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ANNEX II

TEMPLATE FOR THE NATIONAL BUILDING RENOVATION PLANS

(referred to in Article 3)

EPBD Article 3	Mandatory Indicators	Optional Indicators / comments
(a) Overview of the national building stock	Number of buildings and total floor area (m ²): <ul style="list-style-type: none">— per building type (including public buildings and social housing)— per energy performance class— NZEB— worst-performing (including a definition)	Number of buildings and total floor area (m ²): <ul style="list-style-type: none">— per building age— per building size— per climatic zone— demolition (number and total floor area)
	Number of energy performance certificates: <ul style="list-style-type: none">— per building type (including public buildings)— per energy performance class	Number of energy performance certificates: <ul style="list-style-type: none">- per construction period

	<p>Annual renovation rates: number and total floor area (m²)</p> <ul style="list-style-type: none"> — per building type — to nearly zero-energy building levels — per renovation depth (weighted average renovation) — deep renovations — public buildings 	
	<p>Primary and final annual energy consumption (ktoe):</p> <ul style="list-style-type: none"> — per building type — per end use <p>Energy savings (Ktoe):</p> <ul style="list-style-type: none"> — per building type — public buildings <p>Share of renewable energy in the building sector (MW generated):</p> <ul style="list-style-type: none"> — for different uses — on-site — off-site 	<p>Reduction in energy costs (EUR) per household (average)</p> <p>Primary energy demand of a building corresponding to the top 15% (substantial contribution threshold) and the top 30% (do no significant harm threshold) of the national building stock, as per the EU Climate Taxonomy Delegated Act</p> <p>Share of heating system in the building sector per boiler/heating system type</p>
	<p>Annual greenhouse gas emissions (kgCO₂eq/(m².y):</p> <ul style="list-style-type: none"> — per building type (including public buildings) <p>Annual greenhouse gas emission reduction (kgCO₂eq/(m².y):</p> <ul style="list-style-type: none"> — per building type (including public buildings) 	

	<p>Market barriers and failures (description):</p> <ul style="list-style-type: none"> – Split incentives – Capacity of construction and energy sector <p>Overview of the capacities in the construction, energy efficiency and renewable energy sectors</p>	<p>Market barriers and failures (description):</p> <ul style="list-style-type: none"> – Administrative – Financial – Technical – Awareness – Other <p>Number of:</p> <ul style="list-style-type: none"> – Energy service companies – construction companies – architects and engineers – skilled workers – one-stop-shops – SMES in the construction/renovation sector <p>Projections of the construction workforce:</p> <ul style="list-style-type: none"> - Architects/engineers/skilled workers retired - Architects/engineers/skilled workers entering the market - Young people in the sector - Women in the sector <p>Overview and forecast of the evolution of prices of construction materials and national market developments</p>
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	<p>Energy poverty (definition):</p> <ul style="list-style-type: none"> — % of people affected by energy poverty — proportion of disposable household income spent on energy — population living in inadequate dwelling conditions (e.g. leaking roof) or with inadequate thermal comfort conditions 	
	<p>Primary energy factors:</p> <ul style="list-style-type: none"> — per energy carrier — non-renewable primary energy factor — renewable primary energy factor — total primary energy factor 	
	<p>Definition of nearly-zero energy building for new and existing buildings</p>	<p>an overview of the legal and administrative framework</p>
	<p>Cost-optimal minimum requirements for new and existing buildings</p>	
<p>(b) Roadmap for 2030, 2040, 2050</p>	<p>Targets for annual renovation rates: number and total floor area (m²):</p> <ul style="list-style-type: none"> — per building type — worst-performing 	<p>Targets for expected share (%) of renovated buildings:</p> <ul style="list-style-type: none"> — per building type — per renovation depth

	<p>Target for expected primary and final annual energy consumption (ktoe):</p> <ul style="list-style-type: none"> — per building type — per end use <p>Expected energy savings:</p> <ul style="list-style-type: none"> — per building type 	<p>Share of energy from renewable sources in the building sector (MW generated)</p>
	<p>Targets for expected greenhouse gas emissions (kgCO₂eq/(m².y):</p> <ul style="list-style-type: none"> — per building type <p>Targets for expected greenhouse gas emission reduction (%):</p> <ul style="list-style-type: none"> — per building type 	<p>Split between emissions covered by Chapter III [stationary installations], Chapter IVa [new emissions trading for buildings and road transport] of Directive 2003/87/EC, and other stock;</p>
	<p>Expected wider benefits</p> <ul style="list-style-type: none"> — Creation of new jobs — % reduction of people affected by energy poverty 	<p>— Increase of GDP (share and billion Euros)</p>
	<p>Contribution to Member State's binding national target for greenhouse gas emissions pursuant to [revised Effort Sharing Regulation]</p>	
	<p>Contribution to the Union's energy efficiency targets in accordance with Directive (EU) .../... [recast EED] (share and figure in ktoe, primary and final consumption):</p> <ul style="list-style-type: none"> — against the overall energy efficiency target 	<p>Contribution to the Union's energy efficiency targets in accordance with Directive (EU) .../... [recast EED] target (share and figure in ktoe, primary and final [consumption):</p> <ul style="list-style-type: none"> — against Article 8 EED target (energy savings obligation)

