



**H&M**

GROUP

# The H&M group through the years



*H&M* COS **WEEKDAY** MONKL

*H&M* HOME *& other stories* ARKET **AFOUND**



A woman with dark hair pulled back, wearing a white long-sleeved blouse with a ruffled collar and a beige skirt with a belt, stands on the steps of a brick building. She is holding a black coffee cup in her left hand. The building has a decorative window with a gold pattern. A bicycle is parked to the right. The scene is lit with warm, golden light, suggesting late afternoon or early morning.

FASHION and  
QUALITY at  
the best price in  
a SUSTAINABLE way

# Our ambitions

*“A company of our size and scale has a responsibility as well as a great opportunity to lead the change towards a more sustainable fashion and design future.”*

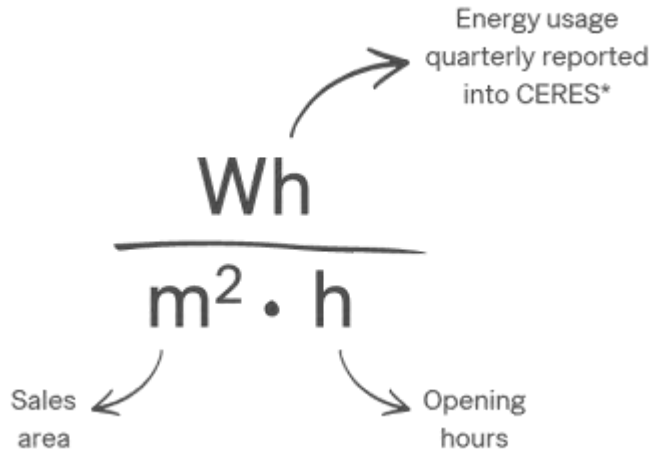
Anna Gedda, Head of Sustainability, H&M group



## SUSTAINABILITY GOAL- ENERGY EFFICIENCY

-25% by 2030

Total energy efficiency improvement in the portfolio compared to 2016

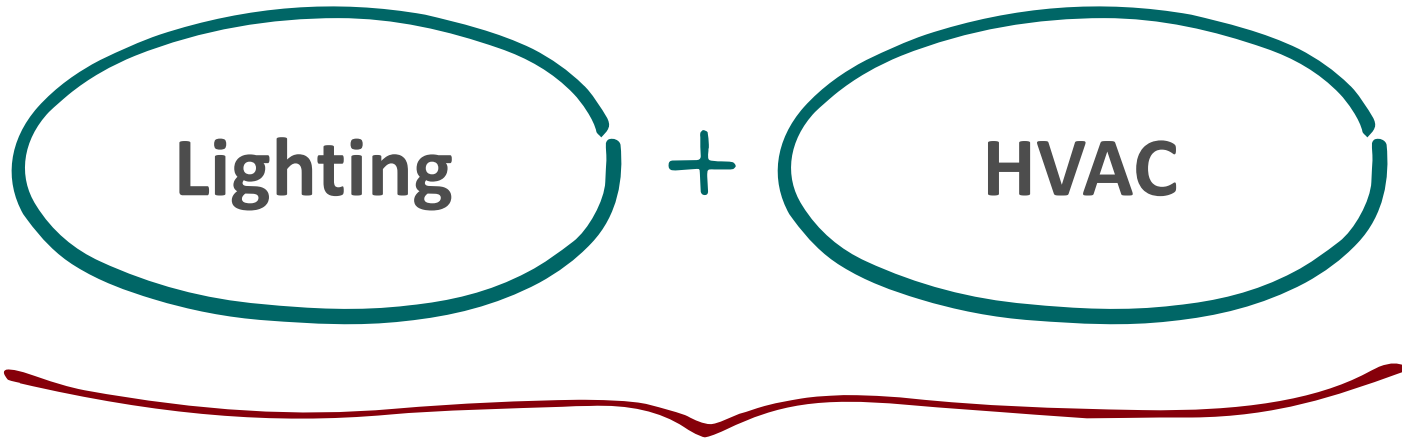


What is the *average* power intensity for this store during a given time period?



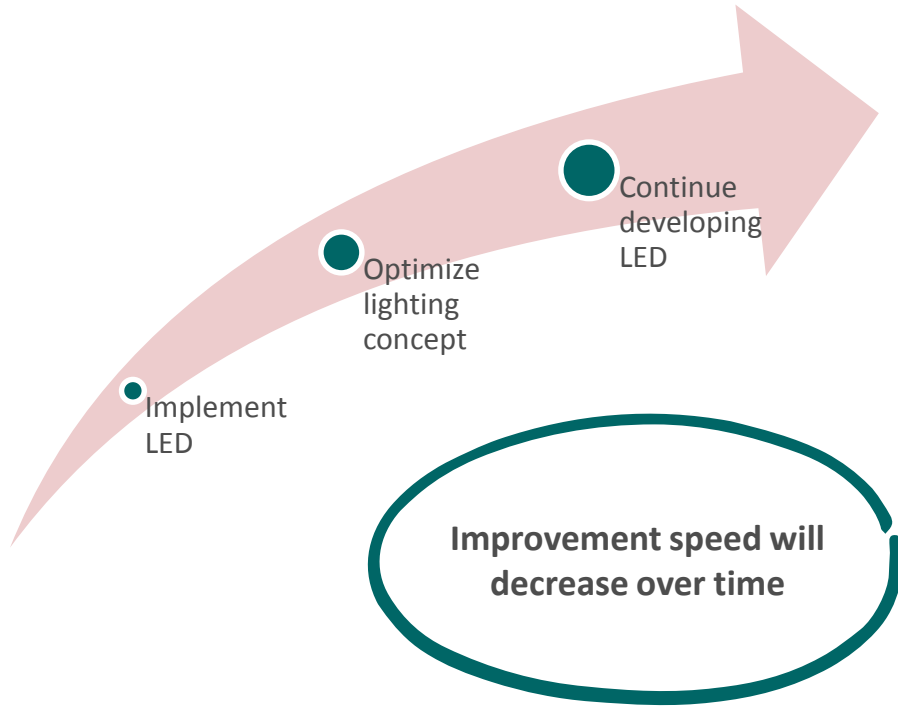
## ENERGY EFFICIENCY – LONG TERM GOAL FOCUS AREAS

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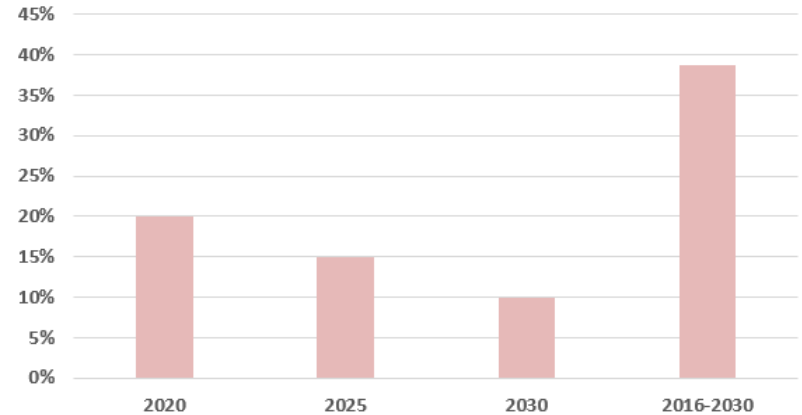


**90% of the Energy Consumption**

# ENERGY EFFICIENCY – LONG TERM GOAL LIGHTING



### LIGHTING EFFICIENCY DEVELOPMENT



...at the end of 2030, our stores will become **more efficient** than our existing stores

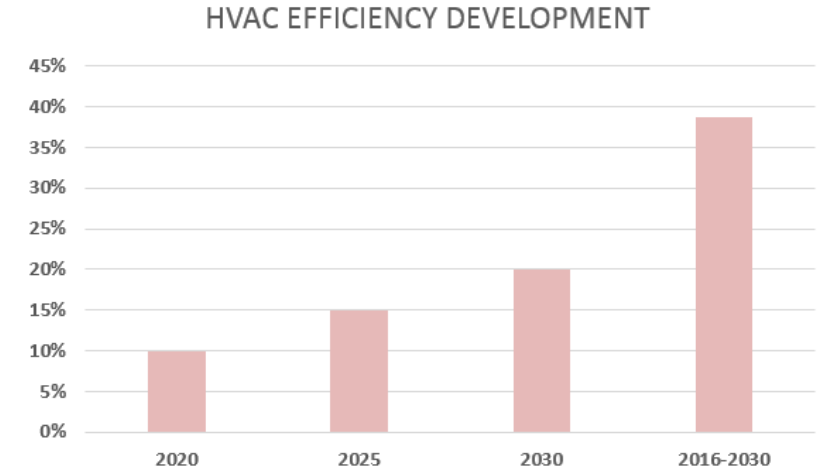
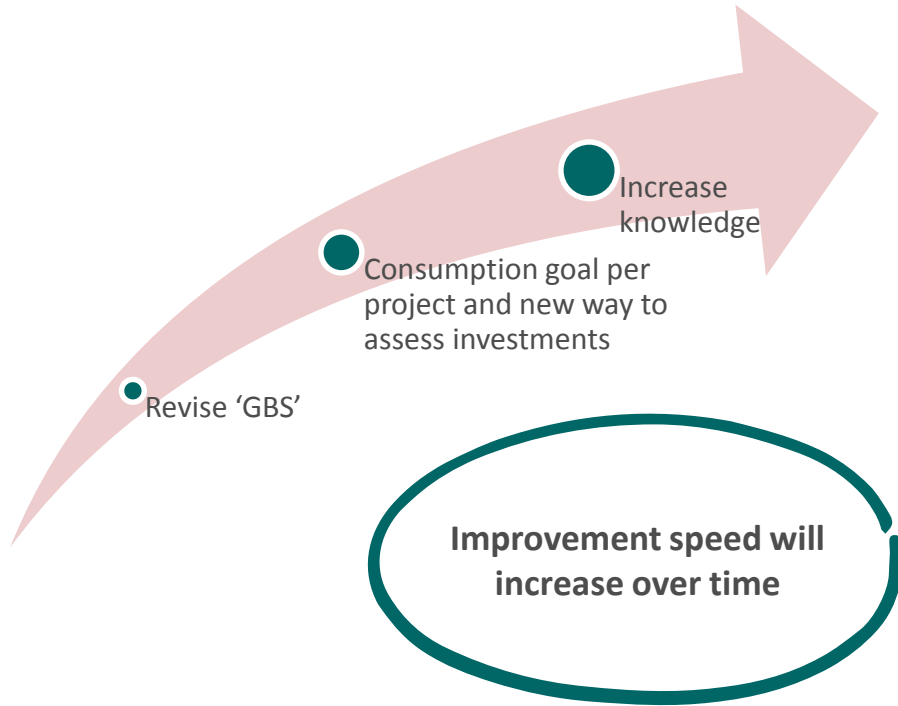


