

ENVIRONMENTAL BENEFITS OF NEW ENERGY LABELS

Understanding the impacts and drivers

UNDERSTANDING THE ENVIRONMENTAL BENEFITS



- *The introduction of the new energy labels is expected to increase the efficiency of products on the market, and reduce environmental impacts*
- *BELT aims to help understand impact of increased efficiency at a user level and at country/EU level*
- *Webtool developed to communicate benefits at the user level based on estimated energy consumption*
- *Excel tool created to estimate future environmental benefits at the EU and target country level*



WEBTOOL

- *Tool designed to help consumers understand what the energy label means in terms of energy consumption and electricity costs*
- *Energy consumption estimates based on the standard energy consumption as described on the energy label regulations*
- *Average parameters such as dimensions, regularity of use, etc. defined with help of industry experts*

Example of interface user - Dishwasher

Your country

Capacity of the dishwasher

Number of cycles per week

Results

	Annual energy consumptions (kWh per year)	Electricity costs (euros per year)	Associated CO ₂ emissions (kg per year)	Number of trees required to absorb the CO ₂	Km of driving a car equivalent
A	101	29	17	1.7	136
B	122	35	20	2.0	164
C	143	41	24	2.4	192
D	164	46	27	2.7	221
E	185	52	31	3.1	249
F	206	58	34	3.4	277
G	226	64	38	3.8	305

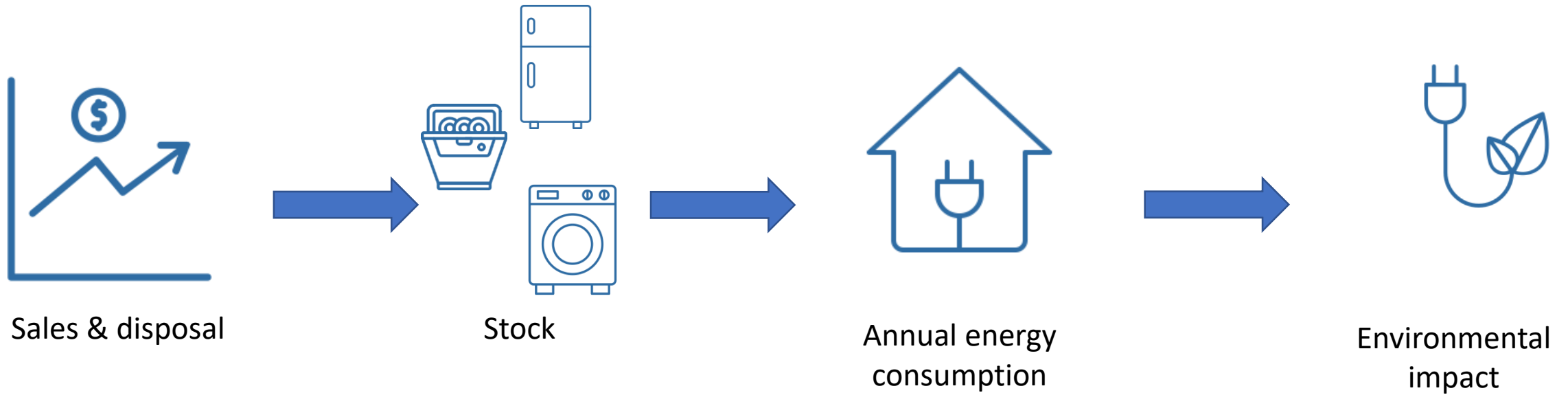
ENVIRONMENTAL BENEFITS – COUNTRY/EU LEVEL



- *Tool designed to estimate the environmental benefits of the introduction of the new labels*
- *Flexible tool designed to estimate benefits of the introduction of the new labels under different scenarios*

