



Oil & Gas solutions since 1963



Società Generale Impianti Gas SpA

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Paid up capital: € 5.000.000,00

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**ENGINEERING SERVICES
AND PROCUREMENT**

- PROCESS
- PIPING
- MECHANICAL
- PACKAGES
- ELECTRICAL
- INSTRUMENTATION AND AUTOMATION
- CIVIL
- LPG/LNG APPLICATIONS
- FORECOURTS

- ❑ We provide engineering services for a whole range of applications, in compliance with ISO 9001:2015 certification, ISO 45000 certification and current applicable international standards. SGIG has adopted an environmental management system in accordance with ISO 14001 standard.
- ❑ SGIG stands out in the supply of fueling plants, with more than 60 years of installation of forecourts dispensing LPG, CNG, LNG gasoline and diesel fuels, as well as design and construction of tank farms for a wide variety of products (LPG, CNG, LNG, oxygen, Dimetyliether, Ammonia, HFO, Jet A-1 etc).
- ❑ SGIG has developed a significant experience in engineering and construction of cryogenic plants, in particular L-LNG/L-CNG fueling stations
- ❑ Project managers are highly qualified, paying constant attention to HSEQ, cost management standing out for dynamism, versatility and experience in production and management of multidisciplinary projects.
- ❑ Main references: Wartsila Italy, Esso Italy, Shell Italy, ENI, Q8, GASCO Malta, Liquigas, Kremsmueller Romania, Loacker SpA, Socogas SpA, Wolf tank DGM, Molgas Italia

S.G.I.G. SpA

- ❑ Turnover 2025: € 9.600.000
- ❑ Workforce: 50
- ❑ Dedicated skilled engineers for remote technical support: 3 (on call/proactive service)
- ❑ Technical Department: 10 engineers
- ❑ Senior project managers: 3
- ❑ Service experienced personnel: 10
- ❑ Field operators (welders, electricians, process engineers): 8