**40%**





# ENERGY EFFICIENCY LONG TERM GOAL- HVAC



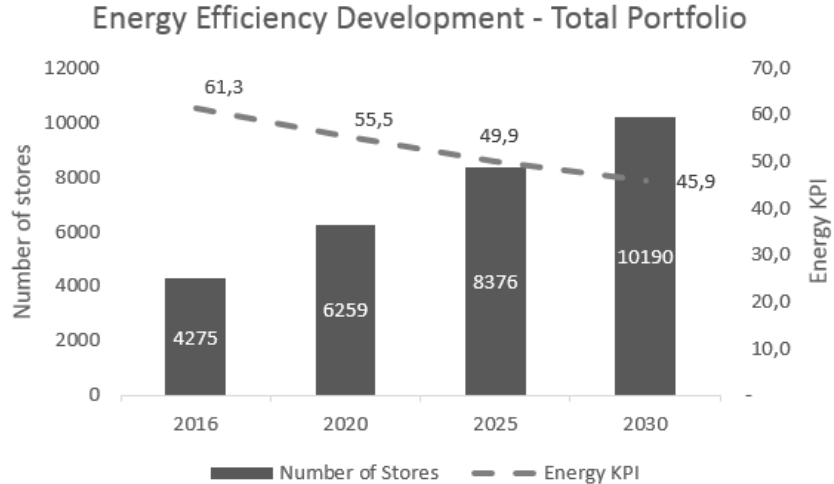
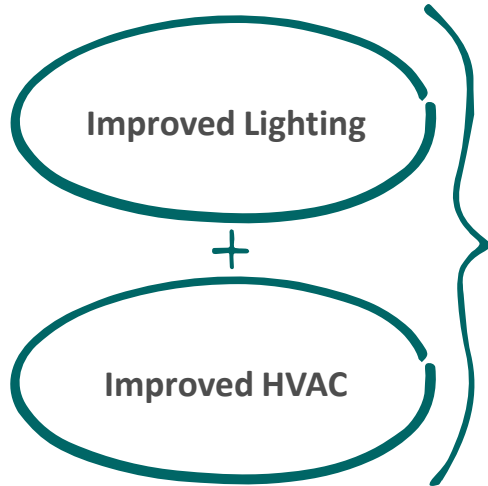
...at the end of 2030, our stores will become **more efficient** than our existing stores



**40%**



## ENERGY EFFICIENCY LONG TERM GOAL- HVAC



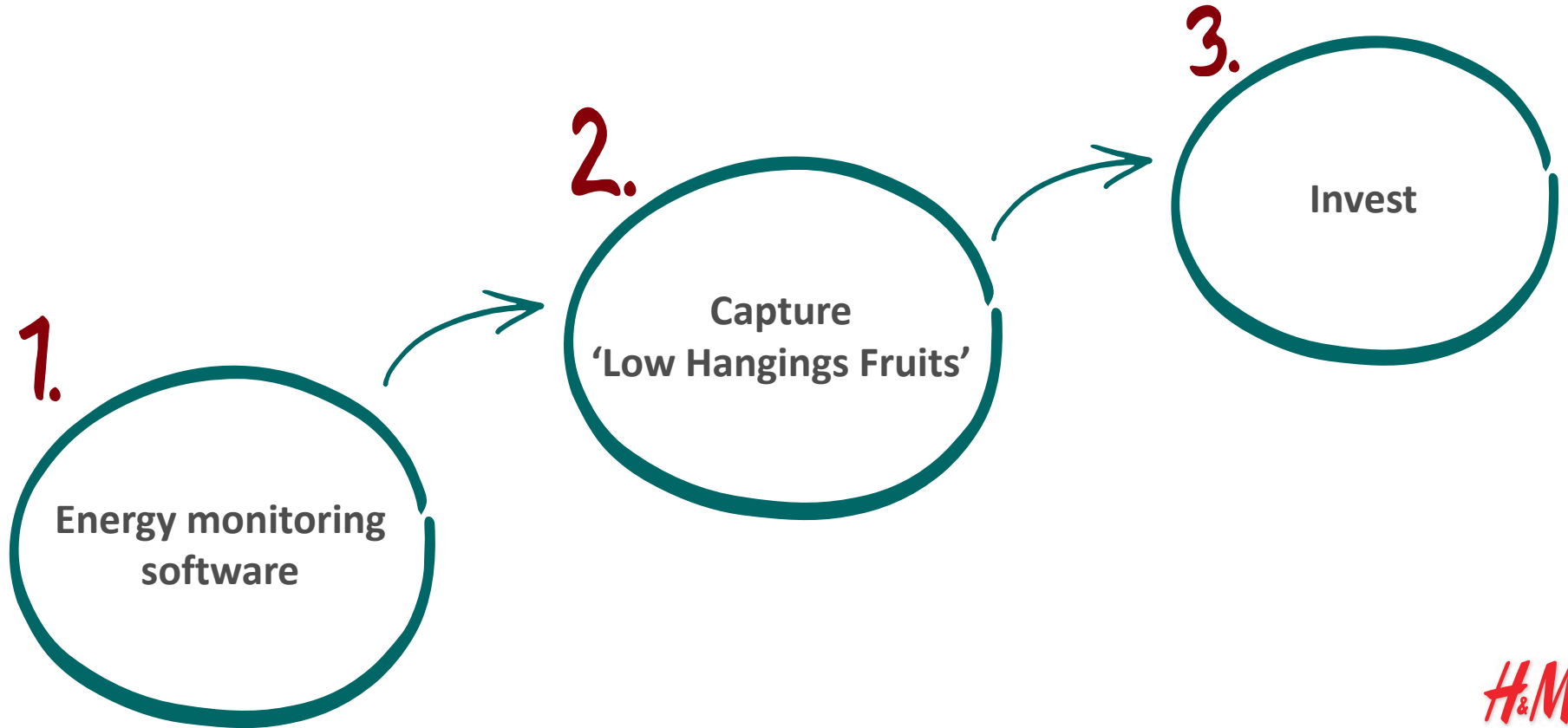
In **2030** we will achieve a total energy efficiency **improvement by 25%** in the portfolio compared to 2016. Which will also mean that:

- Energy KPI for the total portfolio will be 45,9 [Wh/m<sup>2</sup> & opening hour]
- New stores and rebuilds will be 40% more efficient than existing stores in 2016