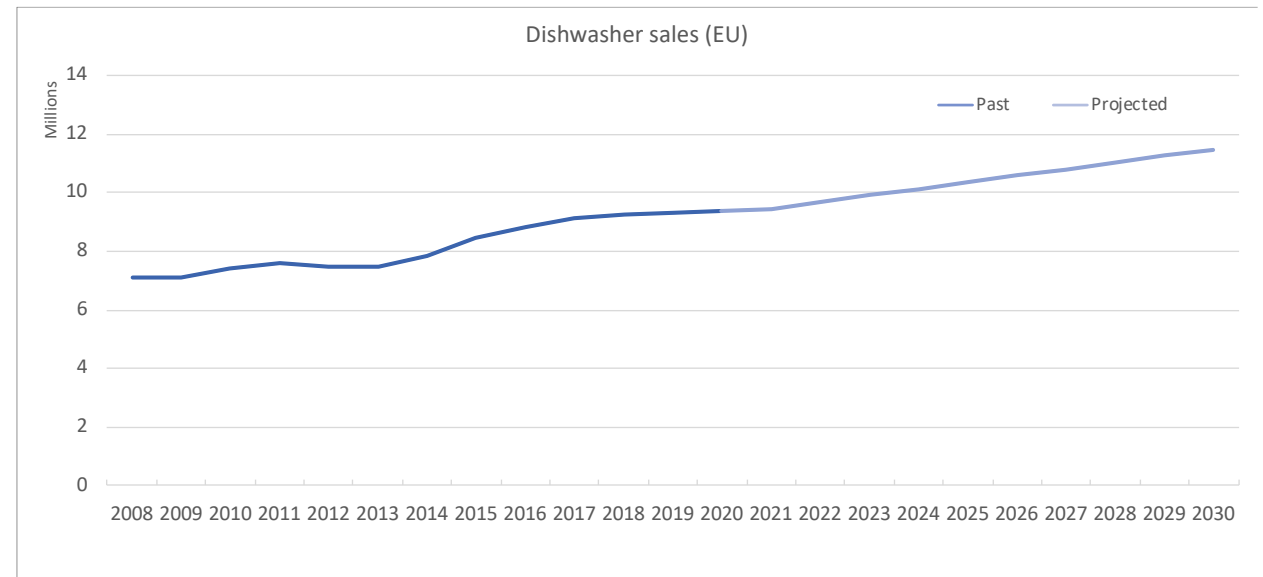
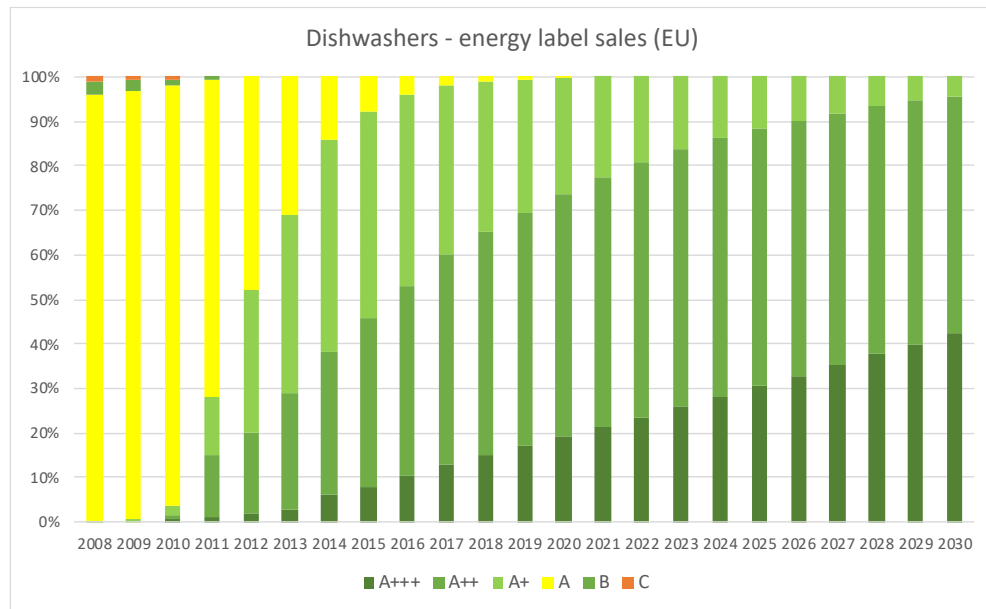


