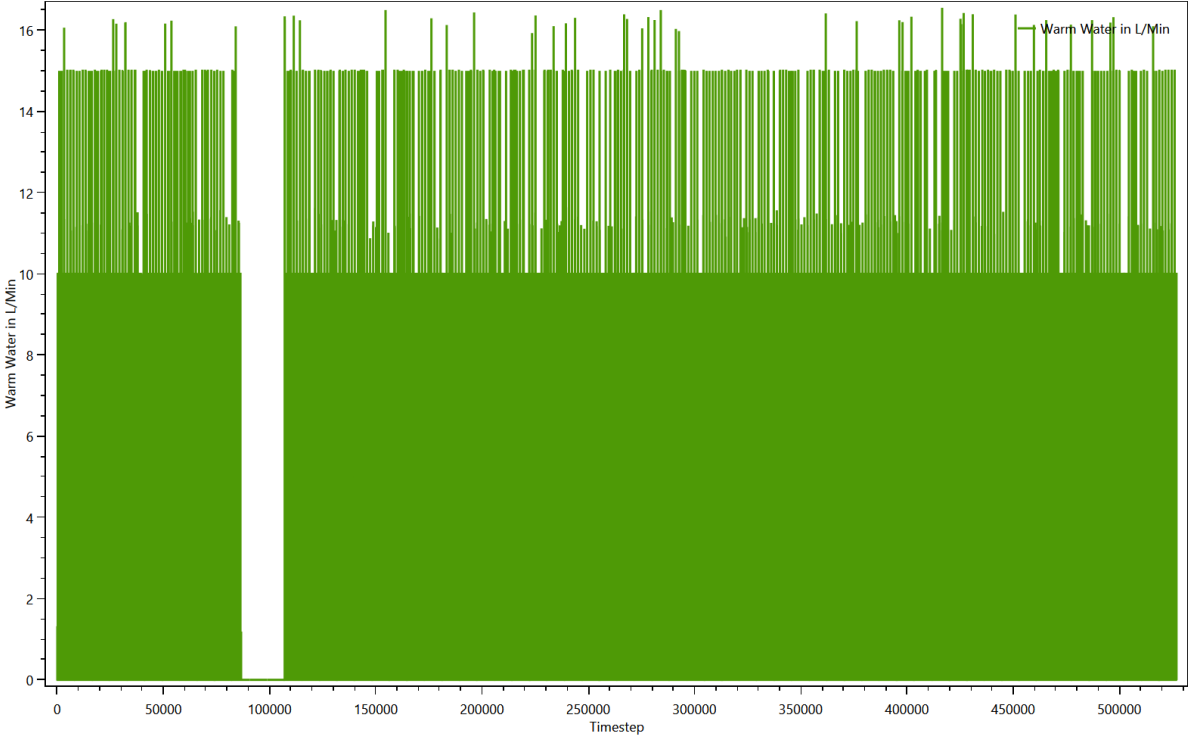
Summed up curve for Electricity from SumProfiles.Electricity.png



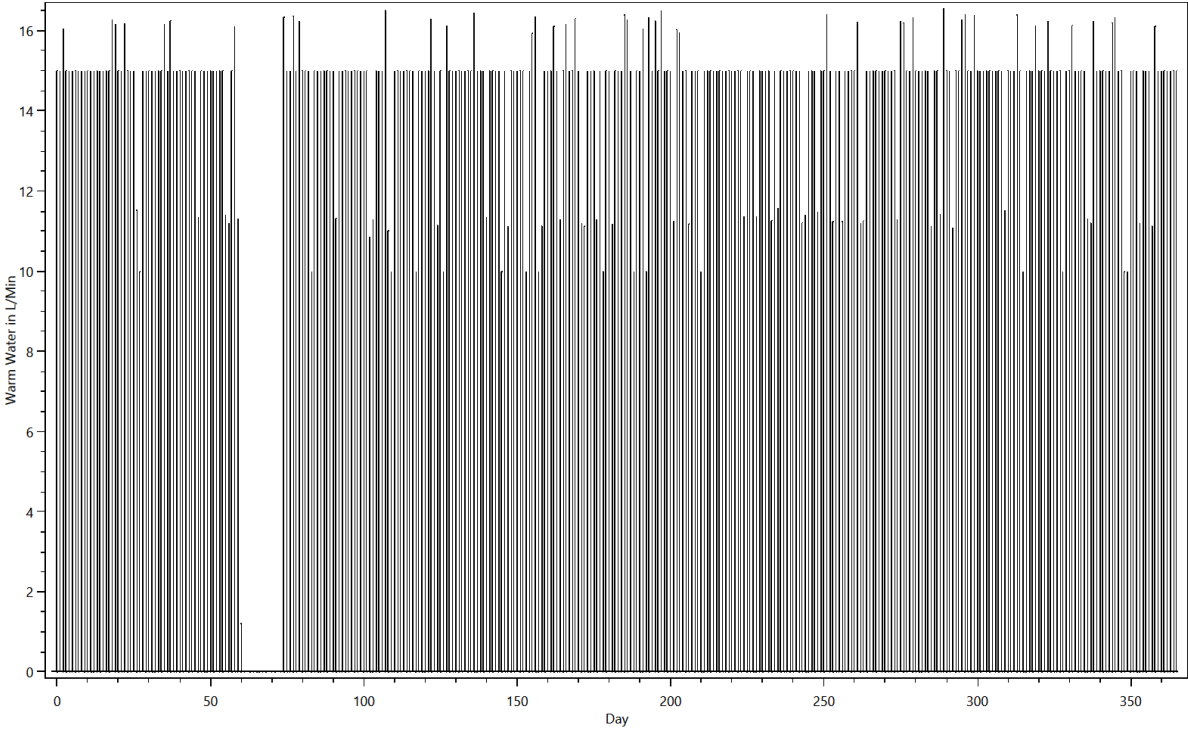
Summed up curve for ElectricityMinMax from SumProfiles.ElectricityMinMax..png



