

Ground segments  
Launchers  
Transversal competencies



TECHNIP ENERGIES is a global engineering company being capable to deliver worldwide global EPC contracts, mainly for energetic sectors such as Gas, Hydrogen, focused on Energy transition, and more generally in industries as Defense & Space fields for which Process and Safety considerations are prevailing.

## COMPETENCIES & CAPABILITIES

- Project management,
- Engineering system for production industrial complexes,
- Specific expertise in pyrotechnical issues,
- Specific expertise for safety in operating (Hazop, Hazid,...),
- Specific expertise in industrial gases issues (cryogenic or not),
- Coating and materials issues,
- Quality assurance and HSE...



# TECHNIP

## PRODUCTS & SERVICES

- Engineering Studies (feasibility studies, Basic Design, Detailed Design, process of gases, specific expertise in safety and pyrotechnical issues, ...),
- Procurement services (European and Worldwide),
- Construction management,
- Precommissioning and Commissioning.
- Pyrotechnical studies.

## MAJOR SPACE PROJECTS & REFERENCES

### **CSG – UPG – Guyana Propellant production plant in Kourou:**

- Basic, Detailed Design, Procurement and Construction (1987-91)
- Additional infrastructure (2<sup>nd</sup> casting building) in 2003 to 2011
- Renewing of the UPG Digital Control System (2012-16)
- Adaptation of the existing NDT facilities (UPG - building 305) for quality control of P120 motors (Ariane 6 and Vega C launchers)

### **CSG – BIP and BPZ:**

- Pyrotechnical expertise and assistance to ESA & CNES SDS

## POINT OF CONTACT

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**TURNOVER** 1 315 M€

**WORK FORCE** 3325 employees

**SPACE TURNOVER** 10 M€

**SPACE WORK FORCE** 50 employees