ENVIRONMENTAL BENEFITS – COUNTRY/EU LEVEL



PAST AND FUTURE SALES – BASELINE SCENARIO

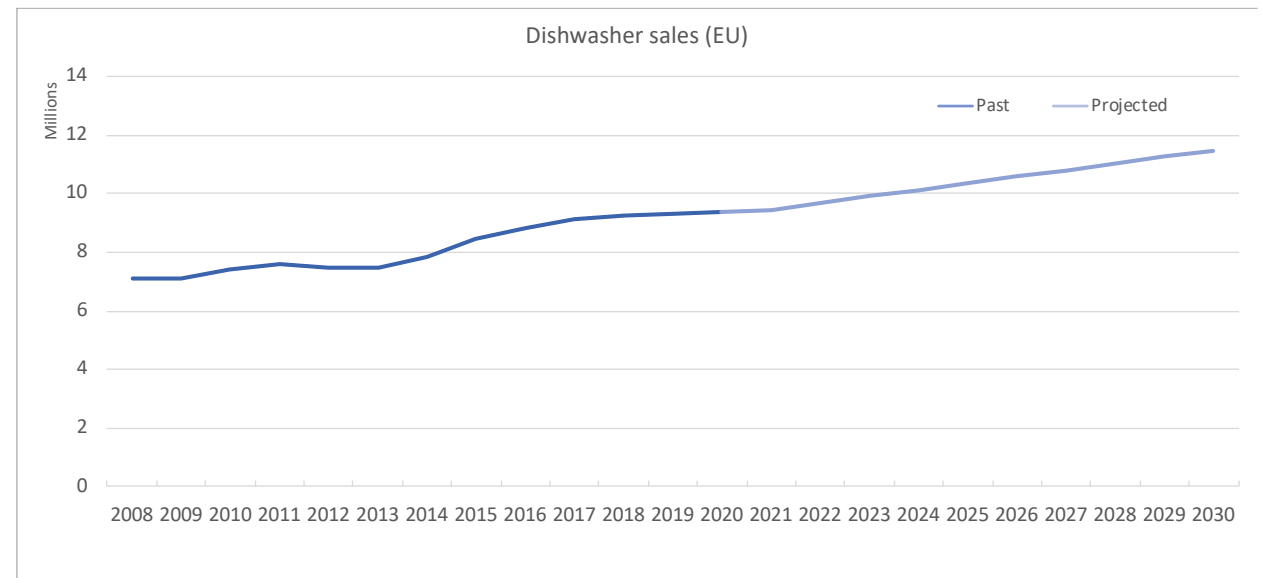
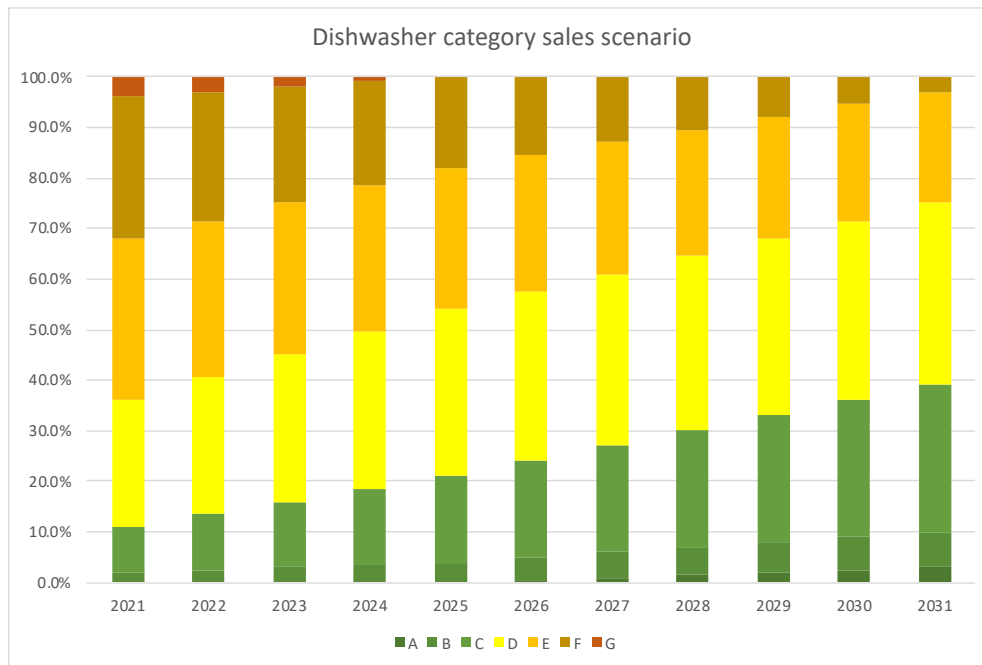
- *Past sales scenarios obtained from industry associations and literature where possible*
- *Future total sales scenarios from literature*
- *Future sales per energy label category developed as example for tool*



Total sales and sales per energy label category 2008 – 2018: APPLiA
Sales 2020 – 2030: VHK2014

FUTURE SALES – NEW LABELS SCENARIO

- *Future total sales scenarios from literature*
- *Future sales per energy label category developed as example for tool*



Total sales 2008 – 2018: APPLiA
Sales 2020 – 2030: VHK2014

ENVIRONMENTAL BENEFITS OF NEW LABELS

EU28

Savings from 2021 until:	2021	2026	2031
GWh Primary Energy saved	608	17,380	54,167
ktonnes CO ₂ saved	199	5,596	17,331
Tonnes air pollutants	17.6	515	1,658
Tonnes particulate matter	23.9	696	1,588
Million euros saved for consumers	100	2,967	9,749

BELT
primary
target
countries

Savings from 2021 until:	2021	2026	2031
GWh Primary Energy saved	182	5,214	16,250
ktonnes CO ₂ saved	60.0	1,679	5,199
Tonnes air pollutants	5.28	154	497
Tonnes particulate matter	7.17	209	476
Million euros saved for consumers	30.2	890	2,924

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3% of CO₂ emissions from residential and commercial sector in 2017

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TOOL DATA WILL BE UPDATED BY THE END OF THE PROJECT



- *The current results are based on simple projections assuming a fixed improvement*
- *Real market data will soon be available and will allow to refine estimates*
- *The tool approach would also allow to make emission reduction oriented sales goals*
- *CO₂ emissions are also affected by changing energy mixes per country*



THANK YOU

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