



CAHIER D'ACTEUR

Concertation publique suisse
du Futur Collisionneur Circulaire

N°01 – 9-2026

VDL ETG Switzerland is part of VDL ETG (Enabling Technologies Group), a leading supplier of high-tech systems, modules and precision-engineered components for demanding applications in semiconductor, medical, analytical, science and industry. The company combines advanced engineering, manufacturing and system integration capabilities to support customers in developing innovative technologies. VDL ETG Switzerland is committed to strengthening technological excellence, innovation, and sustainable high-value employment in Switzerland and Europe.

Adresse :

VDL ETG Switzerland AG
Hauptstrasse 1a
Postfach 128
CH-9477 Trübbach
Switzerland

Numéro : +41 81 784 64 00

Site Internet : <https://www.vdletg.com>

Le point de vue de VDL ETG Switzerland AG

VDL ETG Switzerland supports the decision to launch the Future Circular Collider (FCC) because it is a strategic investment in scientific excellence, industrial innovation and long-term economic growth.

Building on the success of CERN, the FCC will strengthen Europe's global leadership in fundamental research while driving technological advances in precision engineering, vacuum technology, cryogenics, automation and complex system integration.

For high-tech companies such as VDL ETG Switzerland, the FCC creates opportunities to develop new capabilities, collaborate with leading research institutes and contribute to engineering challenges that push the boundaries of technology. The resulting innovations will benefit not only particle physics, but also sectors such as healthcare, energy, semiconductors and advanced manufacturing.

The project will further strengthen the Swiss innovation ecosystem, attract world-class talent and support highly skilled employment for decades. VDL ETG Switzerland therefore sees the FCC as an investment in Europe's future competitiveness, innovation capacity and technological leadership, with benefits extending far beyond the scientific community.



VDL ETG Switzerland Position on the Future Circular Collider (FCC)

VDL ETG Switzerland strongly supports the decision to launch the Future Circular Collider (FCC). We believe the FCC represents a unique opportunity to strengthen Switzerland's position as a global centre for scientific excellence, technological innovation and high-value industrial activity.

The FCC is much more than a next-generation particle physics facility. It is a long-term innovation programme that will drive the development of critical technologies required by both scientific research and advanced industry. The project will require breakthroughs in superconducting magnets, cryogenic systems, advanced vacuum technologies, precision mechanics, motion control, contamination-controlled manufacturing, high-performance electronics and large-scale system integration. These are technologies with applications far beyond particle physics, including semiconductor manufacturing, medical technology, energy systems, industrial automation and advanced instrumentation.

Switzerland has developed a unique innovation ecosystem around CERN, where research institutes, universities and industrial companies collaborate on some of the world's most demanding engineering challenges. The FCC offers an opportunity to preserve and further strengthen this ecosystem for the coming decades. By attracting international talent, investment and partnerships, the project will reinforce Switzerland's reputation as a location where scientific ambition and industrial excellence meet.

Large research infrastructures have repeatedly demonstrated their ability to generate industrial innovation. The technologies developed for particle accelerators often find their way into commercial applications. Examples include advances in superconductivity, cryogenic engineering, vacuum technology, precision manufacturing and digital control systems. The FCC is expected to continue this tradition by creating new technical challenges that will stimulate research, development and industrial capability throughout Europe.

For VDL ETG Switzerland, the FCC closely aligns with our expertise in high-tech system development and manufacturing. Our capabilities in contamination control, precision mechatronics, motion control, magnetics, vacuum control, thermal management, large frames and chambers, ultra-high precision manufacturing, advanced welding technologies and cryogenic-compatible systems directly correspond to technology areas that are essential for future accelerator facilities. The FCC will require highly reliable systems operating under extreme conditions, where precision, stability and equipment availability are critical success factors. FCC development programmes specifically identify superconducting magnet technology, cryogenics, vacuum systems and precision engineering as key enabling technologies.

The project will also provide opportunities for Swiss and European suppliers to develop new competencies and manufacturing techniques. This includes design-for-manufacturing approaches, additive manufacturing, precision joining technologies, large-scale mechanical structures and highly integrated mechatronic systems. Such



developments contribute not only to the scientific objectives of FCC but also to the long-term competitiveness of European industry.

Beyond technology and economics, FCC represents an investment in people. The project will create demand for highly skilled engineers, scientists, technicians and manufacturing specialists. It will inspire future generations to pursue careers in science and technology while supporting knowledge transfer between academia and industry. The resulting skills and expertise will remain valuable long after construction is completed.

VDL ETG Switzerland therefore considers the FCC a strategic investment in Switzerland's future. The project will advance scientific discovery while simultaneously strengthening industrial innovation, technological leadership, economic resilience and sustainable high-value employment. By launching the FCC, Switzerland and Europe are investing in an ecosystem that will continue to generate knowledge, capability and prosperity for decades to come.

Conclusion

VDL ETG Switzerland considers the Future Circular Collider (FCC) to be a strategic investment in the future of science, industry and innovation. Beyond its scientific ambitions, the project will generate long-term benefits for Switzerland and Europe by strengthening technological capabilities, fostering collaboration between research institutions and industry, and creating highly skilled employment.

The FCC will provide a framework for developing next-generation technologies in areas such as precision engineering, vacuum systems, cryogenics, advanced manufacturing, automation and digitalization. These developments will not only support fundamental research but will also contribute to innovation in sectors including healthcare, semiconductors, energy and advanced industrial equipment.

For Switzerland, the FCC represents an opportunity to reinforce its position as a world-leading centre for science and technology, attracting talent, investment and international partnerships. For companies such as VDL ETG Switzerland, the project offers opportunities to contribute to challenging engineering solutions, enhance industrial know-how and strengthen global competitiveness.

VDL ETG Switzerland therefore supports the launch of the FCC project as a long-term investment that will create scientific, economic and societal value for future generations while reinforcing Europe's technological leadership.