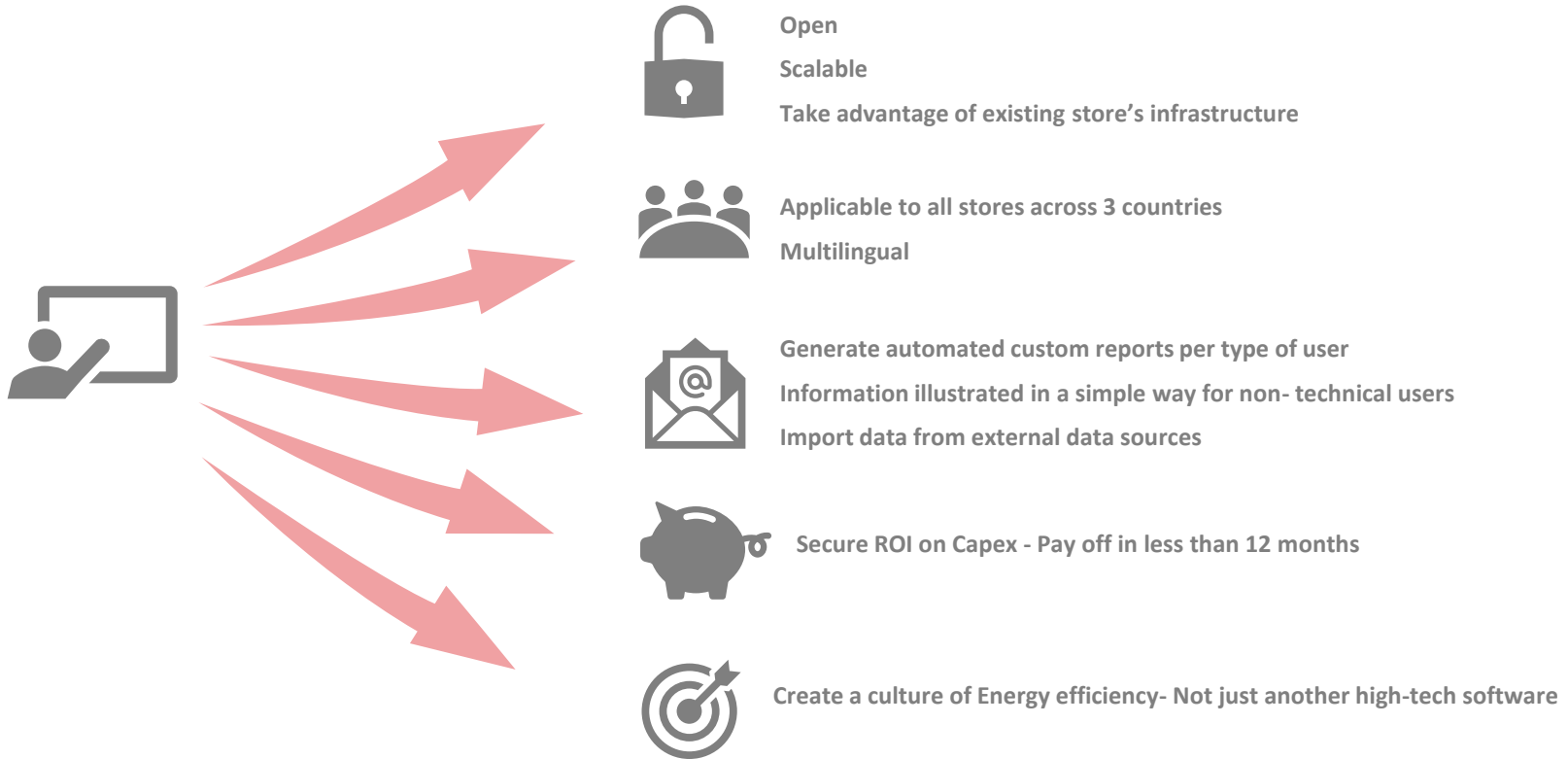
## ENERGY EFFICIENCY HIGH LEVEL STRATEGY

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# ENERGY MONITORING SOFTWARE-PROJECT OBJECTIVES

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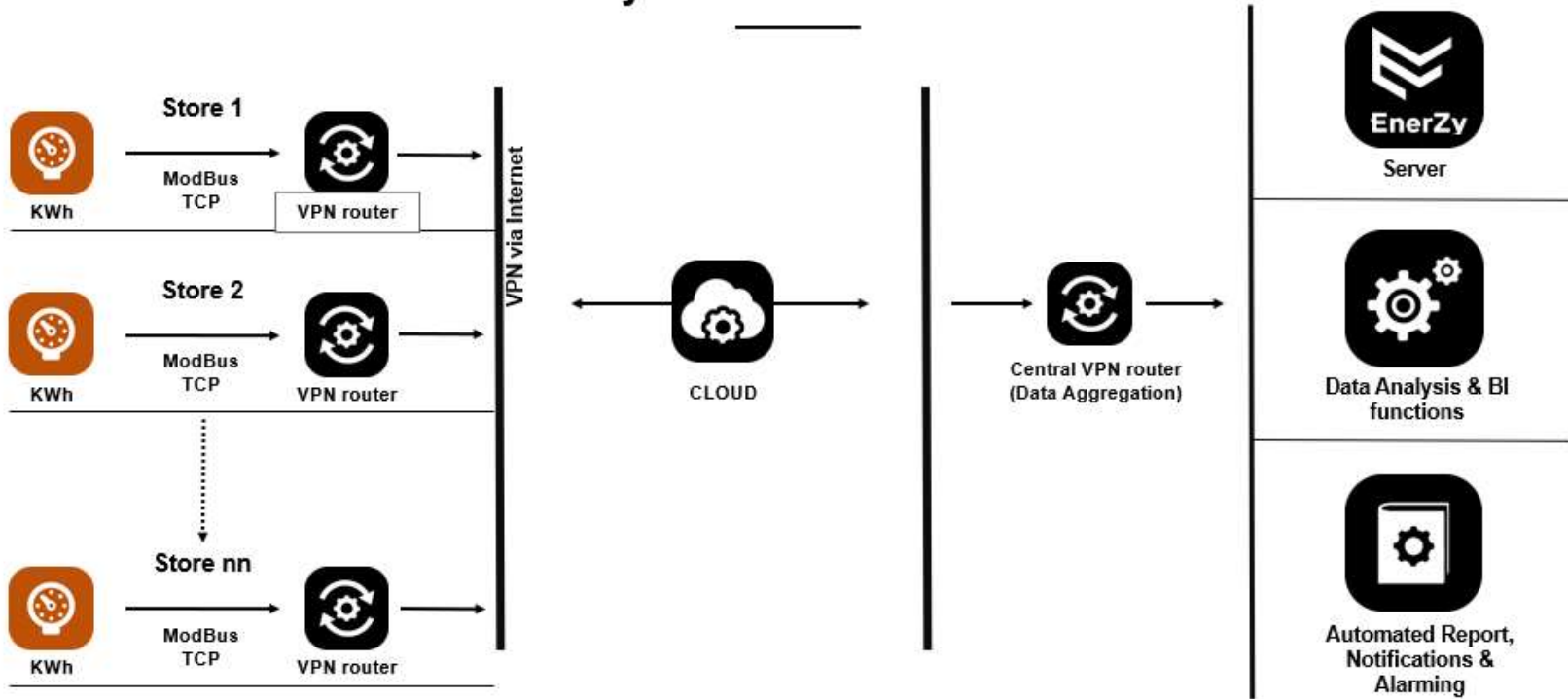


## Teamwork



# ENERGY MONITORING SOFTWARE- SYSTEM ARCHITECTURE

## System Architecture



Scalability: From a unique Energy Meter to a full Building Management System





# ENERGY MONITORING SOFTWARE- SYSTEM ARCHITECTURE



Weather Data Correlation



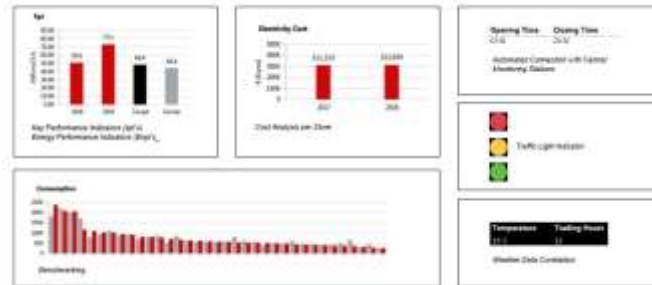
Server



Financial Data Correlation



Automated Connection with Central Monitoring Stations



Business Intelligence Tools



Automated Report, Notifications & Alarming



## REPORTING-ONE PAGER SET UP

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Reports to Stores:

Daily

Weekly

Monthly

Quarterly

Half Year

Yearly



# REPORTING-ONE PAGER SET UP

Reports to Stores:

