Glossary

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| Term | Description | Classification |
| ID | The identification of the respondents. | N/A |
| Time | The total time that respondents fill the survey. | N/A |
| Region | The place of residence of the respondent. | 1: North part;2: South part;3: Northwest and Tibet part. |
| Gender | The gender of respondents. | 1: Male;2: Female. |
| Education\_level | The education degree of respondents | 1: Below high school (Including tafe);2: bachelor;3: master;4: Above doctor. |
| Daily\_routine | The routine of respondents’ occupation. | 1: Regular;2: shift duty;3: working hour system;4: Flexible working hour system ;5: Not working/Retired. |
| Occupation | The occupation of respondents. | 1: Professional;2: Service;3: Freelancer;4: Worker; 5: Office clerk;6: Civil servant;7: Student;8: No working/Retired. |
| Family\_member | The number of the usual family member in respondents’ house. | 1:1-2; 2:3-4;3: Above 5. |
| Income\_level | The annual family income level of the respondents | 1: Below ¥100k; 2: ¥100k-¥300k;3: Above¥300k. |
| Residential\_type | The type of respondents’ building. | 1: Single room/ Dormitory;2: Apartment  3: House. |
| Electricity\_fee\_level | The monthly electricity fee level of the respondents. | 1:0-¥400; 2: ¥400-¥800;3: Above¥800. |
| Electricity\_fee | The monthly electricity bill of the respondents. | N/A |
| Weights\_for\_buying\_  appliances | The degree of buying intention for energy efficient appliances | 1: Never; 2: Is a consideration;3:Is the primary consideration. |
| Weights\_for\_using\_  appliances | The degree of efficiently using appliances | 1: Never; 2: Is a consideration;3: Is the primary consideration. |
| ST\_fridge | How long has respondents bought their fridge. | 1: No fridge; 2: Within 1year; 3: 1-3 years;4: 3-5 years; 5: Above 5 years. |
| ST\_fan | How long has respondents bought their air conditioner fan. | 1: No air conditioner fan; 2: Within 1year; 3: 1-3 years;4: 3-5 years; 5: Above 5 years. |
| ST\_AIspeaker | How long has respondents bought their AI speaker. | 1: No AI speaker; 2: Within 1year; 3: 1-3 years;4: 3-5 years; 5: Above 5 years. |
| ST\_airfryer | How long has respondents bought their air fryer. | 1: No air fryer; 2: Within 1year; 3: 1-3 years;4: 3-5 years; 5: Above 5 years. |
| ST\_airpurifier | How long has respondents bought their air purifier. | 1: No air purifier; 2: Within 1year; 3: 1-3 years;4: 3-5 years; 5: Above 5 years. |
| ST\_robotcleaner | How long has respondents bought their robot cleaner. | 1: No robot cleaner; 2: Within 1year; 3: 1-3 years;4: 3-5 years; 5: Above 5 years. |
| ST\_cleaner | How long has respondents bought their cleaner. | 1: No cleaner; 2: Within 1year; 3: 1-3 years;4: 3-5 years; 5: Above 5 years. |
| UT\_cleaner | The average daily usage time of the cleaner. | -3: No cleaner; 1: Within 10 minutes; 2:10-30 minutes; 3: Above 30 minutes. |
| ST\_oven | How long has respondents bought their oven. | 1: No oven; 2: Within 1year; 3: 1-3 years;4: 3-5 years; 5: Above 5 years. |
| UT\_oven | The average daily usage time of the oven. | -3: No oven; 1: Within 30 minutes; 2: 30-60 minutes; 3: Above 60 minutes. |
| ST\_washing  machine | How long has respondents bought their washing machine. | 1: No washing machine; 2: Within 1year; 3: 1-3 years;4: 3-5 years; 5: Above 5 years. |
| UT\_washingmachine | The average daily usage time of the washing machine. | -3: No washing machine; 1: Within 30 minutes; 2:30-60 minutes; 3: Above 60 minutes. |
| ST\_waterheater | How long has respondents bought their water heater. | 1: No water heater; 2: Within 1year; 3: 1-3 years;4: 3-5 years; 5: Above 5 years. |
| UT\_waterheater | The average daily usage time of the water heater. | -3: No water heater; 1: Within 30 minutes; 2: 30-60 minutes; 3: Above 60 minutes. |
| ST\_TV | How long has respondents bought their TV. | 1: No TV; 2: Within 1year; 3: 1-3 years;4: 3-5 years; 5: Above 5 years. |
| UT\_TV | The average daily usage time of the TV. | -3: No TV; 1: Within 1 hour; 2:1-4 hours; 3: Above 4 hours. |
| ST\_AC | How long has respondents bought their air conditioner. | 1: No air conditioner; 2: Within 1year; 3: 1-3 years;4: 3-5 years; 5: Above 5 years. |
| UT\_AC | The average daily usage time of the air conditioner. | -3: No air conditioner; 1: Within 1 hour; 2:1-4 hours; 3: Above 4 hours. |
| ST\_light | How long has respondents bought their lights. | 1: No lights; 2: Within 1year; 3: 1-3 years;4: 3-5 years; 5: Above 5 years. |
