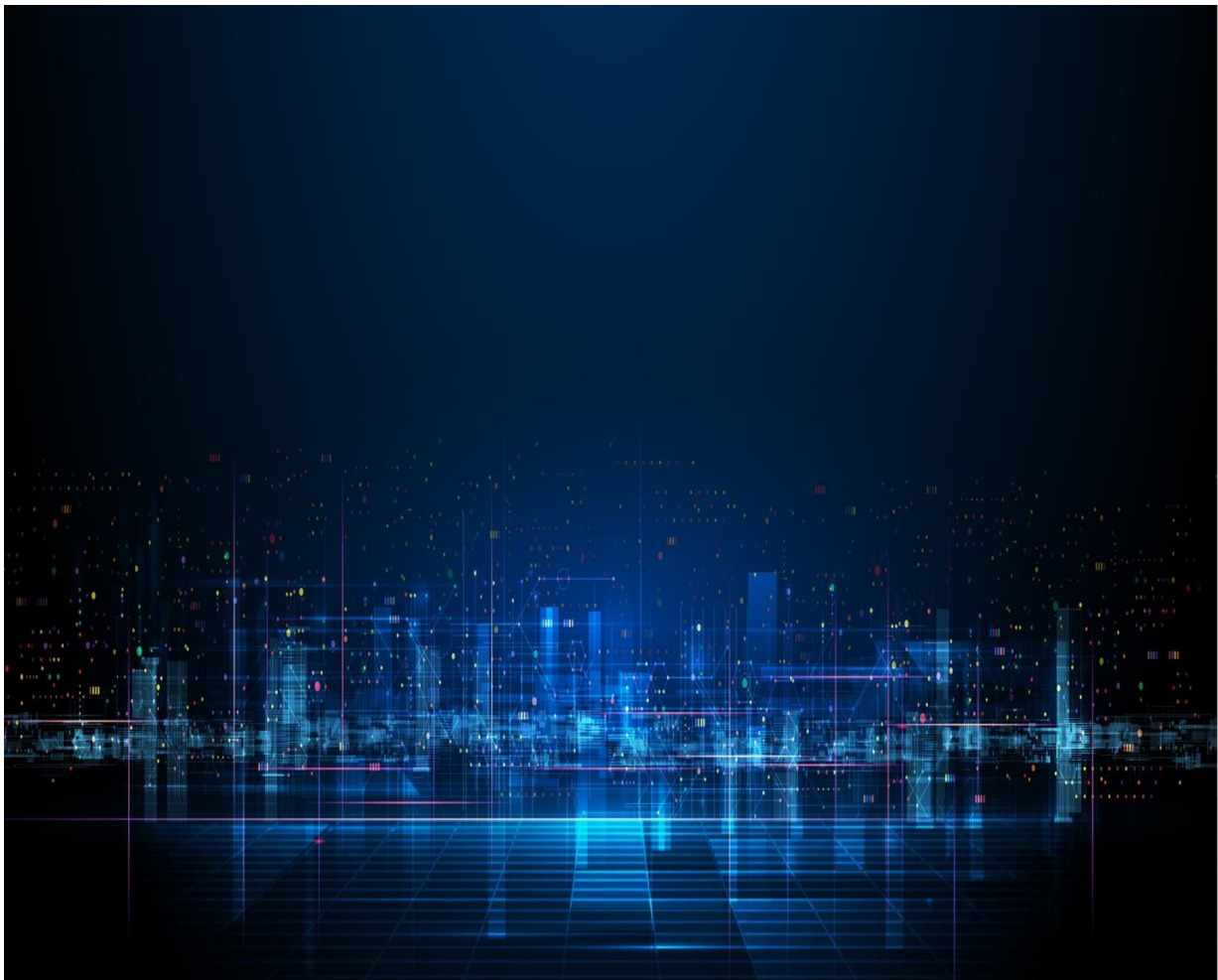# Consolidated Data Set

Report on the Consolidated Data Set from ENCHANT Intervetions D3.4

Report No. D3.4 **//** Date: 31/11/2023

ENCHANT Report

Report on the Consolidated Data Set from ENCHANT Interventions D3.4
VERSION: 02 **//** DATE: 27.11.2022

AUTHOR(S)

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ABSTRACT

This report is a deliverable for the ENCHANT EU H2020 Project, which outlines the datasets resulting from all behavioural interventions implemented over the implementation period of the H2020 ENCHANT project. The objective of this deliverable is to organize the resulting data bases in a clear and concise manner to facilitate the access of researchers and decision-makers to data harvested from the project, in accordance with the open-data requirements of the European Union related to Horizon 2020 projects. The structure proposed is based on validated practice in the field, mainly following the structure proposed by planforms such as Zenodo and similar. The format presented here will serve as a template for the data that will be published at the end of the implementation period.

