# **Home Energy Report**

A case-study on behavioral measures

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CONCERTED

DIRECTIVE

ENERGY EFFICIENCY

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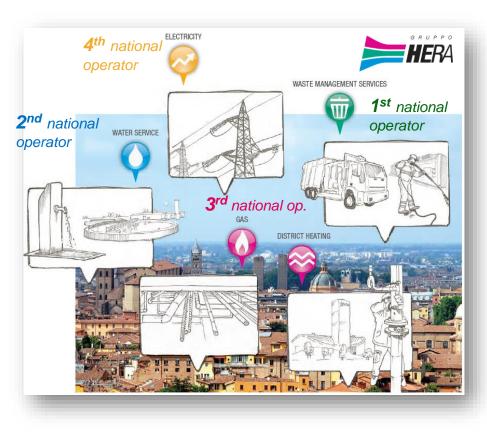
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Stockholm, 11<sup>th</sup> October 2022

GRUPPO

FJ F- F-

#### Offering primary local services to citizens



## A major Italian multi-utility

HERA operates mainly in **environmental services** (collection and disposal of waste), **water** (mains water, sewage and purification) and **energy** (distribution and sale of electricity and gas).



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## Think global, act local

#### HERA creates shared value working on Global Agenda Goals

Activities carried out by HERA cover 10 over 17 global goals of United Nations Organization for Sustainable Development.





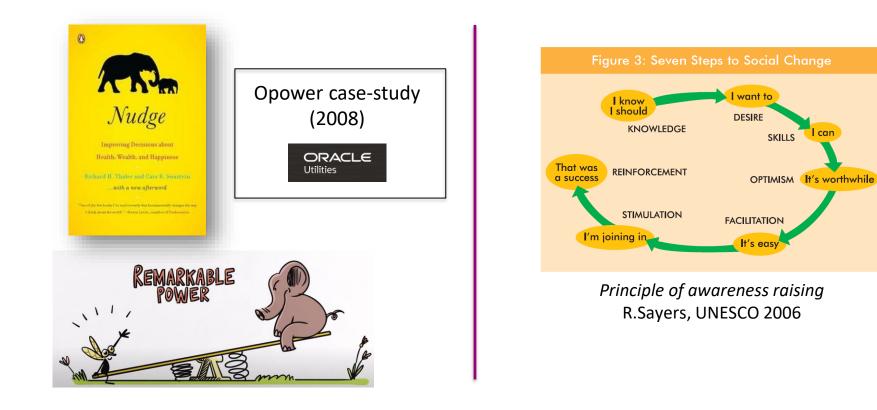


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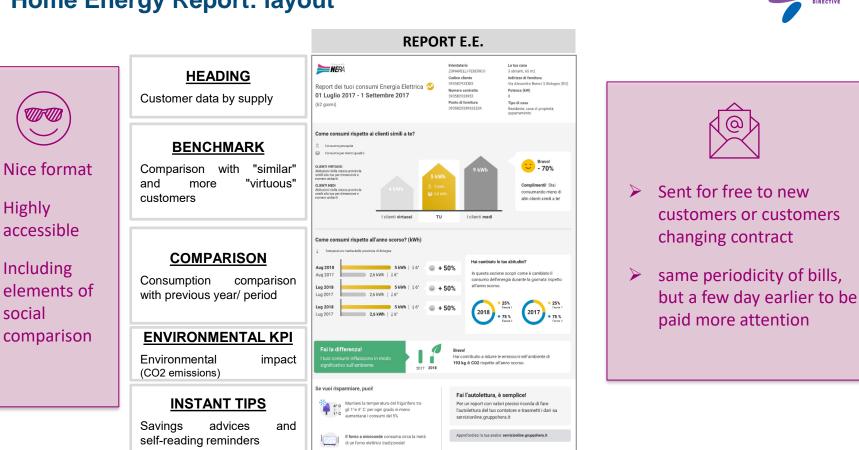
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#### **Fundamentals**





### Home Energy Report: layout



Highly

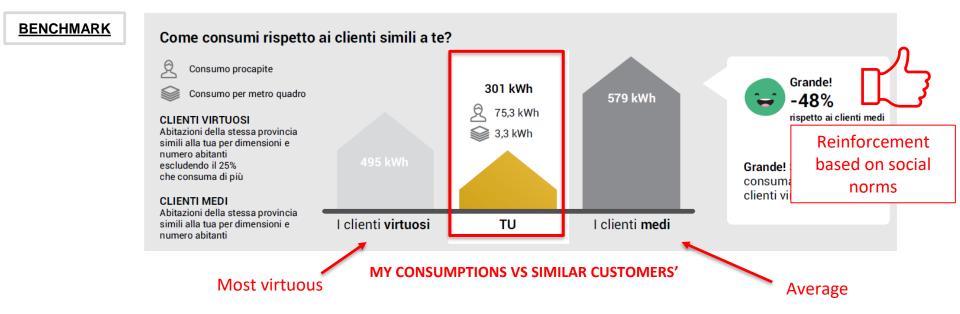
Including

social

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## Home Energy Report: focus (1/3)

