Home Energy Report

A case-study on behavioral measures

Margherita Cumani Energy Management & Renewable Energy Production Hera S.p.A.

CONCERTED

DIRECTIVE

ENERGY EFFICIENCY

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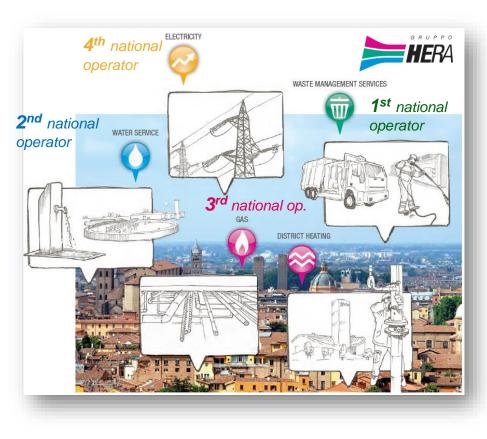
TION

Stockholm, 11th 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.





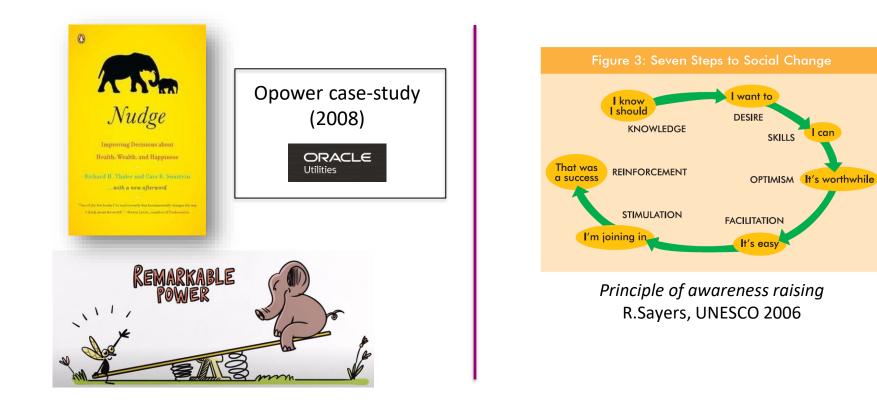


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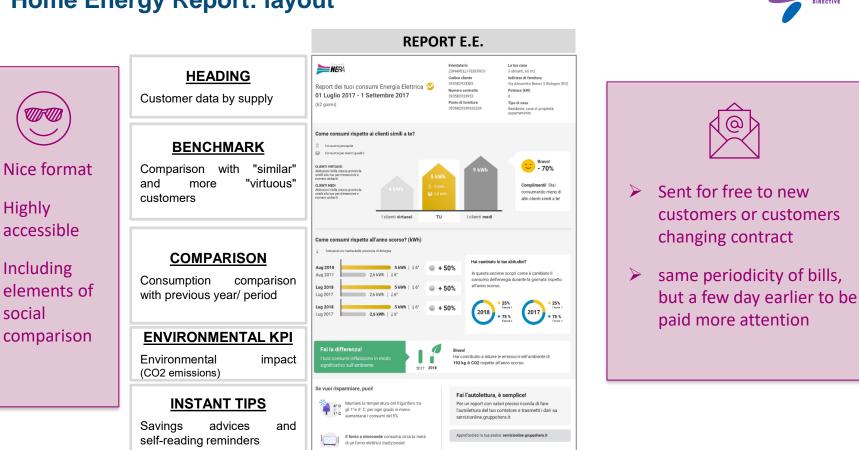
ENERGY EFFICIENCY

Fundamentals





Home Energy Report: layout



Highly

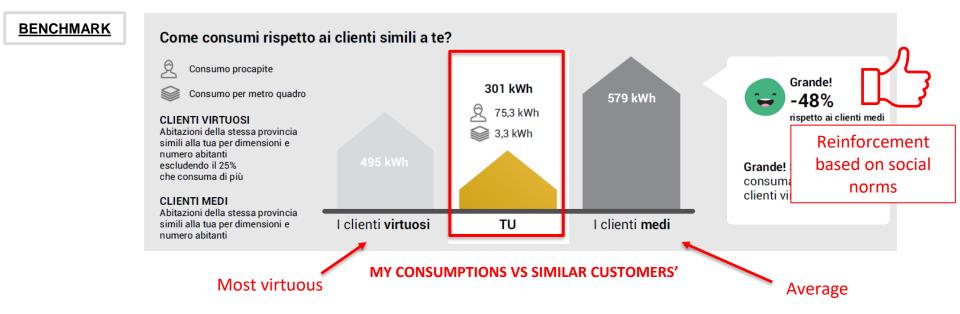
Including

social

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Home Energy Report: focus (1/3)