DOCUMENT HISTORY:

VERSION	DATE	VERSION DESCRIPTION
1	15.11.2023	Draft 1
2	27.11.2023	Final draft

Table of Contents

Austria - Energie Kompass

Energy consumption data collected in Austria aiming at observing changes in the energy-saving behaviour of households. In spring 2023, Energie Kompass (EK), an ENCHANT partner, conducted a newsletter campaign in Burgenland, Austria, testing the impact of energy-saving tips framing on energy community consumption. Five newsletters were sent to 2,500 members via www.team4.energy, the EK's shared electric power management platform.

Authors

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Formats

The data file is available in the following formats:

Enchant_raw_data_interventions_savingenergy_Austria.sav
Enchant_raw_data_interventions_savingenergy_Austria.rds

Italy - Energia Positiva

Energy consumption data collected from Italy during interventions conducted by Energia Positiva. The intervention investigates the impacts of descriptive norm and injunctive norm messages on the customers' energy consumption behaviour. During a period of 12 months (January 2022 to December 2022), monthly electricity consumption data was collected from households.

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Formats

The data file is available in the following formats:

Enchant_raw_data_interventions_savingenergy_Italy.xlsx
Enchant_raw_data_interventions_savingenergy_Italy.rds

Romania – Electrica Furnizare

Online and offline interventions conducted by the Romanian energy provider Electrica Furnizare S.A. aimed at observing changes in energy-saving behaviour in the monthly consumption of households. Monthly metered data and other socio-demographic variables (gender and age of customer, city, county, and province) were collected between January 2020 and December 2022.

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Formats

The data file is available in the following formats:

Enchant_raw_data_interventions_savingenergy_Romania.xlsx
Enchant_raw_data_interventions_savingenergy_Romania.rds

Türkiye - Gediz Electricity

A comprehensive experiment was conducted in Izmir, Türkiye, by the implementation partner regional electricity provider, GEDIZ and scientific partner, the Izmir University of Economics. It aimed at empirically assessing the influence of diverse energy efficiency information interventions on household electricity consumption patterns. The experimental framework was meticulously designed and executed over a specified period from November 2021 to February 2022.

During this timeframe, GEDIZ strategically implemented a series of interventions, leveraging various informational strategies, to observe the effects on the electricity consumption behaviours of households.

It is important to note that due to the commercial nature of the data generated from this experiment, a Non-Disclosure Agreement (NDA)governs access to the data. Consequently, direct access to the raw data is restricted.

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Formats

Data is confidential and is subject to a Non-Disclosure Agreement.

Germany- Hansgrohe – Pontos

Experiment with a collaborative intervention between the German energy provider Badenova and the private enterprise Hansgrohe with the objective to cause effective water resource management at the level of households. Survey-based data collection and video interviews result in a number of variables employed to explore the influence of various types of interventions on water consumption and the potential relationship between water- and energy-saving practices.

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Formats

The data file is available in the following formats:

Enchant_raw_data_interventions_savingenergy_Germany.sav
Enchant_raw_data_interventions_savingenergy_Germany.xlsx
Enchant_raw_data_interventions_savingenergy_Germany.rds

Germany - Sustainability Survey

In May and April 2022, Badenova conducted a survey among their customers about their perceptions and attitudes towards sustainability and the energy transition in general, sources of information used by their customers to educate themselves about these topics and their expectations about future business models. The survey additionally contains basic socio-economic information about the households/individuals who answered the survey. In total, 157 answers were collected.

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Formats

The data file is available in the following formats:

Enchant_raw_data_sustainability_survey_Germany.sav

Germany- Climate quarter Waldsee - festival

As part of the Klimaquartier Waldsee festival, it should be examined whether private individuals can be encouraged to scan a QR code using a poster and then take part in an online survey. In July 2021, two posters were placed in a visible location at the street festival. The intervention did not yield any results. The QR code was not scanned and the survey did not generate any feedback.