1963



2023

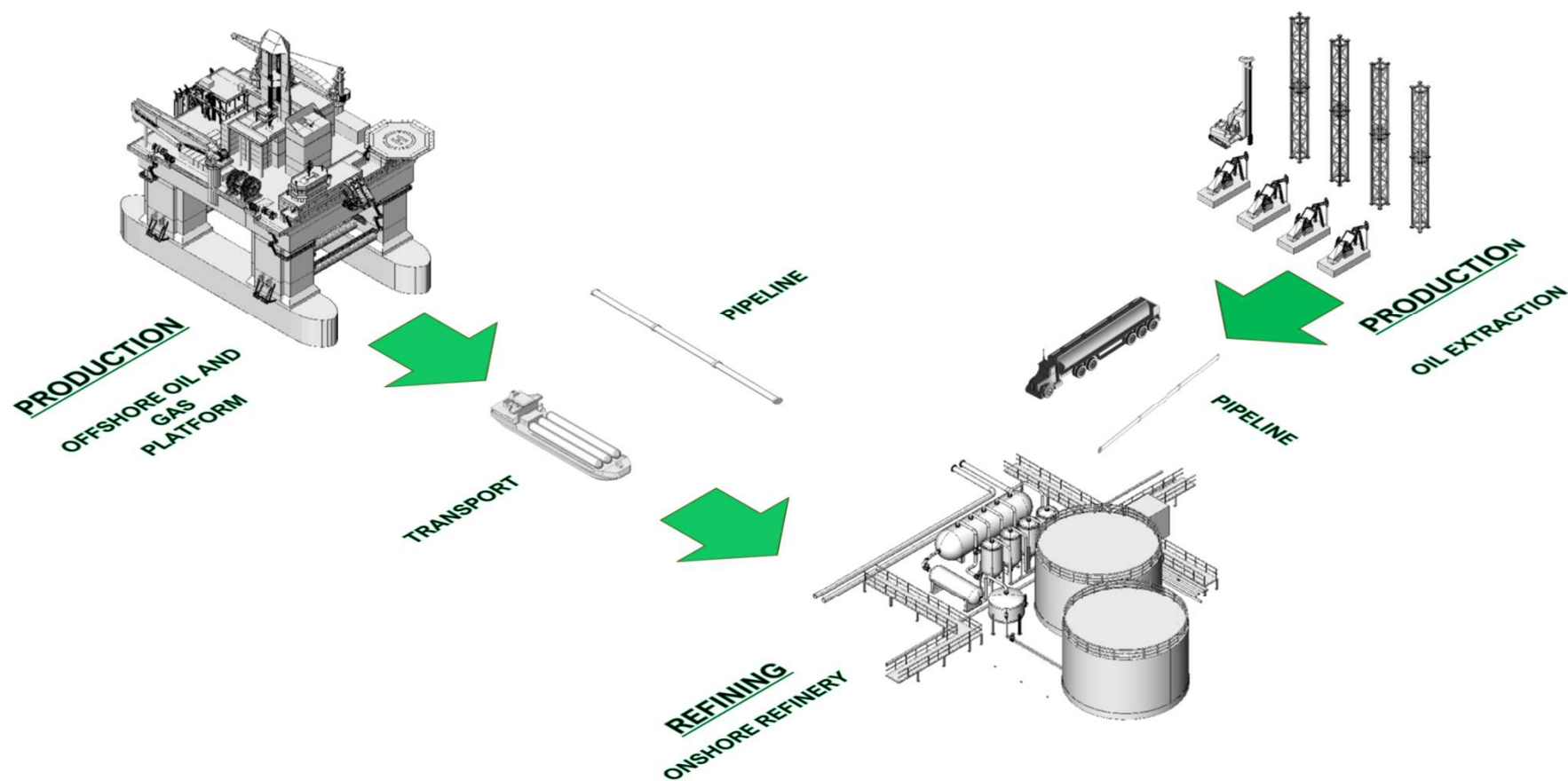
Società Generale Impianti Gas



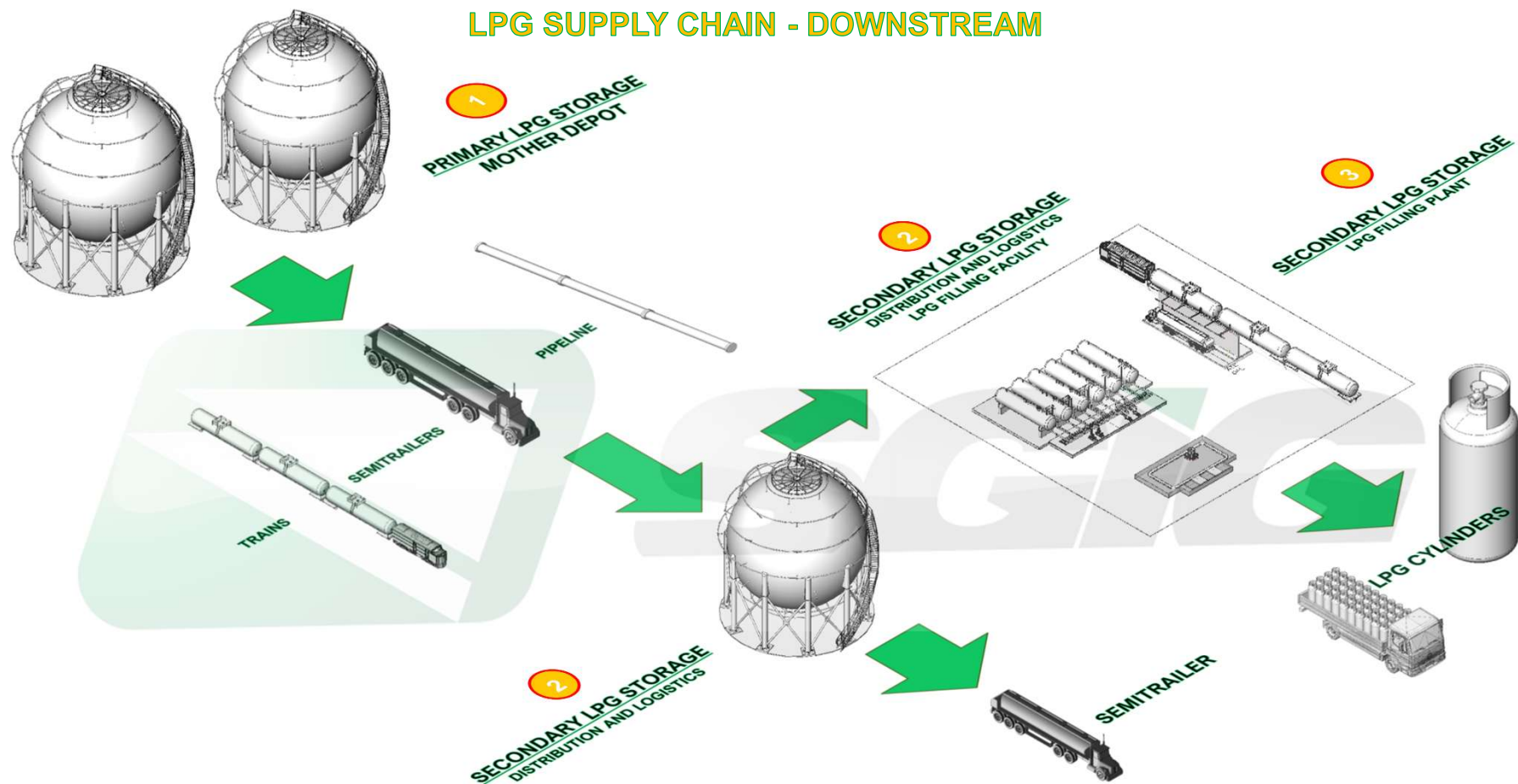
**YOUR TECHNICAL PARTNER DEVELOPING
DOWNSTREAM LPG BUSINESS**



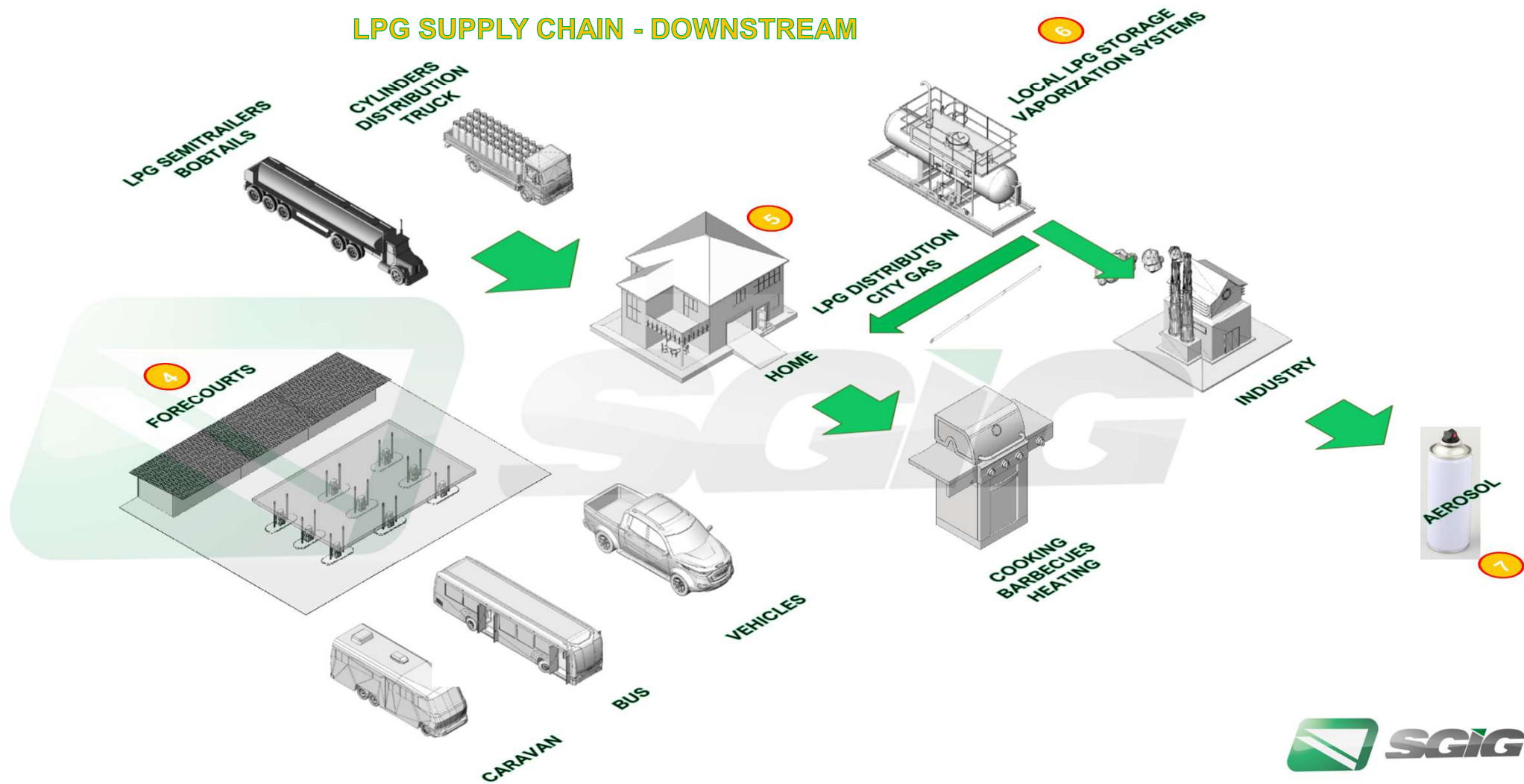
LPG SUPPLY CHAIN - UPSTREAM



LPG SUPPLY CHAIN - DOWNSTREAM