Daily

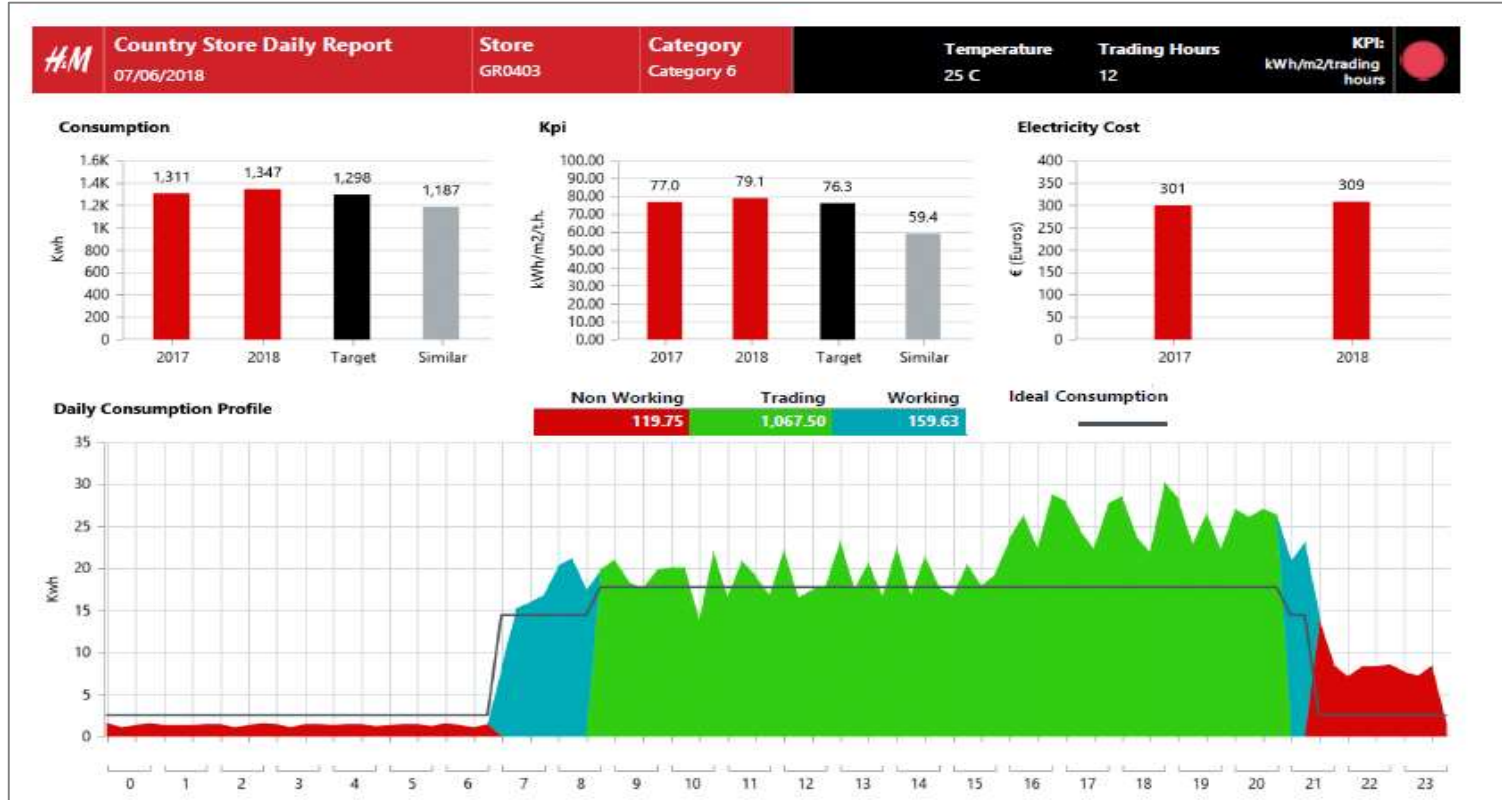
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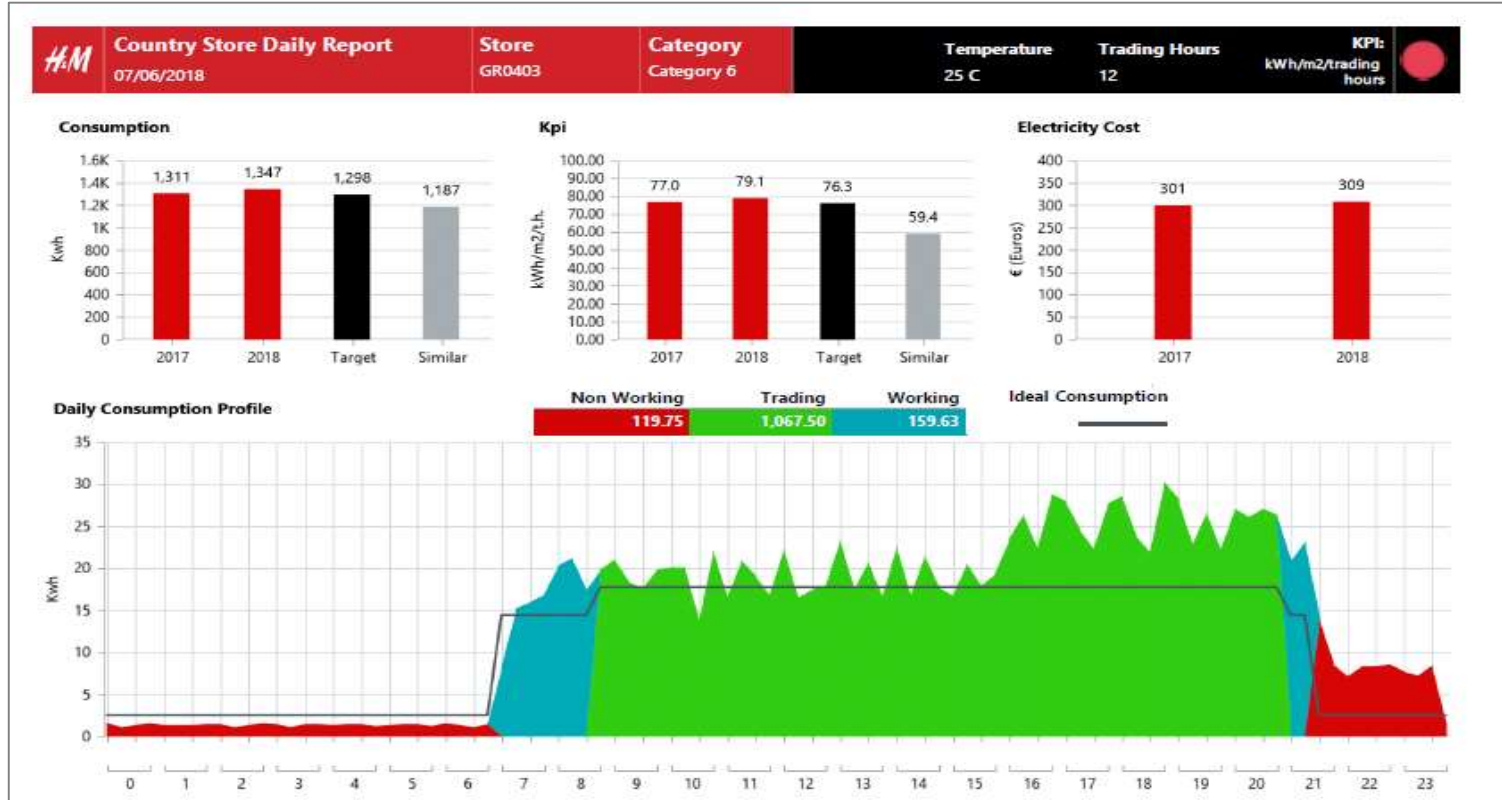
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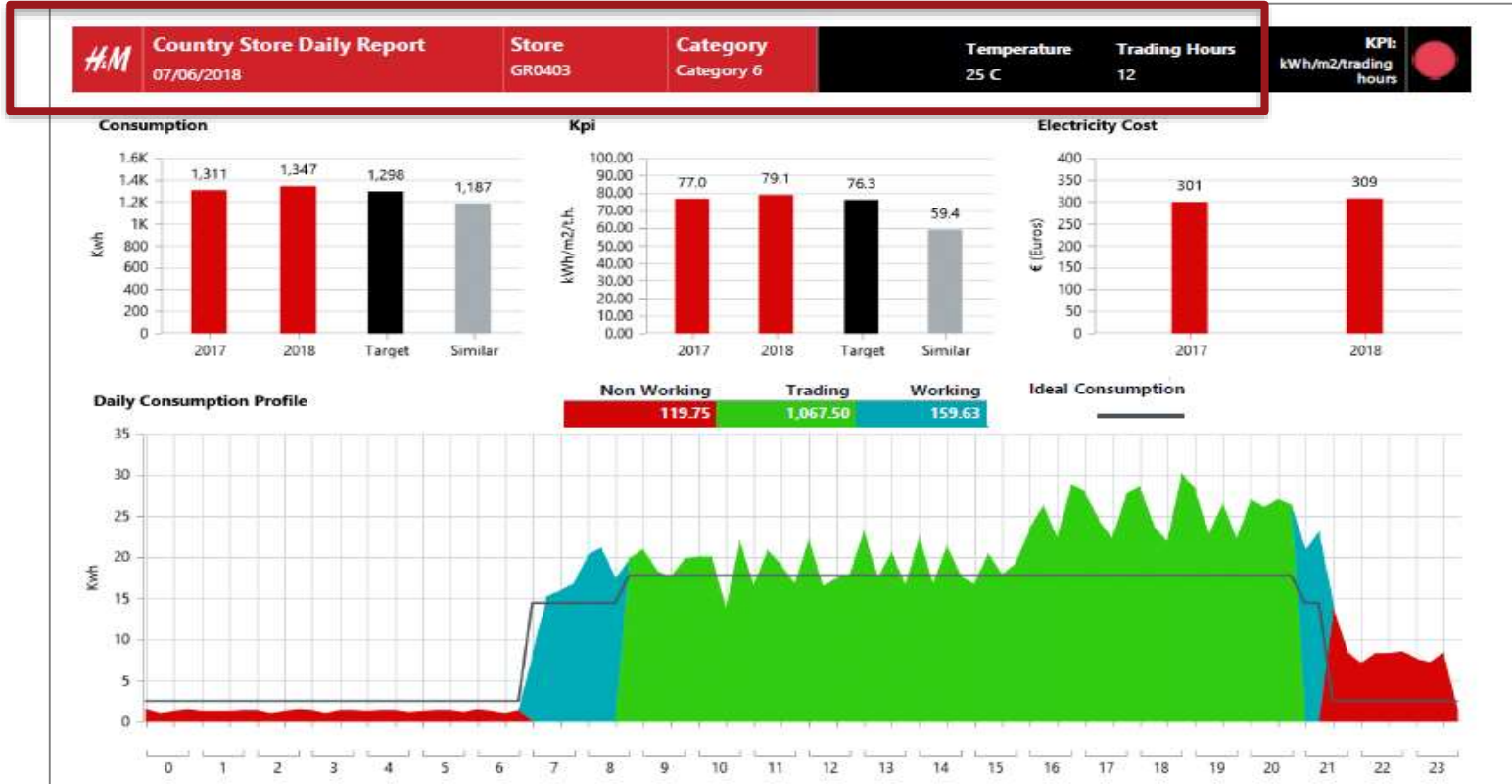
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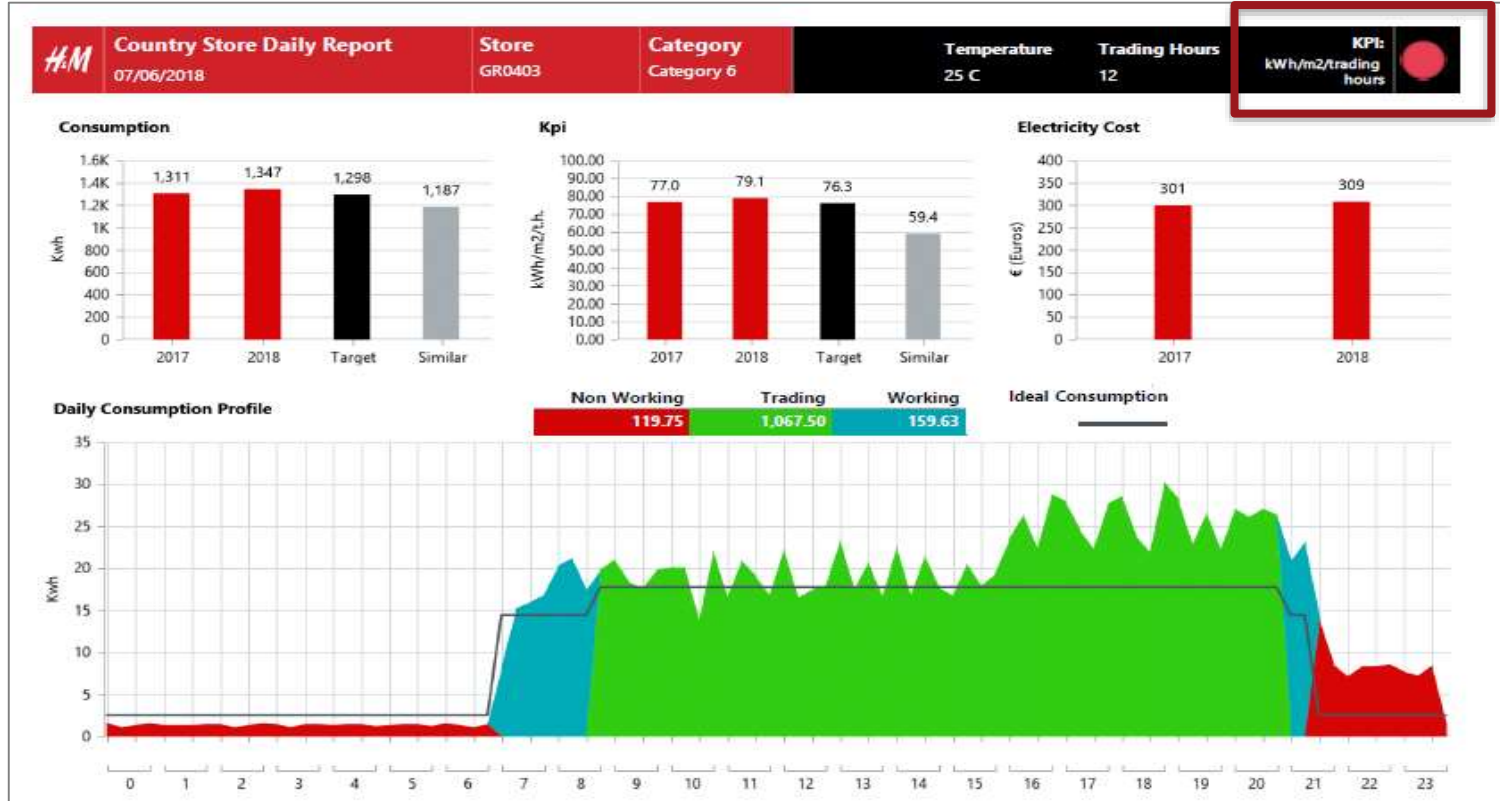