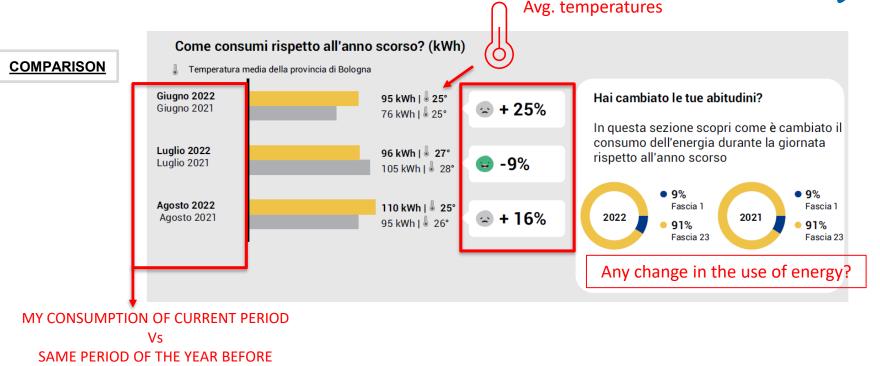


#### Similar customers $\rightarrow$ same town, dimension of the house and n° of components

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### Home Energy Report: focus (2/3)



#### Self comparison for continuous improvement

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## Home Energy Report: focus (3/3)



#### Impacts in terms of CO2 emissions



#### Tips are:

- Tecnological or behavioral
- Diversified and variable depending seasonality

#### So what...??

Report der hats annen Di Logite 2017 - 1 Se



Are there energy savings measurable? Energy savings have been measured using a methodology based on mathematical and statistical principles





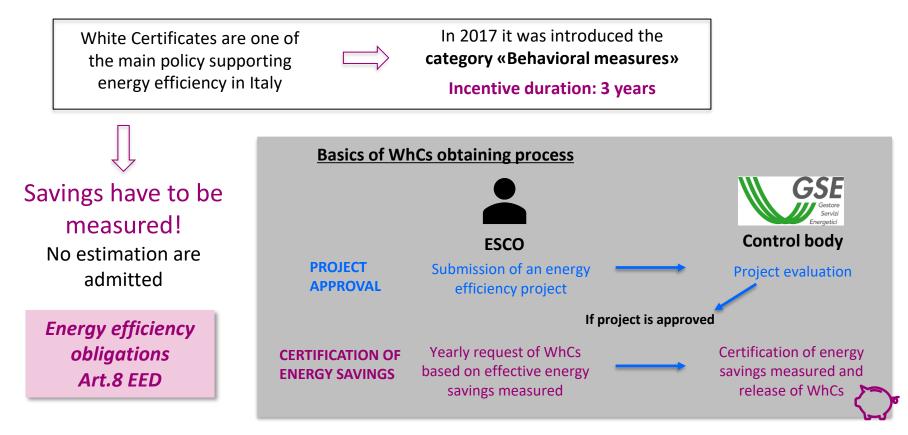
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Awarded with energy efficiency incentive of White Certificates

#### Integration with WhCs mechanism



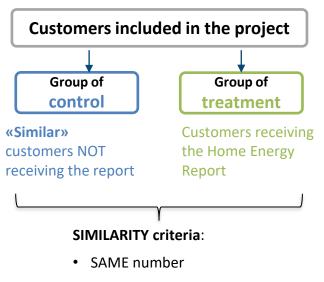


## How savings are measured

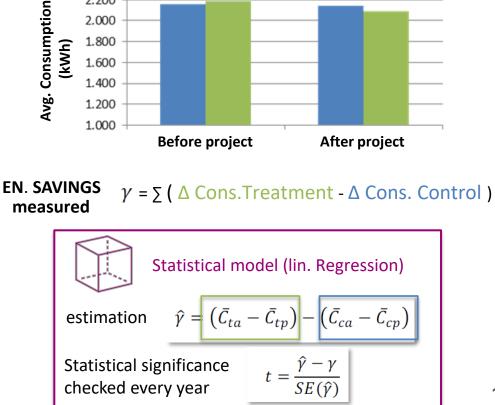
**METHODOLOGY** Differences in differences

2.200

2.000



- SAME town ٠
- Approx. SAME annual consumption ٠



11th October 2022, Stockholm

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**Results** 



Average Energy savings measured

≈3%

		Savings measured	
		1° year	2° year
# Customers included		96.191	79.221
Avg. Consumption ex-ante [kWh/a	anno]	1.942	1.956
Disregarded > < 15%		6.644	2.782
Energy savings %		3,0%	2,6%
White Certificates released	#	960	716
	€	240.000€	180.000€

The **effectiveness** of the report is **expected to decrease over the years** 

- Continuous updates of format
- ✓ Invitation to integrate with technologies → become active and advocate!
- ✓ Awards and prizes initiatives

Thanks for your attention 6 0 🗑 📚 **Contacts information:** eng. Margherita Cumani margherita.cumani@gruppohera.it Energy Management & Renewable Energy Production HERA S.p.A. www.gruppohera.it GRUPPO