LPG SUPPLY CHAIN - DOWNSTREAM



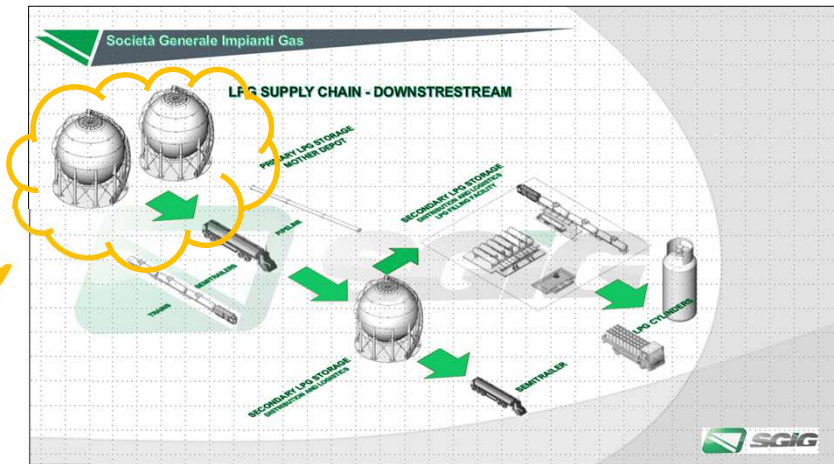
PRIMARY LPG STORAGE



Primary LPG storage - spherical tanks – Massawa - Eritrea

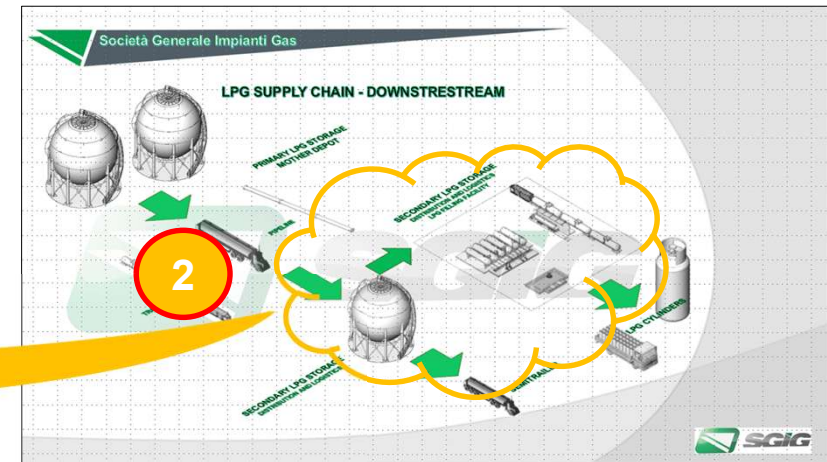


Primary LPG storage - horizontal buried tanks – Venice - Italy



- loading/offloading LPG semitrailers and rail tanks
- LPG carriers offloading;
- LPG storage in large tanks (normally spheres or bullets)

SECONDARY LPG STORAGE



- ❑ From small to medium storage capacity
- ❑ LPG storage intended for distribution within a regional area.
- ❑ Storage capacity and equipment depending on market type and volume.

