

**URBAN RE-GENERATION PROJECT  
GOOD COMPANY PRACTICES**



**FUCINE UMBRE S.R.L.**

<b>COMPANY CERTIFICATIONS</b>		
<b>SAFETY</b>	<b>QUALITY</b>	<b>ENVIRONMENTAL MANAGEMENT</b>
BS OHSAS 18001:2007	UNI EN ISO 9100:2016 UNI EN ISO 9001:2015 EN 4179/NAS 410 for staff working on non-destructive tests.	ISO 14001:2015

<b>ENERGY SAVING INITIATIVES</b>	
Energy Management System ISO 50001	Not present
Energy consumption reduction initiatives:	The following energy consumption reduction initiatives have been implemented: - heat insulation panel installation on the new buildings; - production process optimisation via heat regulation systems which avoid heat wastage; - inverter installation on large engines to improve electricity consumption.
Renewable Energy Sources	The firm has installed photovoltaic panels on all useful surfaces covering the Fucine Umbre plants.
Water consumption reduction initiatives	To reduce water consumption a process water reuse system has been adopted in the galvanic and chemical cleaning departments via a water treatment plant.

<b>ENVIRONMENTAL SUSTAINABILITY AND GREENHOUSE GAS REDUCTION INITIATIVES</b>	
<b>Global sustainable development goals</b>	
Global goal formalisation	The values and goals underlying the company's sustainability commitment are formalised in its Management Review. The firm has also drawn up an internal Environmental Analysis document which sets out the site-environment relationship, supplying the elements needed for the identification of significant environmental elements and orienting the firm's goal definition and improvement milestone policies. The environmental improvement goals the company sets itself are identified annually in a specific document together with the relevant individual resources and responsibilities.
Environmental policy document	The firm's environmental policy commitments are formalised in its internal Integrated Policy document.

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	<p>The Integrated Policy - an expression of Management's intentions - is implemented by the Quality department which is tasked with implementation, monitoring and improvement of the whole Integrated Management System (Quality, Environment, Safety) together, firstly, with the Environment and Safety department which is subordinate to it as well as the other managerial structures where applicable.</p>
Changes determined by sustainability strategies:	<ul style="list-style-type: none"> <li>- in the business model: The firm has adopted an environmental management system in accordance with ISO standards which measures and monitors the firm's environmental impact and draws up policies and strategies to reduce this (<i>implemented</i>).</li> <li>- in company processes: The firm's process water treatment plant enables this to be reused and thus reduce liquid waste production and water consumption. The sulphuric anodic oxidation process is free of hexavalent chromium and chrome-free paints are used (<i>implemented</i>).</li> <li>- adoption of environmentally friendly vehicles for the corporate fleet (<i>implementation underway</i>);</li> <li>- distance working systems (teleconferencing, homeworking, etc.) (<i>implemented</i>);</li> <li>- promotion of car pooling, use of bicycles and public transport, etc. (<i>planned</i>);</li> <li>- changes to packaging from an environmental perspective (<i>implemented</i>).</li> </ul>
<b>Purchases and supplies</b>	
Primary raw materials used and provenance	<p>The principal raw materials used in the production cycle are:</p> <ul style="list-style-type: none"> <li>- steel;</li> <li>- aluminium alloys;</li> <li>- titanium alloys.</li> </ul> <p>The raw materials are sourced in: France, Britain, the United States and Germany.</p>
Environmental criteria in supplier selection	<p>The following are taken into account:</p> <ul style="list-style-type: none"> <li>- supplier social, environmental and safety certifications;</li> <li>- supplier proximity (short circuits) where possible.</li> </ul>
Promotion of action to get suppliers involved on environmental themes	<p>In suitability tests and audits at supplier sites compliance with environmental and safety requisites are also assessed.</p>
Adoption of raw material reduction initiatives	<p>In defining working cycles account is taken of raw material quantities to minimise needs. The characteristics of the moulding process also include reducing raw material consumption relative to other process technologies.</p>

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Sustainable purchase policy for travel	Where possible the firm makes use of videoconferencing. In transfers off site a single company vehicle is used by all staff.
Sustainable purchase policy for consumables	Once again with eco-sustainability in mind, paperless processes have been implemented and document dematerialisation is underway.
Sustainable purchase policy for food and drink	A drinking water dispenser has been installed at the company canteen with a view to reducing plastic bottle consumption.
<b>Production</b>	
Green services/products	N/A
Product innovations designed to replace dangerous chemical substances	In accordance with legal requirements on the subject of chemical substances, the firm has replaced hexavalent chromium based products and prioritised the use of chrome-free products in painting.
Adoption of production process environmental certification trajectories	The firm has obtained ISO 14001 environmental certification for its environmental management system.
Presence of a document communicating atmospheric emissions.	Yearly atmospheric emission communications to ARPA Umbria.
Participation in environmental innovation research projects.	Via: - company funds.
<b>Waste Management</b>	
Recycling and appropriate waste management improvement initiatives.	In 2019 the firm sent 23% of its waste to landfill sites while the remaining 77% was recycled at other production sites. Specific containers have been placed in all departmental offices and shared spaces to incentivise recycling. Additionally, temporary waste storage has been appropriately managed with spaces being identified for waste on a CER code basis and ongoing training for staff on appropriate waste management.
Waste processing and waste reduction initiatives	Various internal processes have been implemented to send by-products to other production cycles (iron and other shavings and strands, etc.).
Environmental impact improvement targets	For environmental impact monitoring purposes Fucine Umbre S.r.l. draws up a yearly internal document to identify and monitor its environmental impact goals together with workplace health and safety considerations, in order to work for ongoing improvement.
<b>Innovation and research</b>	
Investment in innovation and research	A percentage of profits are used for research and development. Such expenses frequently centre in particular around activities such as: - chemical processes;

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	<ul style="list-style-type: none"> <li>- painting;</li> <li>- forging.</li> </ul> <p>The management of the action/investment needed to pursue the firm's environmental objectives will be the task of various company departments such as: Admin, Engineering, Maintenance, Quality (Safety and Environment).</p>
Direct atmospheric emissions reduction initiatives	Where possible emission abatement systems are put in place such as scrubbers, active carbon filters and a soon to be installed fume aspiration system.
<b>Staff training</b>	
Staff awareness raising and training designed to reduce environmental impact	<p>Staff waste management courses have been implemented. All staff have attended these for an overall total of 30 hours.</p> <p>Additionally two employees have been specifically trained following on from audits and monitoring with a view to assessing the effective conformity and efficacy of the work done in the environmental field.</p>
<b>Client relations</b>	
Marketing policies designed to highlight product sustainability.	N/A as the firm has not performed product sustainability studies.
<b>Relations with local government and the community</b>	
Working together with the local council on community sustainability projects and initiatives.	N/A
Participation in competitive tenders requiring environmental criteria	N/A
Access to public incentives for green process/product development	The firm has used tax credits to incentivise research and development (such as in chrome-free products).
Membership of business associations and networks	Membership of Confindustria Umbria, AIAD - Federazione aziende italiane per l'aerospazio, la difesa e la sicurezza -, Umbria Aerospace Cluster, Cluster Nazionale Fabbrica Intelligente.
Direct joint working with business networks and associations	Ongoing joint working with Confindustria Umbria on the Terni Urban Re-Generation project.
Initiatives and activities in schools	The firm takes on high school students for school work experience as well as final year students at the Perugia University engineering faculty and internship students with the Higher Technical Institutes (ITS).