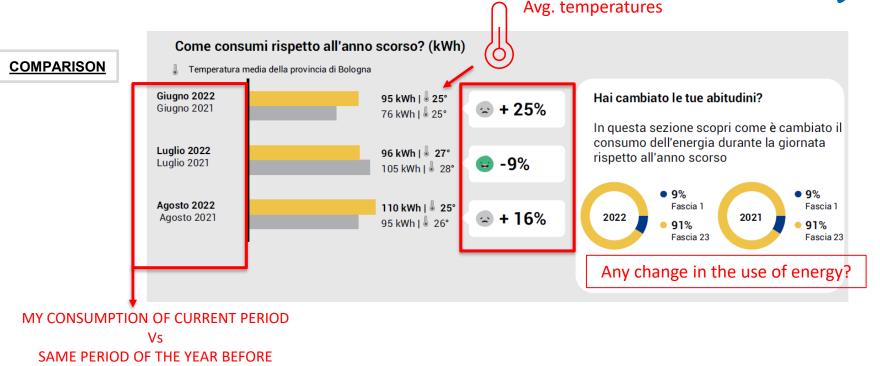


Similar customers \rightarrow same town, dimension of the house and n° of components

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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





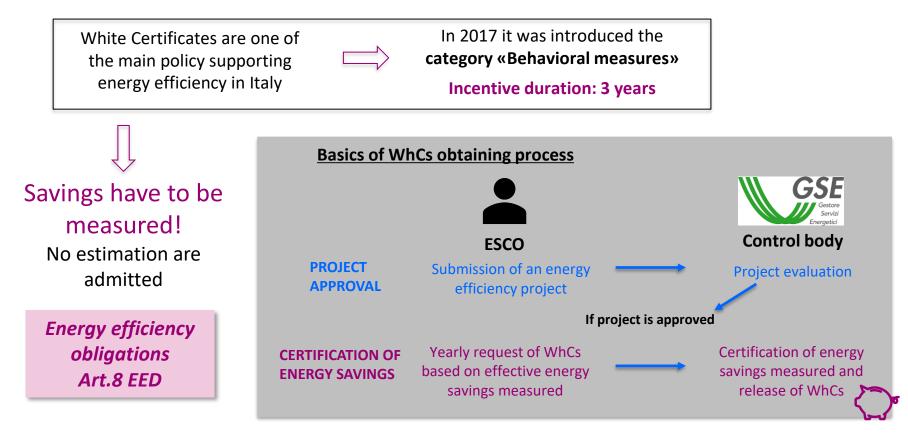
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Awarded with energy efficiency incentive of White Certificates

Integration with WhCs mechanism



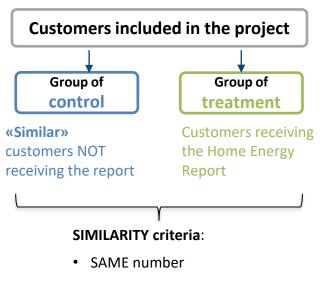


How savings are measured

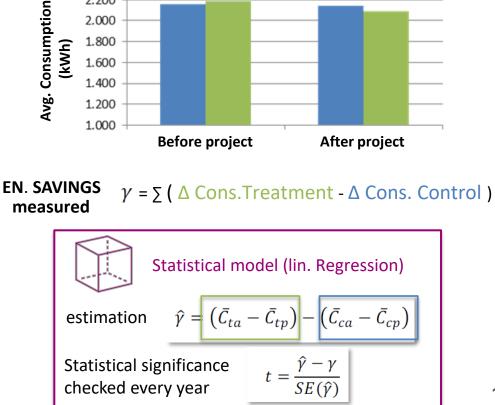
METHODOLOGY Differences in differences

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