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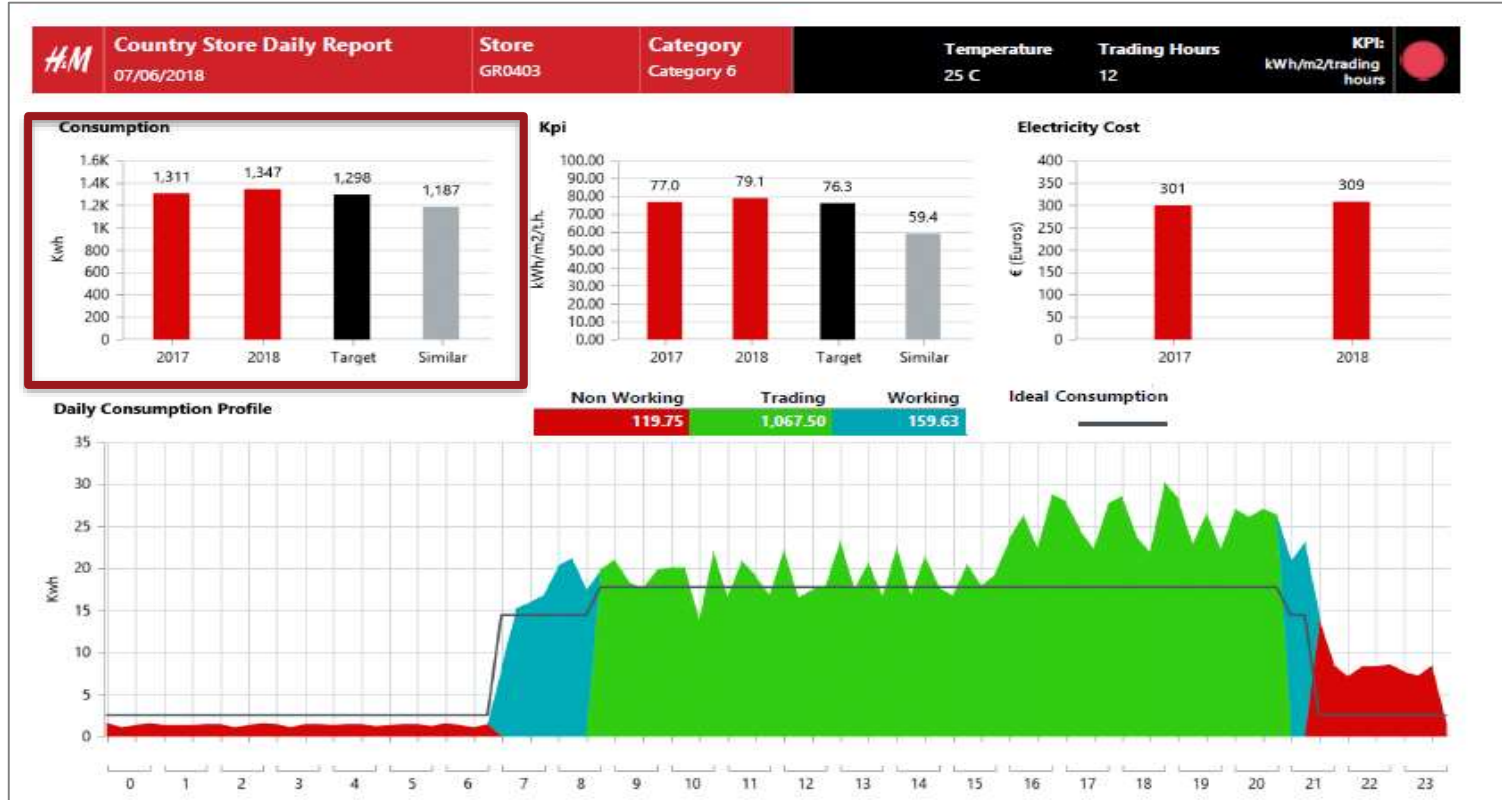
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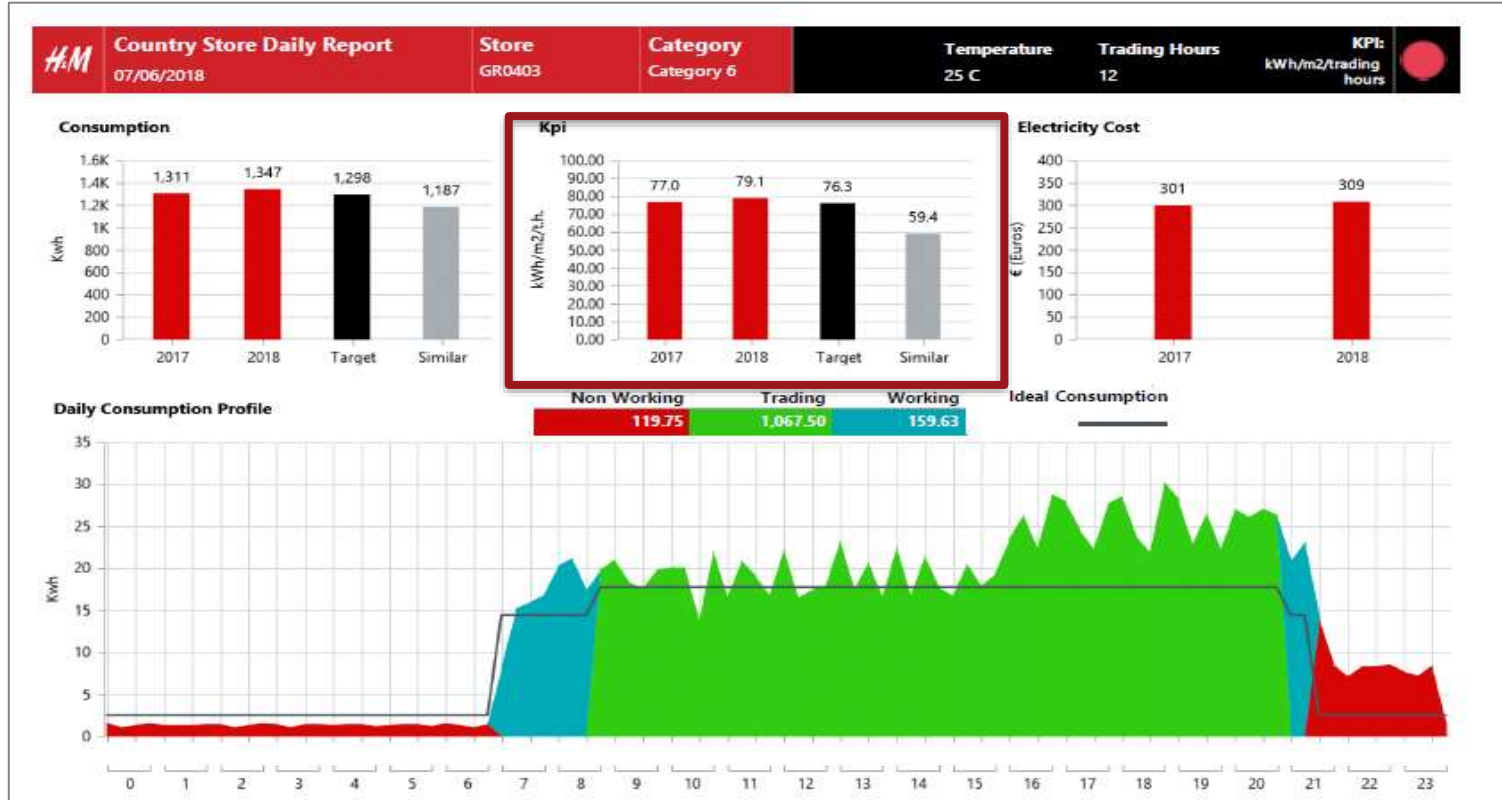
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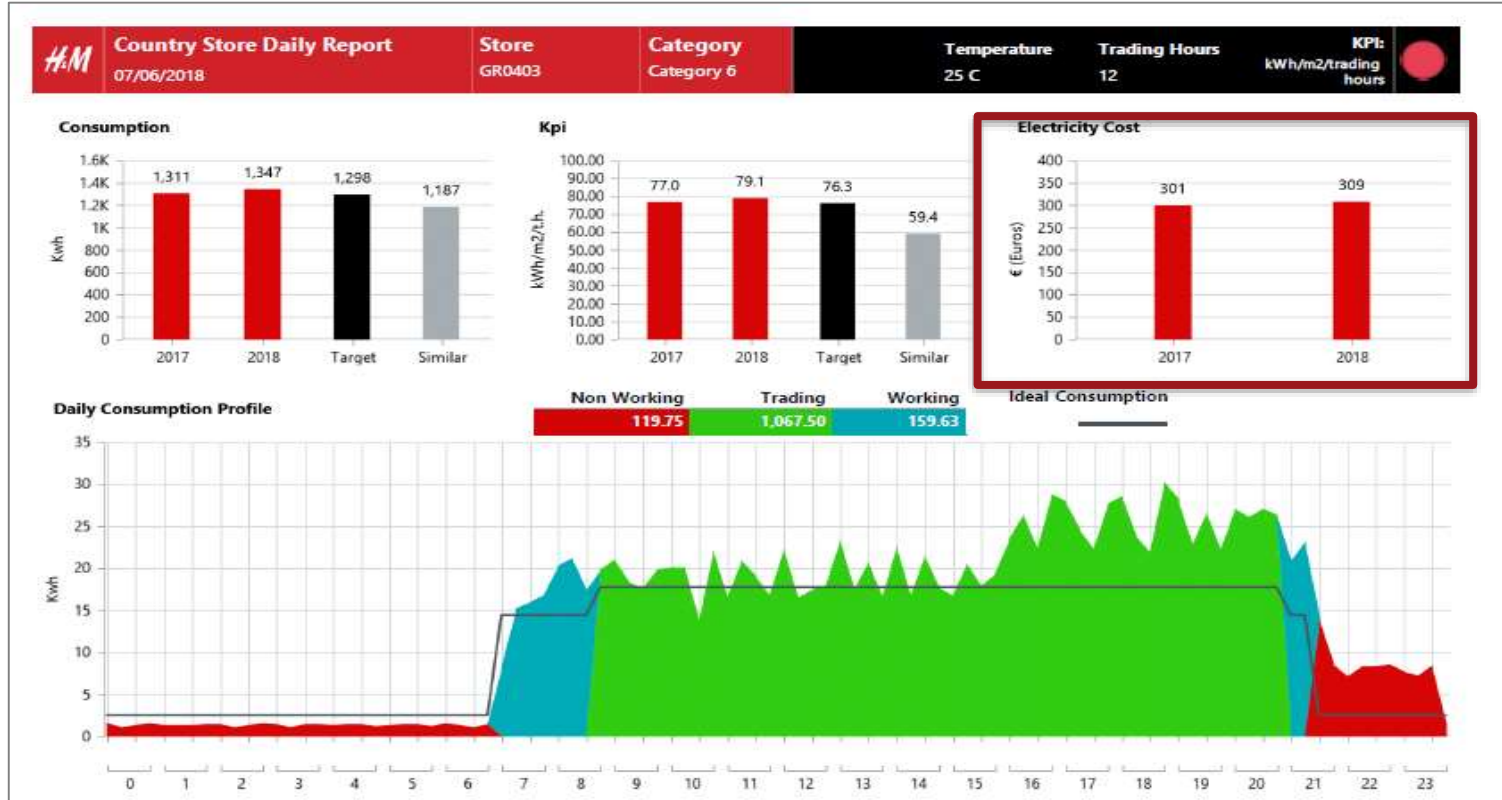
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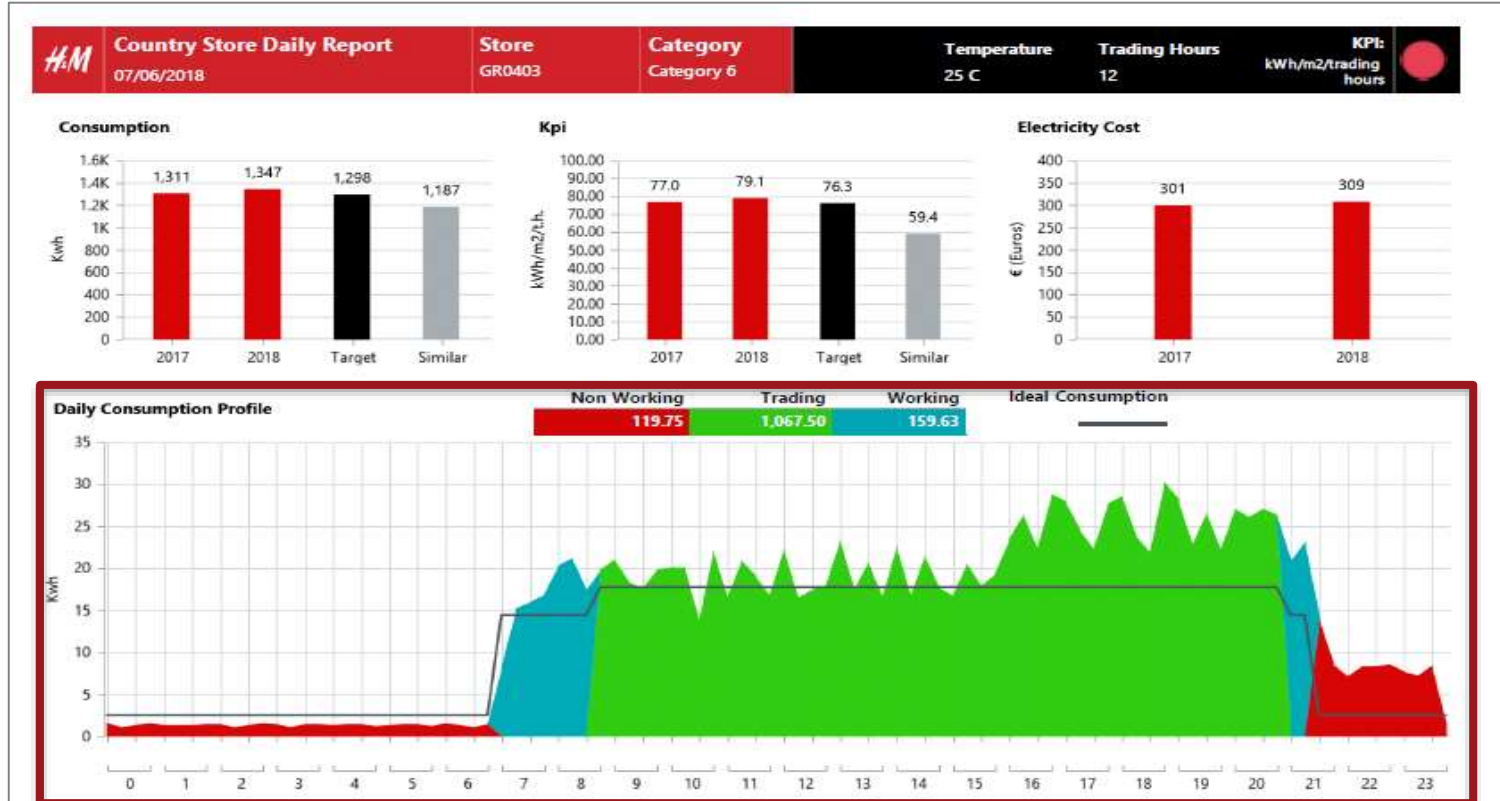