| UT\_light | The average daily usage time of the lights. | -3: No lights; 1: Within 3 hours; 2: 3-6 hours; 3: Above 6 hours. |
| ST\_microwaveoven | How long has respondents bought their microwave oven. | 1: No microwave oven; 2: Within 1year; 3: 1-3 years;4: 3-5 years; 5: Above 5 years. |
| UT\_microwaveoven | The average daily usage frequency of the microwave oven. | -3: No microwave oven;1: 0-1time; 2:1-3 times; 3: Above 3 times. |
| ST\_coffeemaker | How long has respondents bought their coffeemaker. | 1: No coffee maker; 2: Within 1year; 3: 1-3 years;4: 3-5 years; 5: Above 5 years. |
| UT\_coffeemaker | The average daily usage frequency of the coffeemaker. | -3: No coffee maker; 1:0-1; 2:1-3; 3: Above 3. |
| ST\_dryer | How long has respondents bought their dryer. | 1: No dryer; 2: Within 1year; 3: 1-3 years;4: 3-5 years; 5: Above 5 years. |
| UT\_dryer | The average daily usage time of the dryer. | -3: No dryer; 1: Within 30 minutes; 2: 30-60 minutes; 3: Above 60 minutes. |
| ST\_dishwasher | How long has respondents bought their dishwasher. | 1: No dishwasher; 2: Within 1year; 3: 1-3 years;4: 3-5 years; 5: Above 5 years. |
| UT\_dishwasher | The average daily usage time of the dishwasher. | -3: No dishwasher; 1: Within 30 minutes; 2: 30-60 minutes; 3: Above 60 minutes. |
| ST\_cooker | How long has respondents bought their electric cooker. | 1: No electric cooker; 2: Within 1year; 3: 1-3 years;4: 3-5 years; 5: Above 5 years. |
| UT\_cooker | The average daily usage time of the electric cooker. | -3: No cooker; 1: Within 30 minutes; 2: 30-60 minutes; 3: Above 60 minutes. |
| IM\_fridge | The importance of the fridge. | 1:important; 0：not important. |
| IM\_cleaner | The importance of the cleaner. | 1:important; 0：not important. |
| IM\_oven | The importance of the oven. | 1:important; 0：not important. |
| IM\_washingmachine | The importance of the washing machine. | 1:important; 0：not important. |
| IM\_waterheater | The importance of the water heater. | 1:important; 0：not important. |
| IM\_TV | The importance of the TV. | 1:important; 0：not important. |
| IM\_AC | The importance of the air conditioner. | 1:important; 0：not important. |
| IM\_light | The importance of the lights. | 1:important; 0：not important. |
| IM\_microwaveoven | The importance of the microwave oven. | 1:important; 0：not important. |
| IM\_coffeemaker | The importance of the coffeemaker. | 1:important; 0：not important. |
| IM\_dryer | The importance of the dryer. | 1:important; 0：not important. |
| IM\_dishwasher | The importance of the dishwasher. | 1:important; 0：not important. |
| IM\_cooker | The importance of the cooker. | 1:important; 0：not important. |
| WA\_fridge | Willingness on purchase of the fridge. | 1: want to buy; 0: doesn’t want to buy. |
| WA\_washingmachine | Willingness on purchase of the washing machine. | 1: want to buy; 0: doesn’t want to buy. |
| WA\_waterheater | Willingness on purchase of the water heater. | 1: want to buy; 0: doesn’t want to buy. |
| WA\_AC | Willingness on purchase of the air conditioner. | 1: want to buy; 0: doesn’t want to buy. |
| WA\_light | Willingness on purchase of the lights. | 1: want to buy; 0: doesn’t want to buy. |
| WA\_TV | Willingness on purchase of the TV. | 1: want to buy; 0: doesn’t want to buy. |
| WA\_oven | Willingness on purchase of the oven. | 1: want to buy; 0: doesn’t want to buy. |
| WA\_cleaner | Willingness on purchase of the cleaner. | 1: want to buy; 0: doesn’t want to buy. |
| WA\_microwaveoven | Willingness on purchase of the microwave oven. | 1: want to buy; 0: doesn’t want to buy. |
| WA\_cooker | Willingness on purchase of the electric cooker. | 1: want to buy; 0: doesn’t want to buy. |
| WA\_dishwasher | Willingness on purchase of the dishwasher. | 1: want to buy; 0: doesn’t want to buy. |
| WA\_dryer | Willingness on purchase of the dryer. | 1: want to buy; 0: doesn’t want to buy. |
| WA\_coffeemaker | Willingness on purchase of the coffeemaker. | 1: want to buy; 0: doesn’t want to buy. |
| WA\_fan | Willingness on purchase of the fan. | 1: want to buy; 0: doesn’t want to buy. |
| WA-AIspeaker | Willingness on purchase of the AI speaker. | 1: want to buy; 0: doesn’t want to buy. |
| WA\_airfryer | Willingness on purchase of the air fryer. | 1: want to buy; 0: doesn’t want to buy. |
| WA\_airpurifier | Willingness on purchase of the air purifier. | 1: want to buy; 0: doesn’t want to buy. |
| WA\_robotcleaner | Willingness on purchase of the robot cleaner. | 1: want to buy; 0: doesn’t want to buy. |