49th ASECAP DAYS Decarbonizing Road Infrastructure : Challenges, Perspectives and Actions in Tough Economy





Hotel Marriott Grand Place, Brussels 24 – 25 November 2022



CO₂ Neutralization: the green repopulation

eng. Agostino Viglione agostino.viglione@autostrade.it Autostrade per l'Italia S.p.A.

autostrade per l'italia

Foreword



- Autostrade per l'Italia's Strategic Transformation Plan, launched in January 2020, is based on seven fundamental pillars: all-round safety, operational excellence, digitalization, reaffirmation of core values, centrality of people and customers throughout the customer journey, mobility and sustainable development.
- The dissemination of the Plan is entrusted to "Next a 360°", a programme that in 8 chapters describes the transformation projects
- These include Next To ESG, which is constant and transversal to all projects and transformation initiatives, in line with the Group's desire to place sustainability at the heart of the path of change.



Becoming a best practice in line with the Sustainable Development Goals (SDGs) of the 2030 Agenda by involving all sectors in a process that includes:

- integrated management of the infrastructure by strengthening its resilience and security;
- reduction of the Group's environmental impact with the Net Zero objective by 2050;
- strengthening the sustainability governance system and building a staff that values diversity and talent;
- a new relationship with the customer to make the travel experience safer, more interconnected and enjoyable

Key figures and highlights

Anno di costituzione del sistema di Governance della Sostenibilità

Consumi energia elettrica Autostrade per l'Italia coperti da fonti rinnovabili ⇒ -41% Emissioni tCO₂e Scope 1 e 2 vs 2020

59% Fornitori contrattualizzati e in albo valutati ESG, obiettivo 100% al 2022 Rifiuti destinati a processi di recupero/ riciclo/riutilizzo



ASPI's Commitment to sustainable development



Guidelines defined for each material topic

	Commitments	Material topics ¹	SDGs
	Decarbonize the ASPI Group by zeroing its carbon footprint through an SBTi ² approach	Climate change	13 status 13 status 13 status 12 status 12 status 12 status 13 status 13 status 13 status 13 status 13 status 13 status 13 status 13 status 13 status 14 status 14 status 15 status 16 status
E	Reducing the environmental impacts resulting from infrastructure construction and management	Protection of natural resources (circularity/ biodiversity)	алгалаа 15 Иблае Ф
	Leading the design development and management of a	Occupational health and safety	9 MEASURE INVENTIONE 3 GOOD HEALTH AND INCLUSIONE
	safe, sustainable and resilient network	Infrastructure and traffic safety	8 EXEMPTION 9 EXEMPTION 1 EXEMPTION 1 EXEMPTION
c 8	Strengthening HR strategies by focusing on diversity,	Diversity & Inclusion	
5 6-8	justice, inclusion and development	Focus and development of resources	
	Contributing to the social well-being of the	Support for local communities	
	communities in which the Group operates	Customer satisfaction	▲⊞≝
	Guaranteeing full integration of the ESG principles in the company business model	Business Ethics & Integrity	16 PARZ JUSTEC ADDITIONS ADDITIONS
G		Privacy and Cybersecurity	
		Supply chain	17 PARTICISSING 17 FOR THE GOALS
		Innovation and digitization	

1. Material topics defined in the 2021 materiality analysis. The topics are being updated. 2.Net Zero commitment consistent with the level of decarbonization required to maintain global temperature rise to 1.5 ° C compared to pre-industrial temperatures (as written in the '' Intergovernmental Panel on Climate Change's Special Report on Global Warming of 1.5 ° C)

ASPI Group's Approach to Sustainability





Green Repopulation Project – Executive Summary



CONTEXT: ASPI and the NET ZERO strategy	 In line with the Net Zero ambition and the objectives of limiting global warming to 1.5° above pre-industrial levels by 2050, ASPI has launched decarbonisation process. CO2 emission reduction targets have therefore been defined and certified by SBTi (Science Based Target initiative)* in 2022 and also be used to achieve the rating issued by the "Carbon Disclosure Project" (CDP)**. The initiatives to achieve the targets are classified according to three different levels of priority: initiatives to reduce emissions (e.g. energy efficiency, self-production, green energy purchase); emission neutralization initiatives (e.g. green repopulation project); remaining compensatory measures (e.g. purchase of carbon credits).
GREEN REPOPULATION PROJECT: Business case development and project continuation	 > In this context, the Green Repopulation Project is one of the initiatives identified to neutralize emissions. The initiative provides for the planting of 60 hectares spread over 41 sites, consisting of unused spaces in service areas, areas around junctions, toll stations and motorway carriageways. The project covers 7 regions (15 provinces and 37 municipalities), with a total investment of approximately € 3.5 million. > At the end of 2021, a business case was carried out at the Prenestina Est service area, which allowed the technical and economic definition of the project requirements. > Overall, the project will allow an average absorption of at least 360 tonnes of CO2/year (***). > Further benefits of the project are a positive impact on air quality and an improvement of the landscape and the territory.

^(*) SBTi is a joint initiative between the Carbon Disclosure Project (CDP), the United Nations Global Compact, the World Resources Institute (WRI) and WWF, with the aim of encouraging companies to set CO2 reduction targets consistent with the goal of limiting global warming to 1.5/2 degrees above pre-industrial levels.

^(**) CDP (formerly the Carbon Disclosure Project) is the global disclosure system for managing the environmental impacts of the private sector, the most important and widespread reporting system providing environmental information and data to investors and the market.

^(***) The calculation of the CO2 absorbed is linked to the growth time of plants and considers the following assumptions : during the growth phase, between 2023 (year of completion of the project) and 2030, an absorption of 900 tonnes of CO2 per year, after 2030, when the plants are mature, an absorption of approximately 3,327 tonnes of CO2 per year

Green Repopulation Project – Business Case





for the implementation of reforestation measures

Business Case 3) Development

the overall investment plan.

value of 57 k€/ hectare (net value) was determined

for interventions including design, construction, work supervision and maintenance for the first

service years. This value was used to determine

Green Repopulation Project – Implementation Plan



Project Implementation

	2022			2023				
MACRO PHASES	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Business Case								
Design								
Award of works (Agreement)								
Works and implementation $_{(1)}$								

CO₂ Absorption Forecast

Site	1 y	12 y	50 y
Prenestina Est	7	84	350
Total tons	360	4320	18000



(1) In general, planting activities do not require specific authorisation procedures or constraints to be met. Specifically, the forestation plan carried out revealed 8 out of 41 sites require a landscape authorisation.



THANK YOU FOR YOUR ATTENTION

eng. Elpidio Marotta: <u>elpidio.marotta@autostrade.it</u> eng. Agostino Viglione: <u>agostino.viglione@autostrade.it</u>

autostrade per l'itali