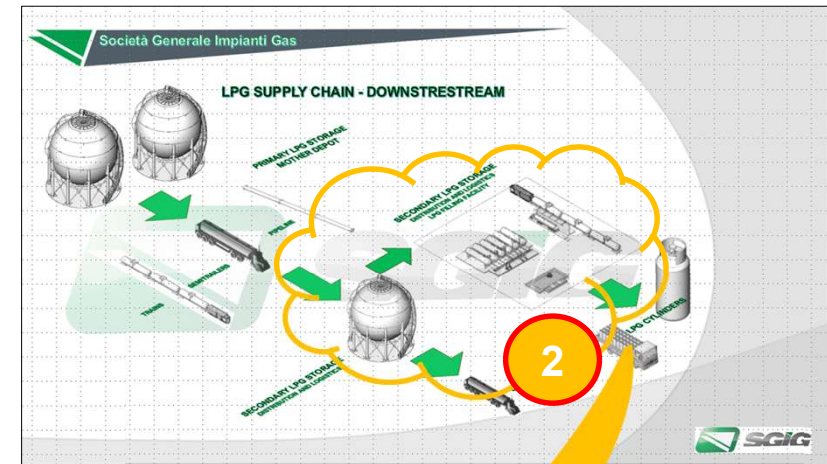
It may include:

- ❑ Loading/offloading of LPG semitrailers/bobtails/rail tanks
- ❑ LPG storage in medium/large tanks
- ❑ LPG cylinder filling facility
- ❑ GAS distributed downstream to local users
 - ❑ Forecourts
 - ❑ Industries (LPG vaporization, aerosol)
 - ❑ Domestic use

SECONDARY LPG STORAGE

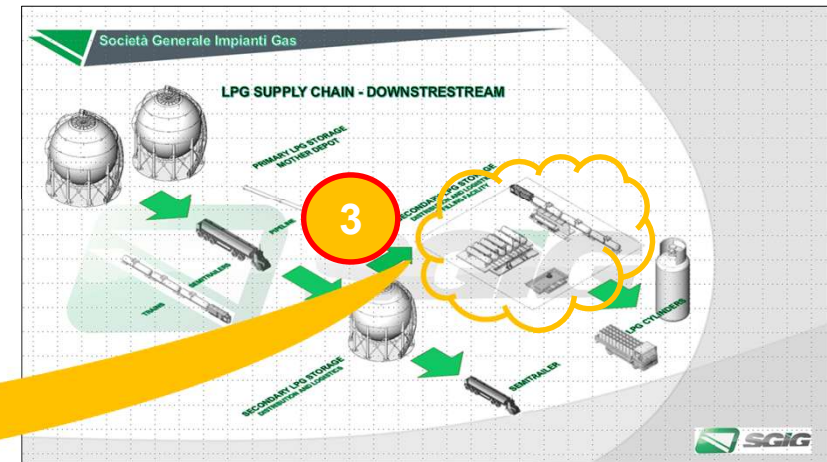


Corken LPG compressors mounting



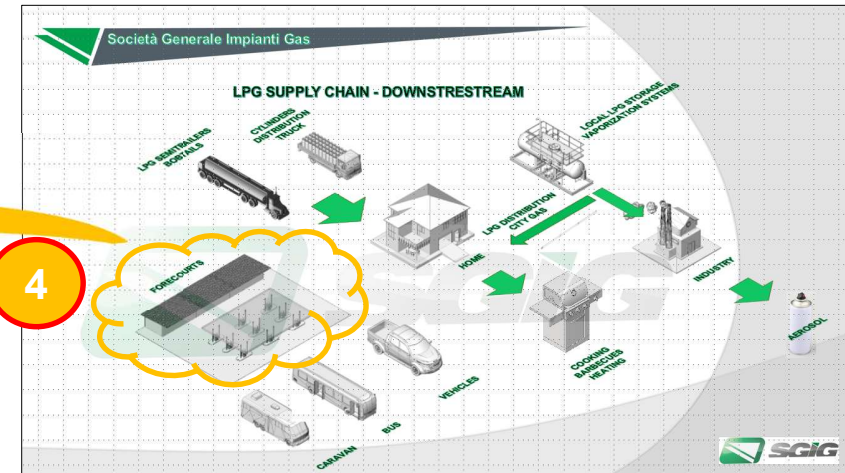
Secondary LPG storage – LPG loading/offloading point and pump room

