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efficiency

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#### CLEAN ENERGY FOR ALL EUROPEANS PACKAGE

#### "ENERGY EFFICIENCY FIRST"



**Energy Union Governance** 



### **Energy Efficiency**

(Energy Efficiency Directive, European Performance of **Buildings Directive**)



#### Renewables

(Revised Renewable Energy Directive)



**New Electricity Market Design** (including Risk Preparedness)



**Energy prices** and costs report



#### **Energy Efficiency** Directive

 32.5% energy efficiency target for 2030;





**Ecodesign Working Plan** 2016-2019

- List of new product groups;
- Contribution to circular economy objectives;



## **Energy Performance** of Buildings

- Supportive of renovation;
- Smarter ICT, smart buildings;
- · Simpler;



#### **ENERGY EFFICIENCY FINANCING**

# A SIGNIFICANT INVESTMENT GAP

Investment expenditures in billion EUR'10 (average annual 2021-30)		REF2016 (BAU)	EUCO30	EUCO35	Financing challenge (EUCO30)	
Demand	Industry	15	19	29	4	14
side	Buildings - households	127	214	337	87	210
	Buildings - tertiary	23	68	157	45	134
	Transport	705	736	733	31	28
Supply	Grid	34	36	31	2	-3
side	Generation and industrial boilers	33	42	37	9	4
TOTAL		937	1115		178	387



#### **ENERGY EFFICIENCY FINANCING**

### **SMART FINANCE FOR SMART BUILDINGS**

# More effective use of public funds

- Deploying Financial Instruments and flexible energy efficiency and renewable financing platforms
- Building on EFSI blending with ESIF funds



# Assistance and aggregation

- Supporting the project pipeline at EU and local level
- Project Development
   Assistance facilities
- "One-stop-shops"



# **De-risking**

- Understanding the risks and benefits for financiers and investors
- The De-risking Energy Efficiency Platform
- Commonly accepted underwriting framework





#### **ENERGY EFFICIENCY AND SMARTNESS**

#### A COMPLEMENTARY SET OF POLICY ACTIONS



**Ecodesign Working Plan**2016-2019



Energy Performance of Buildings

Remotely readable meters and heat cost allocators for heating, cooling and hot water

Control capabilities of products;

Energy smart appliances;

Building Automation and Control Systems (BACS) Requirements on the installation of control devices, including BACS;

Requirements on electromobility infrastructure;

Smart Readiness Indicator

Consumer information, metering

Smart and efficient energy-consuming products

Smart buildings



#### SMART READINESS INDICATOR FOR BUILDINGS

#### AN EU LABEL FOR SMART BUILDINGS

- "An optional common Union scheme for rating the smart readiness of buildings"
- (...) The rating shall be based on an assessment of the capabilities of a building or building unit to adapt its operation to the needs of the occupant and the grid and to improve its energy efficiency and overall performance (...)"

Article 8(10) of the revised EPBD.



# **Smart Readiness Indicator - SRI**

Measure the technological readiness of your building













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https://ec.europa.eu/energy/en/topics/energy-efficiency/buildings