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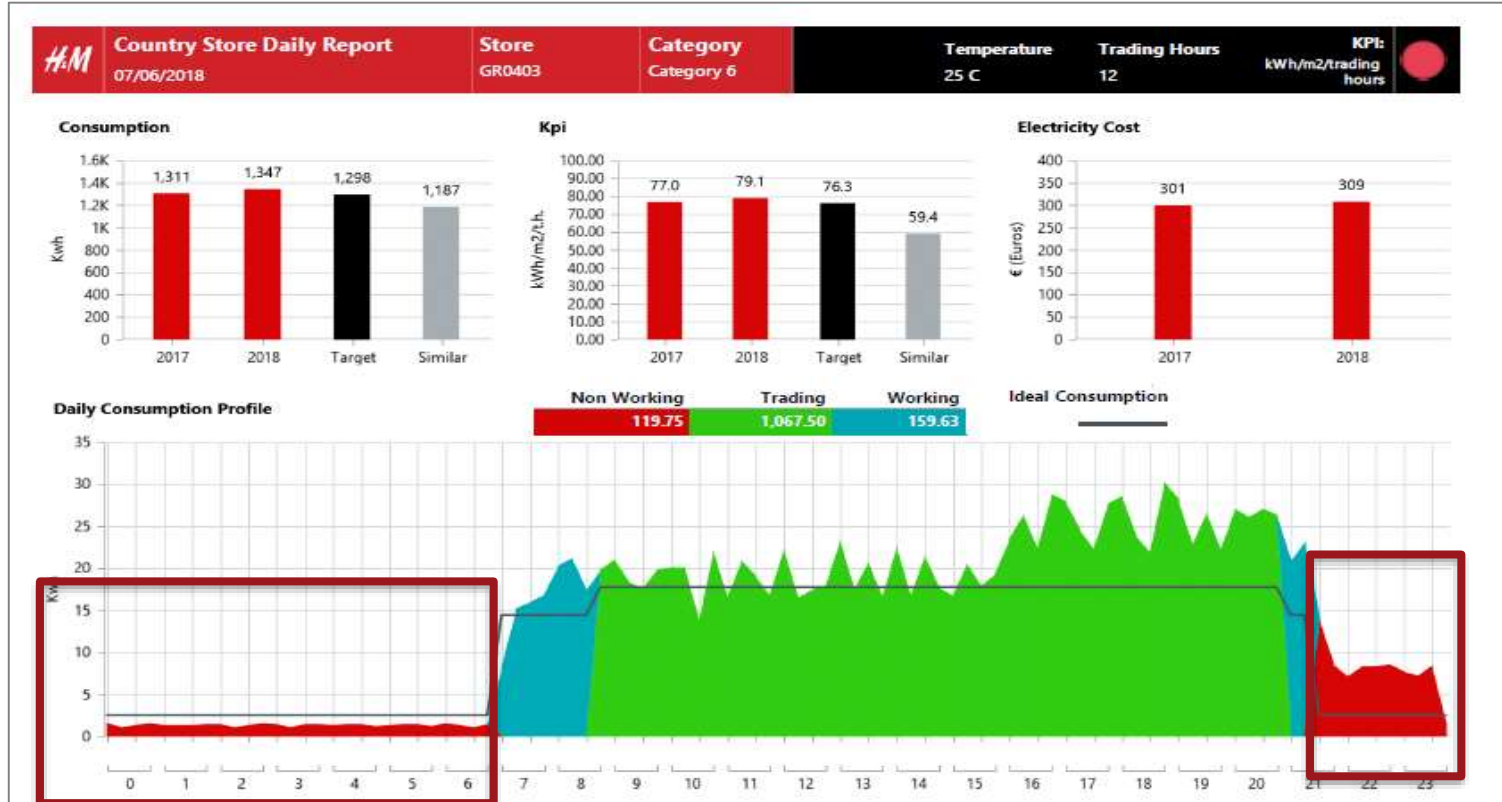
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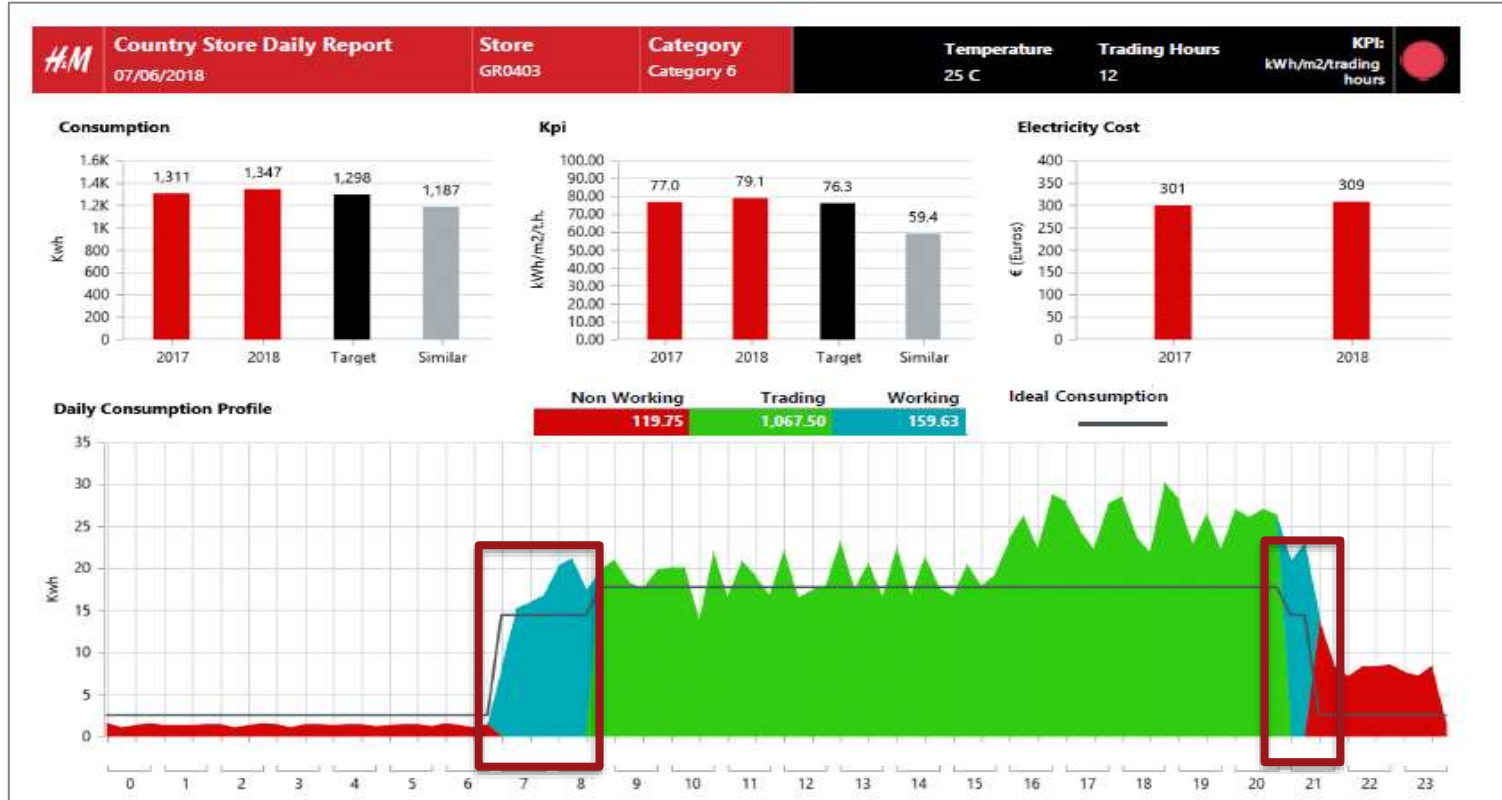
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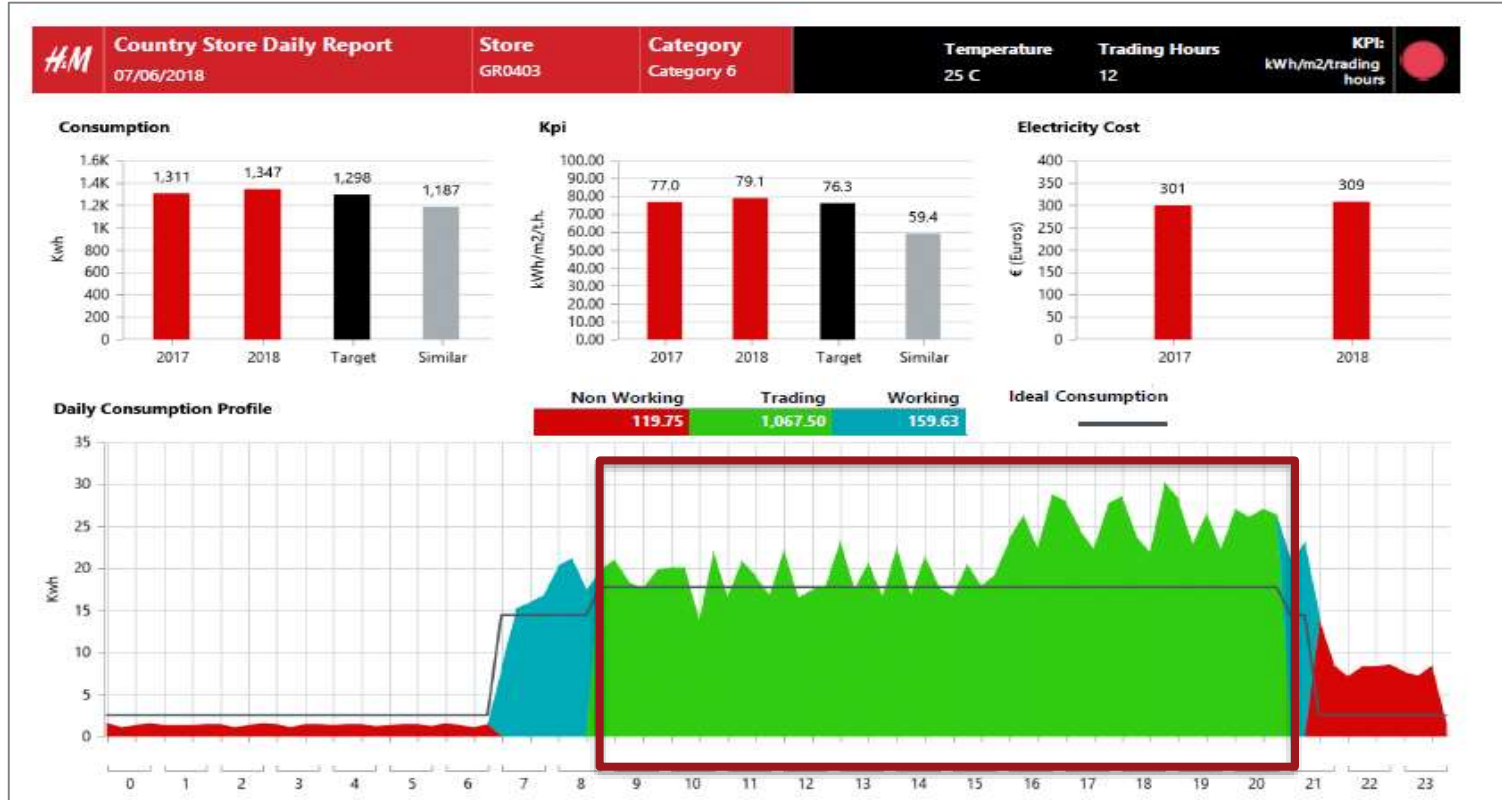