	<p>Contribution to the Union's renewable energy targets in accordance with Directive (EU) 2018/2001 [amended RED] (share, MW generated):</p> <ul style="list-style-type: none"> — against the overall target for energy from renewable sources — against the indicative target for the share of energy from renewable sources in the building sector 	
	<p>Contribution to Union's 2030 climate target and 2050 climate neutrality goal in accordance with Regulation (EU) 2021/1119 (share and figure in (kgCO₂eq/(m².y))):</p> <ul style="list-style-type: none"> — against the overall decarbonisation target 	
(c) Overview of implemented and planned policies and measures	<p>Policies and measures with regard to the following elements:</p> <p>(a) the identification of cost-effective approaches to renovation for different building types and climatic zones, considering potential relevant trigger points in the lifecycle of the building;</p> <p>(b) national minimum energy performance standards pursuant to Article 9 and other policies and actions to target the worst-performing segments of the national building stock;</p> <p>(c) the promotion of deep renovation of buildings, including staged deep renovation;</p> <p>(d) empowering and protecting vulnerable customers and the alleviation of energy poverty, including policies and measures pursuant to Article 22 of Directive (EU) .../... [recast EED], and housing affordability;</p> <p>(e) the creation of one-stop-shops or similar mechanisms for the provision of technical, administrative and financial advice and assistance;</p> <p>(f) the decarbonisation of heating and cooling, including through district heating and cooling networks, and the phase out of fossil</p>	<p>Policies and measures with regard to the following elements:</p> <p>(a) the increase of climate resilience of buildings;</p> <p>(b) the promotion of the energy services market;</p> <p>(c) the increase of fire safety;</p> <p>(d) the increase of resilience against disaster risks, including risks related to intense seismic activity;</p> <p>(e) the removal of hazardous substances including asbestos; and</p> <p>(f) accessibility for persons with disabilities.</p> <p>For all policies and measures:</p> <ul style="list-style-type: none"> - administrative resources and capacities - area(s) covered: <ul style="list-style-type: none"> — worst-performing — minimum energy performance standards

<p>fuels in heating and cooling with a view to a complete phase-out by 2040 at the latest;</p> <p>(g) the promotion of renewable energy sources in buildings in line with the indicative target for the share of energy from renewable sources in the building sector set in Article 15a(1) of Directive (EU) 2018/2001 [amended RED];</p> <p>(h) the reduction of whole life-cycle greenhouse gas emissions for the construction, renovation, operation and end of life of buildings, and the uptake of carbon removals;</p> <p>(i) prevention and high-quality treatment of construction and demolition waste in line with Directive 2008/98/EC, notably as regards the waste hierarchy, and the objectives of the circular economy;</p> <p>(j) district and neighbourhood approaches, including the role of renewable energy communities and citizen energy communities;</p> <p>(k) the improvement of buildings owned by public bodies, including policies and measures pursuant to Articles 5, 6 and 7 of the [recast EED];</p> <p>(l) the promotion of smart technologies and infrastructure for sustainable mobility in buildings;</p> <p>(m) addressing market barriers and market failures;</p> <p>(n) addressing skills gaps and mismatches in human capacities, and promoting education, training, upskilling and reskilling in the construction, sector and energy efficiency and renewable energy sectors; and</p> <p>(o) awareness raising campaigns and other advisory tools.</p> <p>For all policies and measures:</p>	<ul style="list-style-type: none"> — energy poverty, social housing — public buildings — residential (single-family, multi family) — non-residential — industry — renewable energy sources — phase-out of fossil fuels in heating and cooling — whole life-cycle greenhouse gas emissions — circular economy and waste — one-stop-shops — renovation passports — smart technologies — sustainable mobility in buildings — district and neighbourhood approaches — skills, training — awareness campaigns and advisory tools
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	<ul style="list-style-type: none"> – Name of policy or measure – Short description (precise scope, objective and modalities of operation) – Quantified objective – Type of policy or measure (such as legislative; economic; fiscal; training, awareness) – Planned budget and funding sources – Entities responsible for implementing the policy – Expected impact – Status of implementation – Date of entry into force – Implementation period 	
(d) Outline of the investment needs, the budgetary sources and the administrative resources	<ul style="list-style-type: none"> – Total investment needs for 2030, 2040, 2050 (million EUR) – Public investments (million EUR) – Private investments (million EUR) – Budgetary resources – Secured budget 	Secured budget