LPG FILLING PLANT



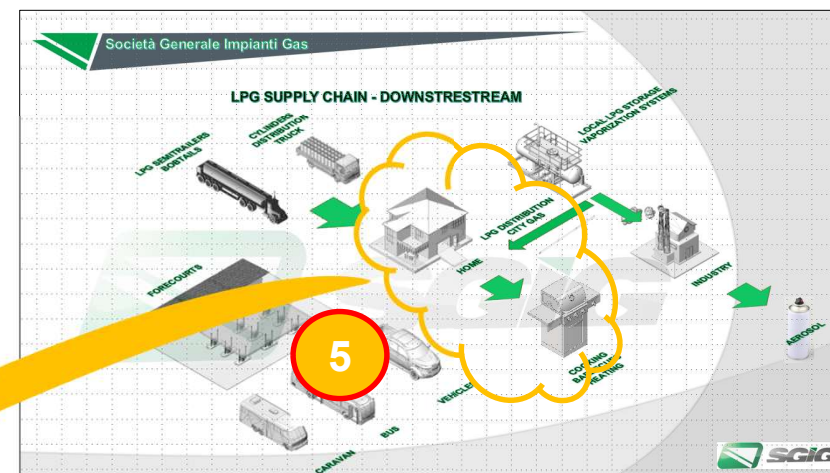
- ❑ LPG is filled in cylinders with different capacity.
- ❑ Filling capacity, technology and level of automation varies significantly.
- ❑ Depending on market volume and type SGIG may provide different tailored solutions from fully manual to fully automatic.
- ❑ Filling stations are fully integrated with the LPG storage station.
- ❑ Customized container filling station also available

FORECOURTS



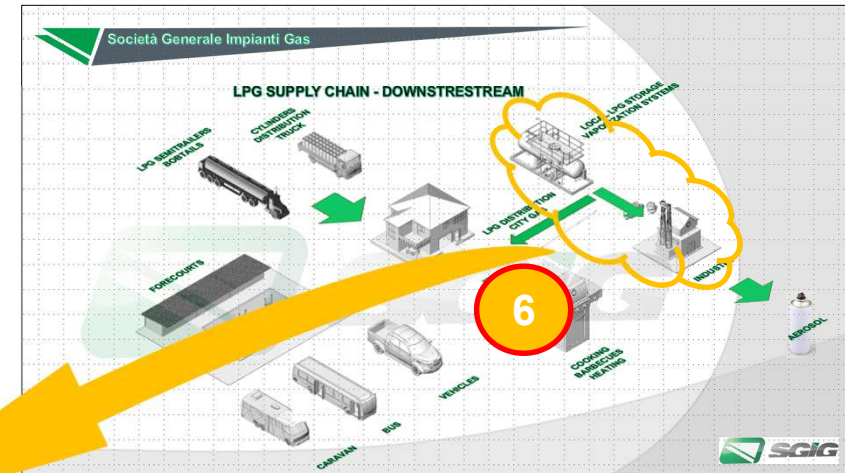
SGIG is an Italian leading company for the supply of fuel plants for automotive, with more than 60 years of installation of forecourts dispensing LPG, CNG, LNG, gasoline and diesel fuels.

CITY GAS - DOMESTIC USE



- ❑ LPG storage and distribution network for houses, buildings, local areas
- ❑ Pipeline supervision systems.
- ❑ LPG tank level remote control

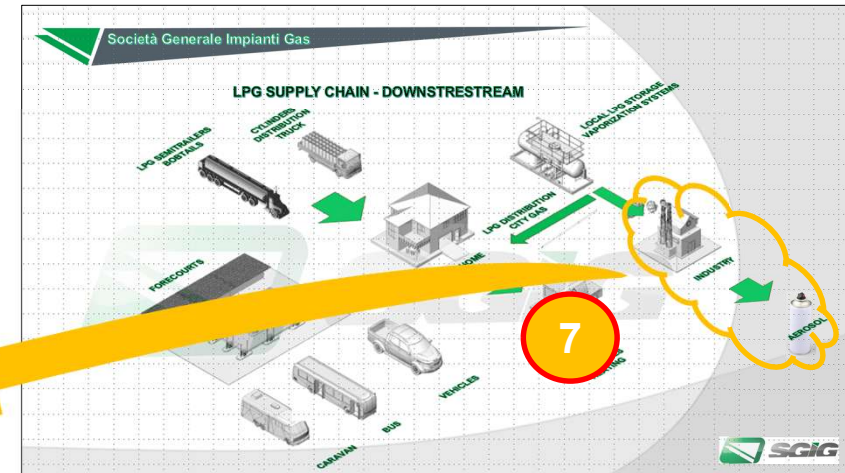
INDUSTRIAL PLANTS



Gas storage and vaporization systems in combination with pressure reduction groups provide the required LPG flow rate and pressure for several industrial use:

- ❑ Boilers
- ❑ Heating/cooling equipment
- ❑ Power generation
- ❑ Burners
- ❑ Etc.

