

Do no significant harm: how to move from the principle to the practice and get funded

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# THE DNSH PRINCIPLE/1

### **Do No Significant Harm (DNSH)**

The Regulation establishing the Recovery and Resilience Facility (RRF) provides that **no measure** (i.e. no reform and no investment) included in a Member State's Recovery and Resilience Plan (RRP) should **lead to significant harm to any of the six environmental objectives** within the meaning of Article 17 of the Taxonomy Regulation (EU) 2020/852.

The 6 environmental objectives:







## THE DNSH PRINCIPLE/2

An activity is considered to do significant harm to:

- climate change mitigation if it leads to significant greenhouse gas (GHG) emissions;
- climate change adaptation if it leads to an increased adverse impact of the current climate and the expected future climate, on the activity itself or on people, nature or assets;
- the sustainable use and protection of water and marine resources if it is detrimental to the good status or the good ecological potential of bodies of water, including surface water and groundwater, or to the good environmental status of marine waters;
- 4. to the circular economy, including waste prevention and recycling, if it leads to significant inefficiencies in the use of materials or in the direct or indirect use of natural resources, or if it significantly increases the generation, incineration or disposal of waste, or if the long-term disposal of waste may cause significant and long-term environmental harm;
- pollution prevention and control if it leads to a significant increase in emissions of pollutants into air, water or land;
- 6. the protection and restoration of biodiversity and ecosystems if it is significantly detrimental to the good condition and resilience of ecosystems, or detrimental to the conservation status of habitats and species, including those of Union interest.



Brussels, 12.2.2021 C(2021) 1054 final

Commission Notice

Technical guidance on the application of "do no significant harm" under the Recovery and Resilience Facility Regulation

EUROPEAN COMMISSION C(2021) 1054

Technical guidance
on the application
of "do no significant harm"
under the
Recovery and Resilience
Facility Regulation

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The Commission adopted Technical Guidance on DNSH on 12 February 2021



## **DNSH IS PART OF THE ASSESSMENT**

The Commission assess Member States' RRPs based on assessment criteria annexed to the RRF Regulation

For each criterion, the Commission must rate the RRP from A to C

- For the assessment of DNSH, the Commission has only two rating options: A or C (there is no B!)
  - A if no measure leads to significant harm to any of the six environmental objectives
  - C if one or more measures lead to significant harm to any of the six environmental objectives

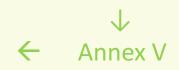
The Commission can only endorse an RRP if <u>no assessment</u> criteria is rated with a 'C'



REGULATION (EU) 2021/241
OF THE EUROPEAN
PARLIAMENT AND OF THE
COUNCIL

of 12 February 2021

establishing the Recovery and Resilience Facility





# **DNSH CHECKLIST/1**

#### ANNEX I: DNSH checklist

Part 1 – Member States should filter the six environmental objectives to identify those that
require a substantive assessment. For each measure, please indicate which of the below
environmental objectives, as defined in Article 17 ('Significant harm to environmental
objectives') of the Taxonomy Regulation, require a substantive DNSH assessment of the
measure:

	_	_	
Please indicate which of the environmental	Yes	No	Justification if 'No' has been selected
objectives below require a substantive			
DNSH assessment of the measure			
Climate change mitigation			
Climate change adaptation			
The sustainable use and protection of water			
and marine resources			
The circular economy, including waste			
prevention and recycling			
Pollution prevention and control to air,			
water or land			
The protection and restoration of			
biodiversity and ecosystems			



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# **DNSH CHECKLIST/2**

Part 2 - Member States should provide a substantive DNSH assessment for those
 environmental objectives that require it. For each measure, please answer the questions
 below, for those environmental objectives identified under Part 1 as requiring a substantive
 assessment:

Questions	No	Substantive justification
Climate change mitigation: Is the measure expected to lead to significant GHG emissions?		
Climate change adaptation: Is the measure expected to lead to an increased adverse impact of the current climate and the expected future climate, on the measure itself or on people, nature or assets?		
The sustainable use and protection of water and marine resources: Is the measure expected to be detrimental:		
(i) to the good status or the good ecological potential of bodies of water, including surface water and groundwater; or		
(ii) to the good environmental status of marine waters?		
The transition to a circular economy, including waste prevention and recycling: Is the measure expected to:		
(i) lead to a significant increase in the generation, incineration or disposal of waste, with the exception of the incineration of non-recyclable hazardous waste; or  (ii) leading to the control of th		
<ul> <li>(ii) lead to significant inefficiencies in the direct or indirect use of any natural</li> </ul>		

