

Project	Land Clearing and Construction Material Recovery, Pesaro, Italy
Context	<p>The City of Pesaro planned to approach the demolition of an old building with the selective demolition.</p> <p>With the intent to prevent the use of new land for new public buildings, the Council decided to demolish the old and useless military warehouse because due to the condition of the building built in 1950 it was very expensive to refurbish it and it is also too small for the new school building planned in the same area.</p> <p>The demolition also helps to reach a higher level of CO2 emissions avoid because the new school, that replace the warehouse, is a nearly Zero Energy Building.</p>
Retrofitting specific information	<p>The military warehouse was built in 1950 with bricks, roof tiles, wooden doors and window with a lot of dispersions and without any insulation.</p> <p>There was also hazardous material such as asbestos that required a proper and professional disposal under the control of the Health Authority.</p>
Procurement procedure	<p>Direct award using the lowest price criterion asking previously at least 3 bids.</p> <p>The bidders were asked to take all the disposal to the recycling center rather than to the landfill and provide the Public Works Office with all the documents about it such as:</p> <ul style="list-style-type: none"> - Quantity of disposal transported - Quantity of disposal recycled
Metrics and results	<p>241 kg Asbestos - Special treatment for hazardous waste</p> <p>2,46 t Excavation earth - resued in the same costruction site after checking the quality with lab analysis</p> <p>2781,1 t concrete CER 170904 Recovery 100%</p> <p>Contribution to the development of sustainable demolition approach.</p> <p>The costs to the recycled centre are 8€/mc and the costs to the landfill are 80€/mc</p>
Total budget	€ 27.280 demolition cost all included

Project	Sustainable Recovery Waste Management, Pesaro, Italy
Context	The City of Pesaro planned to transform the project design of a new school building with standard technical characteristics into a Sustainable Building (nZEB building).
Retrofitting specific information	Construction Material Recovery
Procurement procedure	<p>Open procedure</p> <p>Based on the Italian Law “Minimum Environmental Criteria”, 11 tender specifications were made and published in the tender notice.</p> <p>One of the sustainable criteria is related on the waste management during the construction works phase.</p> <p>The works has been started on 9 September 2018 and they will finish on the end of June 2019.</p> <p>The aim of the project is to obtain an energy efficient building with a sustainable approach to increase awareness on all actions and factors that could improve the circular economy.</p>
Metrics and results	<p>Mixed packing 560 kg CER 150106 Recovery 30% (10% 150102, 20% 150101)</p> <p>Landfill 70% 191212</p> <p>Concrete 1860 kg CER 170101 Recovery 100% CER 170101</p> <p>Contributed to the development of waste management also during the construction works.</p> <p>Provision of training of technicians and workers and improving the awareness for users and employees.</p>
Total budget	€ 3 million euros (€ 2,600,000 euros for works and € 400,000 euros for fees and project assistance)