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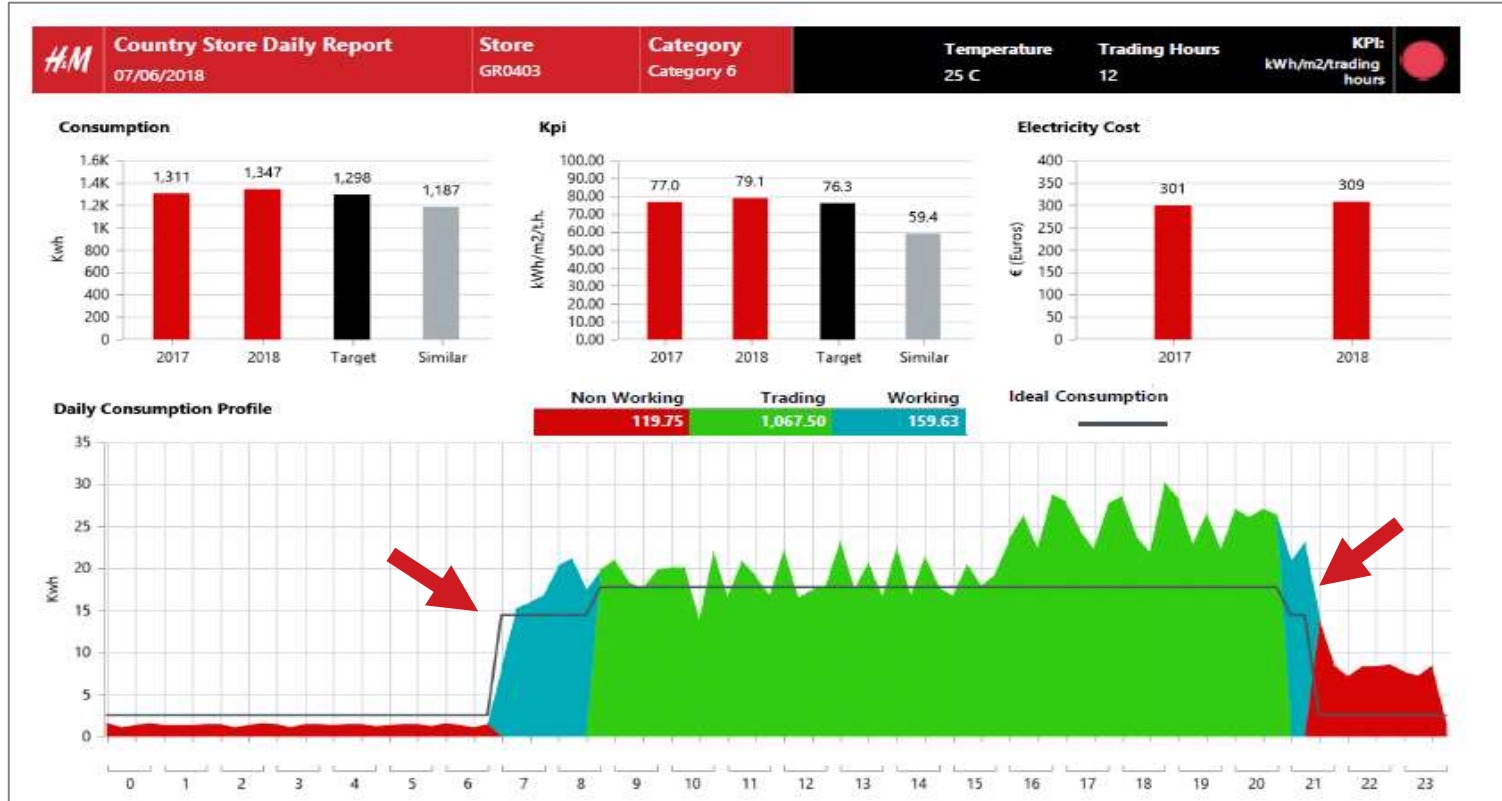
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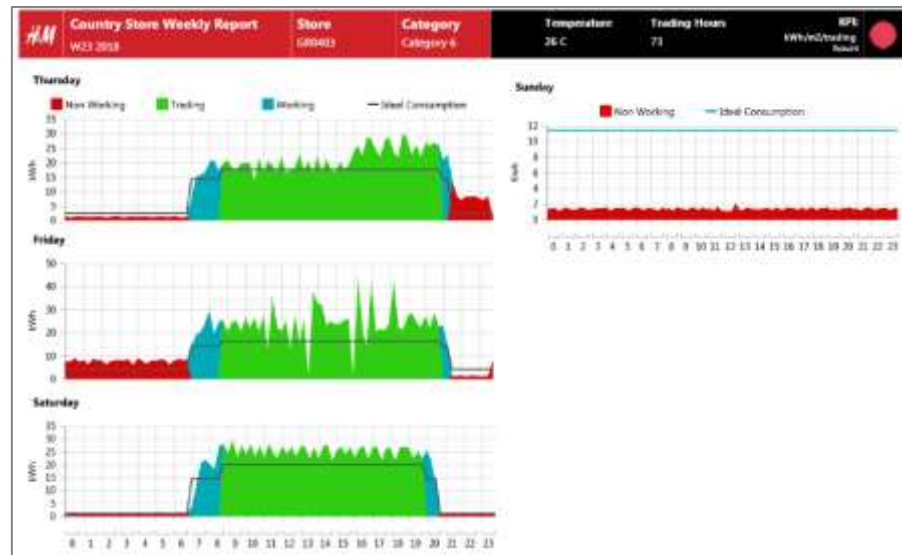
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## KEY LEARNINGS

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### PROS

- Energy Data Measurement and Evaluation = Energy Baseline
- Targeted Investments require Data-Driven Management Decisions
- Employee Engagement is key

### CONS

- Plug and play does not always work = more time for the implementation
- Modelling the data and cross checking the data accuracy takes time = extra resources needed



**H&M**

**Thank You**