AEROSOL FILLING PLANTS



- ❑ Integration of aerosol filling equipment and gas storage facility
- ❑ Engineering and procurement of mixing stations
- ❑ Fire&gas systems for the whole facility
- ❑ control system and safety equipment (gas detector, fire detectors, control systems for potentially explosive atmospheres, etc)

ENGINEERING

PROCESS

- ❑ Feasibility study
- ❑ PFD/material analysis
- ❑ P&ID
- ❑ Hydraulic/Thermodynamic sizing and process simulation
- ❑ Calculation for equipment sizing and piping
- ❑ Data sheet and technical specifications

PIPING

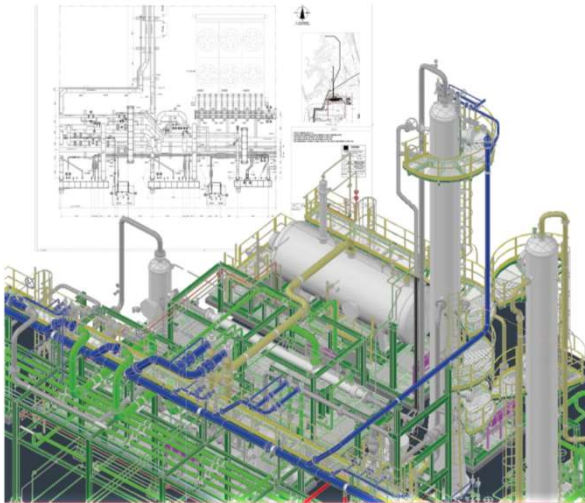
- ❑ Piping and support
- ❑ Stress analysis
- ❑ 3D piping modeling and rendering
- ❑ SKID design
- ❑ Plot plan and lay-out
- ❑ Sketches
- ❑ Bill of material, lines, support
- ❑ Thermohydraulic calculations
- ❑ Ventilation and HVAC
- ❑ Fireproof design
- ❑ FAT/SAT

Fully detailed piping engineering, 3D modeling, plot plans, piping lay-out, isometric and support drawings. Every critical issue covered with dedicated stress analysis in compliance with current regulation and International Codes and Standard.

MECHANICAL

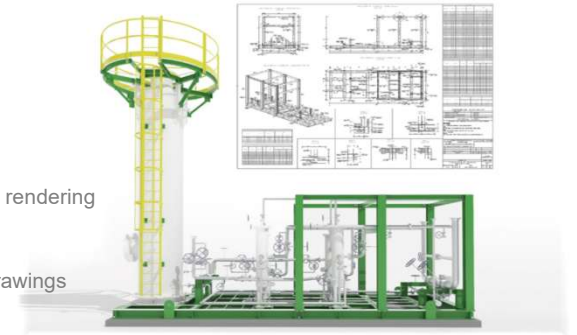
- ❑ Tank and slot design
- ❑ 3D tank modeling
- ❑ One-line structure drawing
- ❑ 3D structures modeling and rendering
- ❑ Structure calculation
- ❑ Erection lay-out structure drawings
- ❑ Equipment data sheets
- ❑ MTO

We design steel structures for the erection of any type of industrial plant, from one line feasibility frames up to structural calculation and architectural details.



VARIOUS

- ❑ Data and telephone network
- ❑ CCTV design
- ❑ Packaging systems
- ❑ Fireproof design
- ❑ Fire fighting network analysis and calculation (according to API, NFPA, ISO.. and local regulations)
- ❑ Top event analysis
- ❑ Testing of supplies
- ❑ Paging design
- ❑ Cathodic protection system for pipeline and tank
- ❑ Welding test and NDT



