

HyPowerGT promotional video

D6.3 – Public



HyPowerGT

*HyPowerGT – Demonstrating a hydrogen-powered gas-turbine engine
fuelled with up to 100% H₂*

Version 1 – Date 31/03/2025

Abstract

This Deliverable describes the promotional video of the HyPowerGT project, by focusing on the idea behind this activity and its content.



The HyPowerGT project is supported by the Clean Hydrogen Partnership and its members (GA 101136656) and the Swiss Federal Department of Economic Affairs, Education and Research, State Secretariat for Education, Research and Innovation (SERI).

Keywords HyPowerGT, communication, dissemination, video

Deliverable ID D6.3

Dissemination level PUB

Deliverable Type DEC

Submitted date

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REVIEWED BY	DATE
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ENDORSED BY (only if public)	DATE
Executive Board	Date

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Executive Summary

The current deliverable (D6.3) is entitled “HyPowerGT promotional video”. It is a public document produced within Task 6.1 “Dissemination and communication” (WP6) of the HyPowerGT project.

The main objective of WP6 is to conduct targeted, effective and high impact dissemination and communication activities, and the promotional video of HyPowerGT serves the purpose of communicating the ambition and expected objectives of this consortium.

ETN, as the global association representing the entire turbomachinery supply chain (manufactures, users, energy utilities, academia, suppliers, and service providers), with an established expertise in EU research and legislation policies, will lead the communication and dissemination activities to guarantee a wide, robust, market and policy-oriented spread of the project results. To achieve the best results all the partners of the consortium will support the communication and dissemination activities and be responsible to widen further the project’s outreach.

This promotional video, to be released at of M16, will be an integral part of the communications efforts throughout the project. The video will be short, concise and informative. Whilst this format makes it a versatile tool for different (social media) platforms, the video will be based on a storytelling approach highlighting the key messages to be communicated. Interviews to project partners, videos recorded during the consortium meetings and the visit to SNAM facilities in February 2025, as well as video materials shared by Baker Hughes will be featured in this promotional video.

1. Description of the HyPowerGT video

1.1. Introduction

The HyPowerGT promotional video will last around three minutes and will focus on project concept and objectives, its alignment with the EU energy transition policies, and the technical challenges in reducing NO_x emissions in hydrogen-fired gas turbines. The video emphasises the contribution that the HyPowerGT make in the decarbonisation pathway in the European region.

A storytelling approach was used throughout the video. The video has been shot in Milan during the Consortium Meeting and the visit to SNAM facilities in February 2025. Interviews to project partners (SINTEF, Baker Hughes, SNAM, and ETN) were also carried out, whilst further video material shared by Baker Hughes was included in the final product.

1.2. Script of the video

#	Visual Elements	Speaker
1	Introduction Open with the logo of HyPowerGT and the full name (demonstration of combustor technology enhancement of a 16 MWe industrial gas-turbine, fuelled with natural gas admixed with hydrogen up to 100%, dry low NO_x emissions (DLN), without catalysts, diluents and rated engine performances) + Funding disclaimer: - Clean Hydrogen Partnership - EU flag (co-financing sentence below) - Swiss flag ("Project funded by" + 4 languages) The HyPowerGT project is supported by the Clean Hydrogen Partnership and its members (GA 101136656) and the Swiss Federal Department of Economic Affairs, Education and Research, State Secretariat for Education, Research, and Innovation (SERI)	Visual Elements Only
2	Free-copyright images and shootings to be included by the video producer.	External voice

3	Free-copyright images and shootings to be included by the video producer.	External voice
4	Free-copyright images and shootings to be included by the video producer.	External voice
5	In the panorama of energy transition, gas turbines will continue to play a pivotal role. It is crucial that these assets meet the strictest policy and regulatory requirements in the long-term. Therefore, novel technological solutions shall be developed, with the aim of reducing environmental impacts.	Thomas
6	To achieve this, industrial and academic stakeholders built a Consortium to make a difference in the global landscape and hence contribute to a European climate neutral economy by 2050. The ambition of the HyPowerGT project is to demonstrate a hydrogen-powered Dry Low Emissions (DLE) gas-turbine engine fuelled with up to 100% hydrogen, a fundamental mean for decarbonised power generation and industry applications.	Eleni
7	To realise this ambition, the HyPowerGT consortium aims at introducing a novel technology, which can meet the strictest EU specifications for fuel flexibility, NO _x regulations, and safety.	Nicolò
8	But how does the Dry-Low Emission Combustion technology work?	Nicolò
9	DLE is a technology applying the principle of lean premixed combustion to reduce NO _x emissions while circumventing the use of water or steam injection. Since the turbulent flame velocity is affected by the hydrogen content in the fuel, the DLE H ₂ combustor provides an enhanced gas injection and premixing technology, able to operate with a positive margin against 'flashback conditions and ensuring maximum premixing to keep NO _x emissions low.	Valentina
10	The energy transition can be accelerated by offering a technology retrofittable to existing gas turbines, minimising costs for the industrial end-users.	Matteo
11	Nine partners from Europe will be working together to provide clean and innovative solutions for	Matteo

	dispatchable energy, leveraging the availability of the 100% H2 ready NovalT16 gas turbine.	
12	Conclusion Copyrights of project partners (Baker Hughes, SINTEF, and SNAM) Close with the logo of HyPowerGT and the full name (DEMONSTRATING A HYDROGEN-POWERED GAS-TURBINE ENGINE FUELLED WITH UP TO 100% H2 – (HYPOWERGT) + Funding disclaimer: - Clean Hydrogen Partnership - EU flag (co-financing sentence below) - Swiss flag (“Project funded by” + 4 languages) The HyPowerGT project is supported by the Clean Hydrogen Partnership and its members (GA 101136656) and the Swiss Federal Department of Economic Affairs, Education and Research, State Secretariat for Education, Research, and Innovation (SERI)	Visual Elements Only



Figure 1: Shootings of the HyPowerGT Consortium Meeting in Milan (February 2025)



Figure 2: In-Kind video contributions of Baker Hughes



Figure 3: Visit to SNAM facilities during the HyPowerGT Consortium Meeting in February 2025

2. Conclusions

The short and informative promotional video of the HyPowerGT project will be fully integrated into the communication and dissemination strategy defined by the consortium. The video will appeal to both technical and general audiences, by conveying key and simple messages. It is suitable for a wide range of uses and occasions, from social media to conferences and international exhibitions. The video will also be shared through the project social media

channel and, to maximise impact, all the partners will receive the file and be encouraged to leverage it. The video will be available on the YouTube channel of HyPowerGT.



Co-funded by
the European Union

Project funded by

Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra
Swiss Confederation

Federal Department of Economic Affairs,
Education and Research EALB
State Secretariat for Education,
Research and Innovation SERI

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