OUR IN-HOUSE ENGINEERING CREATES A RELIABLE AND OPTIMIZED SOLUTION ADAPTED TO VARIOUS AND DIFFICULT PROJECT CONDITIONS

• Design adapted to all international technical standards.
• Solutions for high seismic activity such as base isolation and anti-liquefaction soil treatment.
• Foundation solutions for any type of soil conditions, with experience of both deep and shallow systems.
• Construction methodologies adapted to the project’s constraints, with experience of modularization to reduce the schedule, warm weather concreting in the desert (beyond +40°C), self-climbing formwork for a hurricane-sensitive area with scarce labor, sliding formwork and cold weather concreting in arctic conditions (down to -45°C).

For each project, our internal design office conducts basic and detailed design for LNG & LPG tanks and marine works. We have capitalized an exceptional know-how from FEED to execution, which enables us to perform an efficient construction-oriented design.

Our main fields of expertise:

• Structural engineering: linear, non-linear and dynamic analyses.
• Geotechnical engineering: soil survey definition and interpretation, conceptual and detailed design for foundations, earthworks, soil improvement, hydrogeology, etc.
• Concrete: project requirements, supplier specifications, material selection, batching plant definition, mix design, testing, production monitoring, training.

Using dedicated software such as: RM 2006, CESAR-LCPC, RGB/ICW, GP 3D, PLAXIS, SOFISTIK, HERCULE, LS DYNA, ANSYS, RIDO, TALREN, EFFEL.

Safety is driving the design and construction methodology from the beginning of the engineering phase.

VINCI Construction Grands Projets is a subsidiary of VINCI group, a global player in concessions and construction, employing close to 185,000 people in some 100 countries.

Throughout the world, VINCI Construction Grands Projets designs and builds major civil engineering structures (LNG & LPG tanks, tunnels, bridges, dams, road and rail infrastructures) and buildings (skyscrapers, shopping centers, hotels, major industrial facilities, nuclear power plants...).

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LNG & LPG TERMINALS

WORLDWIDE PRESENCE OF VINCI CONSTRUCTION GRANDS PROJETS AND REFERENCES IN THE LNG & LPG SECTOR

In Europe
- Rotterdam (The Netherlands, 2007-2011)*
- Brindisi (Italy, 2005-2008)*
- Huelva 2 (Spain, 1990-1991)*
- Montoir de Bretagne (France, 1981-1983)*
- Terneuzen (The Netherlands, 1980-1982)*
- Fos-sur-Mer (France, 1976-1978)*

Around the world
- Yamal (Russia, from 2013)
- Wheatstone (Australia, from 2012)
- Skikda (Algeria, 2008-2012)*
- Costa Azul (Mexico, 2005-2007)*
- Ras Laffan (Qatar, 2004-2007)*
- Idku (Egypt, 2002-2005)*
- Bonny Island (Nigeria, 1996-1999)*
- Ras Laffan (Qatar, 1995-2000)*
- Das Island (United Arab Emirates, 1982-1986)*
- Ruwais (United Arab Emirates, 1979-1981)*

Our projects underway & presence (subsidiaries)
LNG & LPG sector: projects underway & references*

3D modelization with “Pendulum” foundation system

40 YEARS EXPERIENCE IN EPC CONTRACTS FOR LNG & LPG PROJECTS

Our dedicated division within VINCI Construction Grands Projets efficiently coordinates the resources of the VINCI group in one project team to satisfy Oil & Gas companies’ needs. Thanks to our multidisciplinary skills and technical expertise, we are the partner you need to secure the delivery of your EPC projects.

ENGINEERING:
Our engineering division participates in the development of all major engineering projects, from defining initial specifications to final commissioning. Throughout the design process, we analyse each decision and its impact on every aspect of the project.

PROCUREMENT:
We proactively manage supplies and logistics as a key factor to meet the project’s schedule. Our extensive international experience enables us to operate in very challenging environments, such as remote locations and extreme climates.

CONSTRUCTION:
We provide in-house world-class project management teams, committed to provide a safe working environment while meeting the client’s expectations. Focusing on our values, we implement win-win partnerships with local companies and communities.

SITE PREPARATION

MARINE WORKS
OUR CORPORATE SOCIAL RESPONSIBILITY & SUSTAINABLE DEVELOPMENT POLICY

The Safety First policy applies to everyone within the organization, at every level, to ensure that worksites remain safe and that each and every person’s well-being is respected. Safety is also a source of progress, as it fosters work quality and contributes to our know-how, experience and competence.

Since 2012, Skill up has operated as a mobile training school for workers around the world. Project managers identify tasks on which local workers need to be trained (knowledge and skills), in order to achieve our quality and safety criteria.

• 697 workers attended Skill up training (on site).
• 12 Skill up trainers.

VINCI is committed to protecting the environment at its worksites through the protection of natural sites, plants and wildlife on all its worksites, active pollution prevention, improvement to the comfort level of neighboring populations, better communication with stakeholders, and more.

VINCI signed on with the principles of the Global Compact in April 2003 (a UN initiative). The company is committed to respecting the 10 principles of the Global Compact, in the areas of human and labor rights, environmental protection, and anti-corruption efforts.

VINCI Construction Grands Projets is certified:

- Skikda (Algeria)
- Yamal (North Siberia, Russia)
- Costa Azul (Mexico)
- Wheatstone Project (Western Australia)
- Ras Laffan (Qatar)
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SiD – SAFETY IN DESIGN
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- Wall slip-forming in arctic “summer”
- Innovative pile design in the permafrost
- Self-climbing formwork in remote warm region
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