

**APPENDIX II**

**STUDY OF CASES. TABLE OF CONCLUSIONS OF PREVENTIVE, CORRECTIVE AND COMPENSATORY MEASURES FOR CLIMATE CHANGE THAT MUST BE INCORPORATED IN THE URBAN PLANNING PLANS**

<b>TYPE OF ACTION</b>	<b>IMPACT EMISSIONS</b>	<b>INDICATIONS FOR URBAN STANDARDS</b>	<b>COMPENSATION</b>
<p>MITIGATION M1.1-SOIL TRANSFORMATION</p>	<p>Has Sealing the soil. Soil with vegetation that are transformed into vials, buildings or parking. Lost of reserves and in the capacity of removal.</p>	<p>Estimation t. CO2 / ha. stored in soil and vegetation. (According to the EC Decision of June 10, 2010) (in accordance with COMMISSION DECISION of 10 June 2010 on guidelines for the calculation of carbon stocks)  Presentation of an executive project annexed to the urbanization project with measures to prevent and offset emissions (preferably avoided emissions due to the development of</p>	<p>Obtain 100% compensation for losses of carbon reserves and removal capacity.</p>

TYPE OF ACTION	IMPACT EMISSIONS	INDICATIONS FOR URBAN STANDARDS	COMPENSATION
		alternative energies within the scope of the plan)	
MITIGATION M1.2 DEVELOPMENT WORKS	Works by earthworks, road works, sidewalk, lighting, infrastructures for water: rain, waste and gardening. Direct responsibility of the promoter.	Calculation of the carbon footprint of the urbanization project.  Include in the works project: eco-efficient building materials and methods with fewer avoided emissions (renewable energies) and, where appropriate, justification for technical non-feasibility.	Compensation of 26% (EU requirement). As a last option compensation for equivalent absorption (creation of sinks)
MITIGATION M.1.3. PHASE OF OPERATION OF THE URBAN SPACE a) Mobility	Mobility. Estimation km. of the urban nucleus. Model of urbanism: disseminated, compact.	Estimation of t. compensated annually. Elaboration of Sustainable Mobility Plan: reduction of vehicles, electromobility, at least 10% of recharging points in parking spaces; t compensation. annual until 2030.	Study compensation. Quantification by the promoter, t. compensated annually

TYPE OF ACTION	IMPACT EMISSIONS	INDICATIONS FOR URBAN STANDARDS	COMPENSATION
<p>MITIGATION M.1.3.FUNCTION PHASE OF URBAN SPACE. c) Evacuation and purification of wastewater</p>	<p>Estimation of inhabitants (INE: average 2.72 people per house, Murcia Region). Distance from the urbanization. Model of urbanism: disseminated, compact.</p>	<p>Estimation of emissions according to studies (water supply company / Climate Change Office of Catalonia). Include in as annex in project of urbanization works.</p>	<p>Study compensation. Quantification by the promoter, t. compensated annually</p>
<p>MITIGATION M.1.3. PHASE OF OPERATION OF THE URBAN SPACE. d) Collection of urban solid waste</p>	<p>Estimation of inhabitants (INE *: average 2.72 people per house, Murcia Region) Distance from the urbanization. Model of urbanism: disseminated, compact.  * INE: National Institute of Statistics</p>	<p>Estimation of emissions according to studies.  Memory of separate collection of glasses, containers, paper-cardboard and bio-waste. Composting system in residential urbanism.</p>	<p>Study compensation. Quantification by the promoter, t. compensated annually</p>

TYPE OF ACTION	IMPACT EMISSIONS	INDICATIONS FOR URBAN STANDARDS	COMPENSATION
<p>MITIGATION M.1.3. PHASE OF OPERATION OF THE URBAN SPACE. e) electricity consumption of the urbanization</p>	<p>Distance estimation of the urbanization. Model of urbanism: disseminated, compact.</p>	<p>emission estimation according to studies. Energy self-sufficiency plan: self-generation and self-consumption; renewable alternative energies.</p>	<p>Study compensation. Quantification by the promoter, t. compensated annually</p>
<p>MITIGATION M.1.4 BUILDINGS</p>	<p>Building volume, consumption of direct energy by heating and indirect consumption of energy (power plants). Energy efficiency certificate.</p>	<p>Calculation of the carbon footprint in the construction project. Compensation project through design and sustainable materials, and methods with low carbon emissions. Bioclimatic adaptation. Renewable energies and / or compensation creation of sinks.</p>	<p>Compensation: almost no fossil energy consumption; reduced energy consumption; Renewable sources in situ or in the environment. According to Dir2013 / 31 / EU: almost zero</p>

TYPE OF ACTION	IMPACT EMISSIONS	INDICATIONS FOR URBAN STANDARDS	COMPENSATION
			energy consumption buildings.
<p>ADAPTATION A.1.1 WATER Harvesting of rainwater by sealing</p>	<p>Possibility of flood</p>	<p>Areas of forced infiltration or equivalent, of sidewalks, roads and other sealed spaces for recovery and use of rainwater. Stormwater network separated from the sewer. Deposits and elements necessary for its use (irrigation of gardens)</p>	
<p>ADAPTATION A1.2 WATER Buildings</p>		<p>Calculation of energy consumption by water supply. Construction projects for collection design in rainwater tanks and gray water reuse. Promotion of savings and efficiency of "local water"</p>	