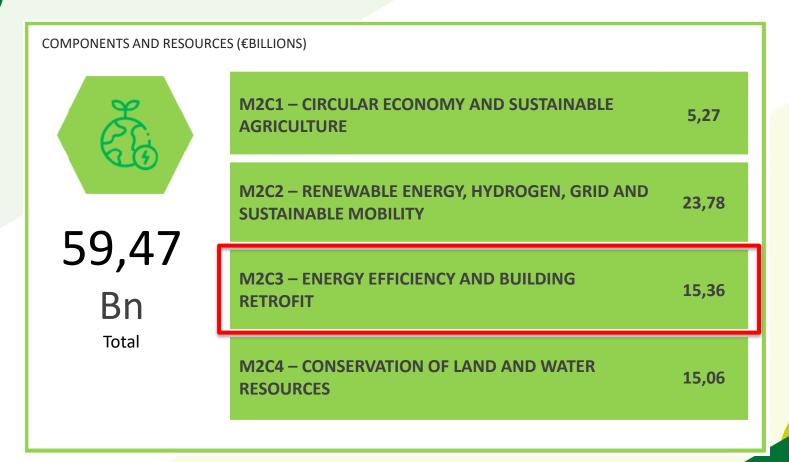
whi mea (iii) caus to t	nurce <sup>1</sup> at any stage of its life cycle ch are not minimised by adequate surce <sup>2</sup> ; or se significant and long-term harm the environment in respect to the ular economy <sup>2</sup> ?	
measure increase	n prevention and control: Is the expected to lead to a significant in the emissions of pollutants <sup>4</sup> into r or land?	
	rotection and restoration of sity and ecosystems: Is the measure to be:	
(i)	significantly detrimental to the good condition <sup>5</sup> and resilience of ecosystems; or	
(ii)	detrimental to the conservation status of habitats and species, including those of Union interest?	



HOW DOES THE DNSH PRINCIPLE APPLY TO
THE CONSTRUCTION AND RENOVATION OF
BUILDINGS - RESIDENTIAL AND NONRESIDENTIAL - FINANCED BY THE PNRR?



## IT - PNRR - MISSION 2 GREEN REVOLUTION AND ECOLOGICAL TRANSITION/1





# IT - PNRR - MISSION 2 GREEN REVOLUTION AND ECOLOGICAL TRANSITION/2

FRAMEWORK OF MEASURES AND RESOURCES (€BILLIONS)					
15,36	Areas of intervention/Measures	Total			
_	1. Energy efficiency of public buildings	1.21			
Bn	Investment 1.1 Plan for school buildings replacement and energy retrofit	0.80			
Total	Total Investment 1.2 Efficiency of judicial buildings				
	Reform 1.1 Simplification and acceleration of the procedure for the realization of energy efficiency retrofit				
	2. Energy and Seismic retrofit of public and private dwellings	13.95			
	Investment 2.1 Ecobonus and Sismabonus up to 110% for energy efficiency and building safety	13.95			
	3. District heating systems				
	Investment 3.1 Development of district heating systems	0.20			



# IT - PNRR - MISSION 2 GREEN REVOLUTION AND ECOLOGICAL TRANSITION/3

### **EXPECTED RESULTS**

195 <u>school buildings</u> (410.000 sqm) → Regime 1 (substantial contribution) 8.400 tCO<sub>2</sub>/ year reduction

48 <u>judiciary buildings (290.000 sqm</u>) → Regime 2 (exclusive to DNSH) 2.500 tCO<sub>2</sub>/ year reduction

100.000 <u>private and public dwellings</u> (36 million sqm retrofit) → Regime 1 (substantial contribution) 667.000 tCO<sub>2</sub>/ year reduction

→ TOT. 677.900 tCO<sub>2</sub>/ year reduction



Risks to forests from not using wood from sustainably managed and certified forests