ENGINEERING



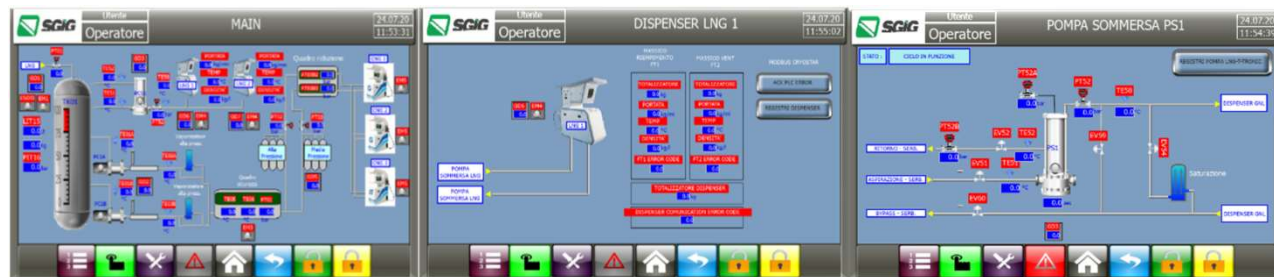
ELECTRICAL

- ❑ Network analysis
- ❑ Protections' coordination & cables
- ❑ Data sheets and technical specification
- ❑ Electric substations HT/MT design
- ❑ Electrical lay-out
- ❑ Classification of dangerous zones ATEX
- ❑ SIL analysis
- ❑ LPS
- ❑ Technical bids
- ❑ Economical bids

INSTRUMENTATION AND AUTOMATION

- ❑ P&ID
- ❑ Data sheets and technical specification
- ❑ Control systems for chemical plant DCS- SCADA/OR schemes
- ❑ AND/OR schemes
- ❑ Process, pneumatic, electrical connections
- ❑ Instrumentation lay-out
- ❑ Technical bid

In accordance with P&ID statements and other detailed information, we select and design proper instrumentation in order to get the required monitoring features of field equipment



PROCUREMENT



- ❑ Purchase assistance and technical evaluation for all material and services within the engineering scope of work
- ❑ Technical and economical BIDS

COMMISSIONING, STARTUP

- ❑ Welding controls
- ❑ Destructive and non-destructive tests
- ❑ Painting thickness test
- ❑ Hydro test
- ❑ Mechanical alignments
- ❑ Mechanical completion
- ❑ Instrumental calibration
- ❑ Control system FAT/SAT
- ❑ Relay calibration
- ❑ HV/MV/LV panel board test
- ❑ Safety system test
- ❑ Fire fighting test
- ❑ Environmental test
- ❑ Start up procedures
- ❑ Training



Testing a sprinkler system on a loading/offloading bay



Test of a water monitor on a spherical LPG tank

CRYOGENIC PLANTS



LNG fueling plant – Fidenza - Italy

SGIG provides LNG/L-CNG fueling stations for trucks and vehicles.

SGIG has developed a modular station, which can be easily customized and upgraded, if needed, granting the highest level of reliability and efficiency on the market.

The SW provided on the station is designed to control the whole plant, including fire & gas safety system.

The SW allows on-line remote control.

The after sale maintenance engineers as well as the client may control the relevant data from the station, including KPI, historical trends, process parameters, directly from the internet browser and proactively operate in order to minimize downtime.

CRYOGENIC PLANTS



Ethane storage and vaporization plant – Trieste - Italy

LNG/BIO-LNG PLANTS



- Loading bays for bioLNG semitrailers downstream liquefaction plants.
- Construction/interconnection pipework and after sale service on the whole biogas upgrading and liquefaction plant
- integration of biogas plant with fueling station for trucks and vehicles.



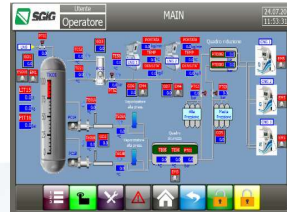
LNG/BIOLNG/LPG PLANTS SERVICE PROGRAM

Oil and Gas plants require periodical check, to ensure operation efficiency and safety.

SGIG service program may include:

- A scheduled service program, including regular functional check
- A set of spare parts to minimize equipment downtimes.
- Service skilled engineers with fast response times and remote assistance.
- technical consultancy service to improve performance and safety with tailored solutions
- On site service, with 4 service hubs on the Italian territory
- 24/7 availability for commercial or emergency service request
- SLA to be agreed in accordance with client needs

LNG/BIO-LNG/LPG PLANTS



- Remote plant monitoring (performance, safety, kpi)
- Proactive maintenance service



- 24/7 call center
- Qualified technical support
- Service level agreement options



- 4 maintenance hubs on the Italian territory



- DOC management



- 24/7 Emergency service



- Service on call
- Periodical maintenance
- Global service
- Skilled personnel



- Spare parts availability



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SGIG