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.CHR15 Multigenerational Home working couple, 2 children, 2 seniors 0.txt

Device;Load Type;Profile;Number of Activations

AEG NM 2701 Premium;Electricity;01 h 0 min 100% [Synthetic];192

Atika LH 2500 G;Electricity;0 h 15 min 100% [Synthetic];155

Bar;None;04 h 0 min 100% [Synthetic];27

Bathroom Light (200W);Electricity;Bath - light [Synthetic for Light Device];2270

Bathroom Mirror Light 100W (Conventional);Electricity;Bath - light [Synthetic for Light Device];2270

Bathroom Sink 10L/min;Warm Water;0 h 01 min 100% [Synthetic];8568

Bathroom Sink 10L/min;Warm Water;0 h 01 min 50% [Synthetic];1522

Bed 2;None;08 h 0 min 100% [Synthetic];355

Bed 3 (Children);None;08 h 0 min 100% [Synthetic];355

Bed 4;None;10 h 0 min 100% [Synthetic];355

Bed 8;None;06 h 0 min 100% [Synthetic];354

Bed 8;None;08 h 0 min 100% [Synthetic];352

Bed 9;None;06 h 0 min 100% [Synthetic];355

Bedroom Light (200W);Electricity;Bedroom - light [Synthetic for Light Device];5

Board Games;None;01 h 0 min 100% [Synthetic];465

Book;None;01 h 0 min 100% [Synthetic];25

Bread Baking Machine Unold 6595;Electricity;Profile for Bread Baking Machine Unold 6595 Electricity [Measured 1 min Resolution (TUC)];101

CD/DVD Player / Phillips CD 380;Electricity;01 h 30 min 100% [Synthetic];817

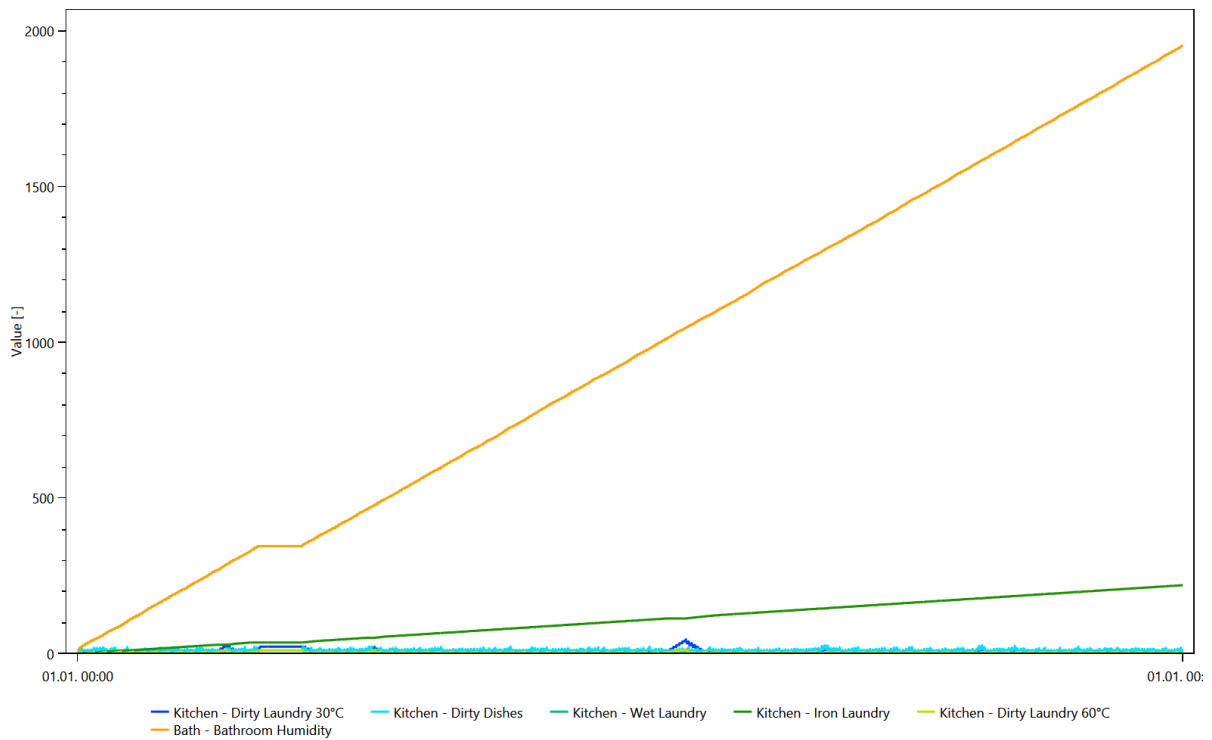
CD/DVD Player / Phillips CD 380;Electricity;02 h 0 min 100% [Synthetic];37

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