# 2

ecosystems

#### **6 OBJECTIVES** ISSUES identified in the construction sector Mitigation of climate **Excessive energy consumption** and emissions of carbon derivatives change **Adaptation to climate** Reduced resistance to extreme weather events change Lack of resilience to future temperature increases in terms of indoor comfort conditions Sustainable use or Excessive water consumption due to inefficient water systems Interference of the structure with the surface water pattern protection of water and Impact of the construction site on the local water environment (pollution) marine resources Transport to landfill and/or incineration of construction and demolition waste that could **Circular economy** otherwise be efficiently recycled/reused **Excessive waste production** and inefficient waste management Presence of **harmful substances** in building materials **Prevention and reduction** Presence of contaminants in building components and any hazardous construction and demolition wastes from building renovations of pollution Presence of contaminants in the site soil **Protection and** Inappropriate building location restoration of Negative impacts on ecosystems if construction occurs in a conservation area or an area of high biodiversity value (in the case of new construction) biodiversity and

### THE DNSH PRINCIPLE IN THE CONSTRUCTION AND RENOVATION OF BUILDINGS/2



#### **GUIDING PRINCIPLES**

- a) designed to minimize **energy use and carbon emissions**, throughout the life cycle
- **b)** adaptation of buildings to climate change
- c) rational use of water resources
- d) proper selection of **materials**
- e) proper management of site waste

The solutions implemented, the materials and the components used must guarantee compliance with current Italian CAM (Minimum Environmental Criteria).



# THE DNSH PRINCIPLE IN THE CONSTRUCTION AND RENOVATION OF BUILDINGS/3 DNSH CONSTRAINTS

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	6 OBJECTIVES	DNSH CONSTRAINTS - NEW BUILDING CONSTRUCTION	DNSH CONSTRAINTS – RENOVATIONS		
	Mitigation of climate change	<ul> <li>Overall non-renewable primary energy demand 20% lower than that of NZEB requirements → class en. A4 (Regime 1)</li> <li>NZEB, Class A4 (Regime 2) - mandatory for new buildings from 1/1/2021 (private buildings) and 1/1/2019 (public buildings)</li> </ul>	<ul> <li>Major renovation of first and second level</li> <li>⇒ savings in net primary energy demand of at least 30% compared to the performance of the building before renovation</li> </ul>		
	Adaptation to climate change	<ul> <li>Climate risk assessment over the building lifecycle (10- to 30-year climate projections)</li> <li>Verify vulnerability of the building with respect to the identified risks</li> <li>Adaptation solutions that can reduce risk (integrated in design and implementation. They should not adversely affect adaptation efforts or the level of resilience to physical climate risks of other people, of nature, of the cultural heritage, of property and other economic activities. Adaptive solutions should be consistent with local, sectoral, regional or national adaptation strategies and plans) (e.g. stormwater runoff, temperature mitigation, etc.)</li> <li>Building CAM application (e.g. dual flush cisterns for 6Lmax WCs, water-saving taps, separation of wastewater from stormwater, purification/removal of wastewater from driveways and car parks, pedestrian/cycle paths/roofs/etc. into stormwater cisterns, waterless urinals, water consumption measurement)</li> <li>International standards on sanitary faucets (EN 200, 816,817,1111,1112,1113,1287,15091) for water saving (already mandatory in Italy)</li> </ul>			
	Sustainable use or protection of water and marine resources				



# THE DNSH PRINCIPLE IN THE CONSTRUCTION AND RENOVATION OF BUILDINGS/4 DNSH CONSTRAINTS

6 OBJECTIVES	DNSH CONSTRAINTS - NEW BUILDING CONSTRUCTION	DNSH CONSTRAINTS – RENOVATIONS			
Circular economy	<ul> <li>Building CAM application → 50% disassembly (in weight of building and prefabricated components)</li> <li>At least 80% (new construction) and 70% (renovation) of non-hazardous C&amp;D waste sent for recovery</li> <li>Waste management plan</li> </ul>				
Pollution preventive and reduction	<ul> <li>Building CAM application including:</li> <li>Components, products and materials containing pollutants from the Authorization List in the E (Candidate List) may not be used.</li> <li>Radon risk assessment for used materials and soil characterisation</li> <li>Construction site plan</li> <li>Soil and groundwater characterisation (as per Legislative Decree 152)</li> </ul>				
Protection and restoration of biodiversity and ecosystems	<ul> <li>New construction works must not concern:</li> <li>Cultivated and arable land with moderate to high soil fee</li> <li>Virgin land with high biodiversity and land that is the har List or the IUCN Red List;</li> <li>Forests</li> <li>Virgin wood for structures, cladding, finishes must be at prepared for reuse</li> </ul>	abitat of species (flora and fauna) on the European Red			





### Sede Legale ed operativa

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