

Household Appliance Ownership and Electricity Consumption in Ghana

SND-ID: 2023-283. **Version:** 1. **DOI:** <https://doi.org/10.5878/pkjc-fc59>

Ingår i samling hos SND: [Environment for Development](#)

Tillhörande dokumentation

Codebook_EfD Project MS-956_curated.docx (79.86 KB)

Questionnaire_EfD Project MS-956_curated.docx (190.97 KB)

readme.txt.txt (135 byte)

Citering

Twerefou, D. K. (2025) Household Appliance Ownership and Electricity Consumption in Ghana (Version 1) [Dataset]. Göteborgs universitet. Tillgänglig via: <https://doi.org/10.5878/pkjc-fc59>

Alternativ titel

Household Electricity Consumption Inefficiency and Poverty: Evidence from Ghana

Skapare/primärforskare

Daniel Kwabena Twerefou - University of Ghana, Department of Economics

Forskningshuvudman

[Göteborgs universitet](#) - Environment for Development, Handelshögskolan

Diarienummer hos huvudman

MS-956

Beskrivning

The data contains information on household demographic and socioeconomic characteristics. The data was collected at the household level, hence, respondents are representatives of each household. It also provides information on electrical appliances owned by each household and their characteristics. Additionally, the data contains information on the monthly amount households pay for electricity and the kilowatts of electricity they consume in a month. The data also provides information on households' knowledge of the impact of electricity consumption on climate change and on the environment. Additionally, it provides information on conditions under which households will be willing to contribute towards climate change mitigation by promoting electricity consumption efficiency.

Data innefattar personuppgifter

Ja

Typ av personuppgifter

Age, gender, income, ethnicity, region, district

Språk

[Engelska](#)

Analysenhet

[Bostadsenhet](#)

Population

The data was collected at the household level, and respondents are representatives of households.

Tidsdimension

[Tvärsnitt](#)

Urvalsmetod

[Sannolikhetsurval](#)

The data contains a survey undertaken in three regions of Ghana: Greater Accra, Ashanti and the Northern regions to represent the Coastal, Forest and Savannah Zones respectively. We adopt a sampling design by the Ghana Statistical Service (GSS) used for the Ghana Living Standards Survey (GLSS). Based on the design, the GSS has listed rural and urban Enumeration Areas (EAs) in all the regions. We proportionally allocate the EAs to the regions sampled based on rural-urban stratification. Systematically, 20 households were selected from each EA following the ordered sampling frame. Consequently, 28, 19 and 8 urban EAs were interviewed in the Greater Accra, Ashanti and Northern regions respectively while the figures for the rural areas were 3, 12 and 11 for the Greater Accra, Ashanti and Northern regions respectively. Households in the EAs were located with the help of the household listing undertaken by the GSS containing the names, addresses and Global Positioning System location of all households within the EAs. We submitted all the data collection instruments and protocols for approval by the University of Ghana Ethics Committee for Humanities before going to the field

Tidsperiod(er) som undersökts

2022-04-16 - 2022-05-12

Variabler

510

Antal individer/objekt

1580

Dataformat / datastruktur

[Numeriska](#)

[Text](#)

Datainsamling 1

- Insamlingsmetod: Intervju
- Beskrivning av insamlingsmetod: The questionnaire instrument was coded in Computer-Assisted Personal Interviews (CAPI) and enumerators visited each household to conduct the interview. After each day's activity, the overseer goes through the reported data to identify any errors. If errors are detected, the enumerator re-visits the household the next day to collect the appropriate data.
- Tidsperiod(er) för datainsamling: 2022-04-16 - 2022-05-12

- Instrument: Questionnaire (Frågeformulär) - The questionnaire instrument was coded in Computer-Assisted Personal Interviews (CAPI) and enumerators visited each household to conduct the interview.
- Datakälla: Forskningsdata

Geografisk utbredning

Geografisk plats: [Ghana](#)

Geografisk beskrivning: Three regions of Ghana: Greater Accra, Ashanti and the Northern Regions were selected to represent the Coastal, Forest and Savannah Zones respectively for the survey. Following the sampling design by the Ghana Statistical Service (GSS) which is used for the Ghana Living Standard Survey (GLSS), we proportionally allocate the Enumeration Areas (EAs) to the regions sampled based on rural-urban stratification. Systematically, 20 households were selected from each EA following the ordered sampling frame. Consequently, 28, 19 and 8 urban EAs were interviewed in the Greater Accra, Ashanti and Northern Regions respectively while the figures for the rural areas were 3, 12 and 11 for the Greater Accra, Ashanti and Northern Regions respectively.

Högsta geografiska enhet

Region

Ansvarig institution/enhet

Environment for Development, Handelshögskolan

Finansiering

- Finansiär: Swedish International Development Cooperation Agency
- Diarienummer hos finansiär: MS-956
- Projektnamn på ansökan: Household Electricity Consumption Inefficiency and Poverty: Evidence from Ghana

Etikprövning

Annan - dnr ECH 284/21-22

University of Ghana

Forskningsområde

[Samhällsvetenskap](#) (Standard för svensk indelning av forskningsämnen 2011)

[Nationalekonomi](#) (Standard för svensk indelning av forskningsämnen 2011)

Nyckelord

[Elförbrukning](#), [Hushållsföreståndare](#), [Elektrisk utrustning](#)

Line string (Lon/Lat)

-2.485184, 11.089291

0.325578, 11.132413

0.76476, 6.006546

-1.826412, 4.606358

-2.968284, 5.700533

-2.529102, 8.838756

-2.880448, 11.175528

Tillgänglighetsnivå

Åtkomst till data via SND

Tillgång till data är begränsad

Användning av data

[Att tänka på vid användning av data som delas via SND](#)

Versioner

Version 1. 2025-01-15

Kontakt för frågor om data

Agustin Petroni

data@efd.gu.se

Ingår i samling hos SND

[Environment for Development](#)

Ladda ner metadata

[DataCite](#)

[DDI 2.5](#)

[DDI 3.3](#)

[DCAT-AP-SE 2.0](#)

[JSON-LD](#)

[PDF](#)

[Citation \(CSL\)](#)

Publicerad: 2025-01-15