Supply Chain Energy – Summary of Projects

Introduction

The energy transition requires innovation, skills and collaboration. Supply Chain Energy is a programme designed to support companies in Eni's Supply Chain as they navigate the energy transition, fostering dialogue and growth focused on innovation, competitiveness and integration across the Supply Chain. The **summaries provide an overview of the projects developed by the participating companies**, presenting ideas and opportunities designed to address the challenges of industrial transformation and contribute to **sustainable value creation across the entire value chain**.

1. Supply Chain Smart Energy Hub

Title
Smart Energy Hub: the replicable energy model

Nolitalia, Impes Services, Comosud and GDM propose developing an **integrated energy hub** combining photovoltaics, energy storage systems, electric mobility and artificial intelligence. The project demonstrates how Supply Chain collaboration can reduce emissions and consumption, optimise energy self-consumption and create a replicable model to accelerate the energy transition at industrial sites.

2. Smart Industrial Hub 4.0

Title
Smart Industrial Hub 4.0: the Supply Chain becomes a data-driven ecosystem

Gravili, Garramone and Lux Impianti propose an integrated digital Supply Chain model based on a **Digital Twin**, i.e. a virtual representation of an object, using IoT sensors, PLC/SCADA systems, data analytics and artificial intelligence.

The model integrates data from production, maintenance, logistics and the environment, creating a dynamic, up-to-date representation of the entire Supply Chain. This enables it to anticipate anomalies and operational downtime, optimise energy efficiency and ensure component traceability, transforming a traditionally fragmented Supply Chain into an integrated, interconnected digital ecosystem.

3. ÒGMAi

Title
ÒGMAi: machines do the heavy work, people do the thinking

Tecnomec Engineering, Superconsorzio Trasporti Lucani, Liliana and S.E.A. Servizi Ecologici Ambientali propose ÒGMAi, **an operational Supply Chain copilot powered by on-premise artificial intelligence**. The project reads piping isometric drawings and generates a preliminary bill of materials ready for technical review. This reduces time,

errors and rework, while keeping data and know-how within the company. It frees up time for people to focus on technical checks and decision-making.

4. Twin Chain Efficiency

Title
Twin Chain Efficiency: measurable Supply Chain efficiency

Termisol Termica, TPS Taranto and Meridionale Servizi propose an **integrated model to improve the energy efficiency of industrial plants**. Advanced diagnostics, work site digitalisation, flow traceability and monitoring of ESG indicators make it possible to reduce energy losses, improve operational continuity and turn efficiency into a measurable outcome shared across the Supply Chain.

5. CORE Protocol

Title
With the CORE Protocol, maintenance becomes predictive

Consorzio Stabile, IBA Centro, SM Impianti, VED and GIS International propose a **digital ecosystem** integrating IoT sensors, predictive maintenance, asset integrity and HSE management. Through continuous monitoring of industrial assets, the project supports early intervention, improves safety and efficiency, and strengthens the operational resilience of production sites.

6. Towards Operational Resilience

Title
Operational resilience for Supply Chain continuity

Alfer, SAIT and Setras address digital resilience **through a platform based on cloud, cybersecurity, artificial intelligence and training**. The project aims to reduce operational downtime, protect business processes and develop skills across the organisation, strengthening companies' ability to respond to risks and maintain business continuity.

7. AEGIS ONE - Edge Intelligence

Title
AEGIS ONE: intelligence that makes hydrogen safer

Carraro, ITEC, Brintek, Berengo, Metal Service and Tra.co.gas are developing AEGIS ONE, an intelligent solution for **monitoring hydrogen plants**. By integrating advanced sensor technology, predictive maintenance and cybersecurity, the project makes it possible to detect anomalies and minor leaks before they develop into critical issues, contributing to safety, operational continuity and the development of new energy Supply Chains.

8. LAB9 – Mobile Analysis Laboratory

Title
LAB9: bringing laboratory analysis into the field

Nuova Saimar, Frigo System, Proeco, SAR Trasporti, Elsac Engineering and EM Service propose the development of a **self-contained mobile laboratory for industrial activities and environmental remediation**. On-site analysis, off-grid power supply and real-time data sharing help reduce waiting times, emissions and operational risks, while improving efficiency and safety at work sites.

9. Safety Hub Alliance

Title
SafetyHub Alliance: safety as competitive value

GMA, SEMEC and Nuova SMI propose **a digital platform that makes safety more participatory, measurable and widespread**. Through training, gamification and the structured collection of reports, the project promotes a preventive safety culture, improves risk management and delivers tangible benefits in terms of ESG performance and people engagement.

10. Your talent, our strength

Title
Your talent, our strength: developing corporate skills

AUTOMATION SERVICE, GRADITO OLEODINAMICA and R.C.N. ITALIA envisage the development of an artificial intelligence-based digital platform to **monitor and develop corporate skills** through personalised training programmes, supporting upskilling, reskilling and data-driven management decision-making.

11. Safety Maps

Title
Safety Maps: safety becomes digital and predictive

M.D., COEMI and CO.RE.M. envisage the development of a digital platform that integrates near-miss reports, training, document management and smart devices into a single ecosystem. The aim is to **turn information gathered in the field into shared knowledge**, promoting prevention, faster decision-making and increasingly predictive safety management.

12. Human skills, intelligent value

Title
Giano: guardian of the past and guide to the future – Human skills, intelligent value

Chemical Express, IMESA and STEA propose a platform integrating artificial intelligence, knowledge management and skills development. The project aims to preserve company know-how, facilitate knowledge transfer and support training, safety and professional development, strengthening companies' competitiveness in the **twin transition**.

13. Management and traceability of workwear

Title
Sicily4ENI: an integrated system for the management, monitoring and traceability of workwear

Cosmisud, Ecosys, EKSO, Firma Impianti, Micor and Rendelin are developing a **digital system to monitor the entire life cycle of workwear.** Using RFID and QR code technologies, the project improves safety, regulatory compliance, cost control and ESG reporting, promoting more sustainable and transparent management of company workwear.

14. HOOKHUB

Title
HOOKHUB | EnerSy4Core

CIANFROCCA TRASPORTI, COSMI and SICOI have conceived a **digital platform** that brings young talent and companies in the Oil & Gas sector closer together through guidance, interactive content and AI-powered recruitment tools.

15. ECO-DRIVE TWIN CONNECT

Title
ECO-DRIVE TWIN CONNECT: innovation and technology in road transport to reduce emissions into the atmosphere

AmSpec, CIT, C.S. Impianti, Everllence and Sea Marconi combine advanced diagnostics, **innovative additives and digital platforms to optimise road transport**. The project helps reduce energy consumption and emissions, extend vehicle service life and turn operational data into tools for sustainability and competitiveness in the transport sector.

16. Gender equality: where do we stand?

Title
Gender equality: where do we stand? An equity and inclusion dashboard

Casarin, Tecnowatt and Temar envisage developing a **dashboard to monitor key equity and inclusion indicators**. The integration of HR data makes it possible to identify gaps,

support more informed decision-making and promote a corporate culture focused on transparency, recognising talent and the sustainable growth of organisations.

17. SafeTwin & Energy

Title
SafeTwin & Energy: a Supply Chain project, not just a single technology

Ghilardi Autotrasporti, Gruppo IULA, HIMA Italia, TGI Italia and TRR propose developing a **Risk & Competence Digital Twin** that connects plants, logistics, safety, energy consumption and skills. Data integration makes it possible to simulate scenarios, prevent risks, optimise resources and promote continuous learning, strengthening resilience and sustainability across the entire value chain.