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Formats

No data was harvested from the intervention.

Germany- Solar Panel

A competition was organized to motivate participants for the multinational Electricity Saving Intervention Platform. All participants who successfully completed the 6 weeks of the multinational Electricity Saving Intervention Platform were entered into a draw to win a solar panel as the main prize and several consolation prizes. The competition led to a higher number of registrations. There are no measurable results.

The prizes were donated by Badenova.

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Formats

No data was harvested from the intervention.

Germany- TestCommunity

The year 2022 was used to establish the TestCommunity at Badenova. The aim was to further motivate participants in the solar panel competition and the multinational Electricity Saving Intervention Platform until the intervention starts. A total of three online webinars were organized as part of the TestCommunity in summer 2022. The topics of the webinars were Saving energy, electric mobility and mini-photovoltaics. The aim was to increase the number of participants in the community. TestCommunity participants took part in the sustainability survey and the multinational Electricity Saving Intervention Platform. There are currently around 530 registered participants.

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Formats

No data was harvested from the intervention.

Romania - Green Friday

The campaign called "Green Friday" implemented by the Municipality of Cluj-Napoca, Romania, provides free public transportation to the population on Fridays. Traffic data was collected for one route in Cluj-Napoca for approximately two months and public transportation data about bus commuters on all bus lines equipped with the data collection system (Thoreb) in Cluj-Napoca between March 2021 and December 2022.

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Formats

The data file is available in the following formats:

Enchant_raw_data_interventions_publictransport_Romania.xls
Enchant_raw_data_interventions_publictransport_Romania.rds

Türkiye - Public transportation

From December 2021 to March 2022, the implementation partner Izmir Metropolitan Municipality in Türkiye and scientific partner Izmir University of Economics executed an extensive and meticulously planned information intervention campaign. This initiative involved the strategic deployment of billboards and infographics at strategically chosen public locations and transportation stations throughout the city of Izmir. The primary objective of this campaign was to actively promote and incentivize the residents of Izmir to increase their utilization of public transportation services.

A key facet of this intervention included the systematic collection of comprehensive data pertaining to transportation usage across diverse modes within the city of Izmir. This data was recorded on an hourly basis, covering multiple years.

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Formats

The data file is available in the following formats:

Enchant_raw_data_interventions_publictransport_Turkiye.rds

Italy - Ninfa Garden

Survey data collected in the historic gardens of Ninfa, Italy, after interaction with energy efficiency information, points at how Ninfa Gardens visitors interact with renewable investments, energy usage trends, and their commitment to sustaining energy efficiency post their visit.

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Formats

The data file is available in the following formats:

Enchant_raw_data_interventions_EEandRES_Italy.xls
Enchant_raw_data_interventions_EEandRES_Italy.rds

Norway – Building Energy Efficiency Online Counselling

In January 2022, Viken county rolled out an intervention program through their member-municipalities to promote an online platform giving specific advice for upgrades of the energy standard of privately owned buildings: energiportalen.no. On this platform, residents can get specific information about the energy standard of their house (based on information stored in public databases), options to improve it, and help how to implement these improvements. Naturvernforbundet (Friends of the Earth Norway) cooperates with a similar website (energismart.no). In ENCHANT, we evaluated the effects of these websites on the upgrading ambitions of their users. Pop-up invitations to participate in a survey were implemented on both websites for the whole year of 2022. Data was collected in a comparable way to several waves of an energy efficiency upgrade survey that was conducted by NTNU for Norway's energy efficiency agency Enova. The dataset below includes the data collected through the websites and the comparison data from the Enova survey.

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Formats

The data file is available in the following formats:

Enchant_raw_data_interventions_EEandRES_Norway.sav

Multinational Electricity Saving Intervention Platform

In ENCHANT, an intervention platform was constructed, that allowed to provide behaviour-science based interventions (information, social norms, feedback, collective framing, competition, and commitment) in a randomized control trial (RCT) design. Participants for the platform were recruited in six countries (Norway, Germany, Romania, Italy, Austria, and Türkiye). More than 2,554 participants were recruited through the user-partners and a recruitment company and numbers sufficient for comparative analyses were achieved in Norway, Germany and Romania. For a full documentation of the platform implementation, please see Asagarabad et al. (2003).

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Formats

The data file is available in the following formats:

Enchant_raw_data_interventions_Platform.sav
Enchant_raw_data_interventions_Platform.rds