

Liquid hydrocarbons

OWNER	SITE	COUNTRY	SERVICES	PERIOD
GEOSTOCK IBERIA	Pinoso	Spain	Engineering and technical assistance	2009
PETROVIETNAM	Dung Quat	Vietnam	Preliminary geological mission	2009
PETROVIETNAM	Long Son	Vietnam	Site investigation and Basic design for a Crude oil storage in mined caverns	2009
EIL	Mangalore	India	Back up consultancy design and construction of strategic storage of crude oil in mined caverns	2008
ACS	Pinoso	Spain	Prefeasibility study for underground storage of liquid hydrocarbons in Pinoso diapir	2008
INEOS ENTERPRISES	Stublach	United Kingdom	Prefeasibility Study – Oil storage in salt caverns	2007
SKEC	Ulsan	South Korea	Review of vertical Water Curtain System for a crude oil underground storage project in mined cavern	2007
JTC CORPORATION	Jurong	Singapore	Basic Engineering Design & Construction Management Services for the underground caverns, associated underground/aboveground facilities & Jetty of Phase 1	2007
JTC CORPORATION	Jurong	Singapore	Flexibility Study II of the feasibility study	2006
JTC CORPORATION	Jurong	Singapore	Project Consultancy for the access shafts	2006
CLH	Multisites	Spain	Site selection preliminary study	2006
EIL	Padur	India	Assistance for detailed feasibility report of a crude oil storage project in mined caverns	2005
SAGESS	Manosque	France	Construction management of a pipeline (Phase 2)	2005
SAGESS	Manosque	France	Construction management of existing pumping stations extension (Phase 2 of the new pipeline Manosque-Rognac-Fos sur Mer)	2005
JPOWER	Kuji	Japan	Expert review on an existing liquid mined storage facility	2005
LES CARBURANTS DE NORMANDIE	Brecourt	France	Hydrogeological study for liquids storage rehabilitation	2005
GEOSSEL	Manosque	France	Engineering, project management and assistance to construction of pipelines on an existing site	2005
GEOSSEL	Manosque	France	Engineering, project management and assistance to rehabilitation works of a brine and hydrocarbon pond	2005
JPOWER	Kuji	Japan	Hydrogeological data analysis on an existing liquid mined storage facility	2005
JOGMEC	Kikuma Kushikino	Japan	Safety Reports for liquid hydrocarbon mined storage	2005
JTC CORPORATION	Jurong	Singapore	Feasibility study for multiproducts mined storage facility	2004
JPOWER	Kuji	Japan	Assistance to operation of a crude oil storage in mined caverns (safety and performance)	2004
JPOWER	Kuji	Japan	Assistance to operation of a crude oil storage in mined caverns (hydrogeology)	2004

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CPPE	3 sites	China	Prefeasibility study of crude oil underground storage facilities	2004
GEOSEL	Manosque	France	Engineering study and implementation of an experimental long term follow-up program to guarantee caverns tightness.	2004
GEOSEL	Manosque	France	Project management of caverns casings inspection	2004
GEOSEL	Manosque	France	Project management of caverns re-leaching (two caverns)	2004
GEOSEL	Manosque	France	Assistance to pipeline intelligent pigging inspection	2004
GEOSEL	Manosque	France	Project management of an abandoned pipe neutralization	2004
GEOSEL	Manosque	France	Geotechnical study for implementing new cavern stability rules	2004
GEOSEL	Manosque	France	Management of upgrading of product inventory information system	2004
GEOSEL	Manosque	France	Hazard study for hydrocarbons or brine pipeline pumping station	2004
GEOSEL	Manosque	France	Engineering study for replacement of Geosel pipeline under Berre lake	2004
GEOSEL	Manosque	France	Project management of realization of new hydrocarbons and brine pipelines	2004
SAGESS	Manosque	France	Basic design and permitting for building a new pipeline	2003
GEOSEL	Manosque	France	Extension of the operation contract for liquid hydrocarbon salt leached caverns storage facility.	2002
GEOSEL	Manosque	France	Prefeasibility study and design study for a new high flowrate pipeline construction.	2002
GEOSEL	Manosque	France	Engineering and supervision for repair and replacement of pipelines in operation.	2002
GEOSEL	Manosque	France	Long-term test on crude oil salt leached cavern storage.	2002
GEOSEL	Manosque	France	Re-leaching of two caverns for volume increase.	2002
SSM	Mohammedia	Morocco	Preliminary study for liquid hydrocarbon storage in salt leached caverns	2001
GEOSEL	Manosque	France	Owner's representative and construction manager for planning of pipelines system upgrading (replacement of pipes and internal coating) and construction of a brine pumping station.	1997/1998
PETROLEUM AND ENERGY INFRASTRUCTURES	Haifa	Israël	Preliminary study for crude oil mined storage facility.	1994
GAZPROM	Yamal	Russia	Preliminary study for crude oil mined storage facility.	1994
GEOSEL	Manosque	France	Owner's representative and construction manager for site upgrading (risks and pollution prevention), improvement of equipment reliability, and implementation of centralized control system.	1992/2000
HONAM OIL REFINERY Co. Ltd	Yosu	South Korea	Prefeasibility study, site exploration and feasibility study for liquid products mined storage facility.	1991/1992
ELF AQUITAINE PETROLEUM	Matagorda	USA	Prefeasibility study for salt cavern storage for crude oil.	1986
MAHRUKAT		Syria	Technical and economic feasibility of underground storage facility in Syria.	1986

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OWNER	SITE	COUNTRY	SERVICES	PERIOD
IMP/PEMEX	Tuzandepetl	Mexico	Construction of a crude oil salt caverns storage facility (12 caverns: 1 500 000 m ³). Preliminary and feasibility studies. Basic and detailed designs. Supervision of construction, acceptance tests, commissioning and start-up. Sonar monitoring.	1984/1992
GEOMINES	May sur Orne	France	Prefeasibility study for conversion to crude oil of a diesel oil storage in a disused iron mine.	1983
SHELL	Pulau Bukom	Singapore	Preliminary study of potential possibilities for storage.	1981
OBAYASHI	Kikuma	Japan	Design criteria for Kikuma storage pilot unit in mined cavern.	1980
CONSORTIUM / CARBURA	Oldis	Switzerland	Design study and construction of access adit to storage works.	1980
BDM		USA	Specification of design criteria for crude oil storage facility in salt caverns.	1979
TAIWAN POWER CORP.	Taiwan	Taiwan	Design study for conversion of copper mine to diesel oil storage.	1979
ISHIHARA	Kishu	South Korea	Design study for conversion of disused copper mine to crude oil storage.	1978
KNOC	Seoul	South Korea	Construction of a 251 000 m ³ diesel fuel mined storage facility (2 caverns). Preliminary and feasibility studies. Basic and detailed designs. Supervision of construction, acceptance tests, commissioning and start-up.	1977/1982
GSI	Allen Dome	USA	Feasibility study for salt leached cavern storage facility.	1976
BP/SHELL/ELF/TOTAL	Jouques	France	Survey of salt deposits around Jouques.	1976
WABANEX	Wabana	Canada	Design study for converting Wabana disused iron mine to crude oil storage.	1976
MORTON SALT		USA	Study for converting salt mines to storage.	1976
PUBLIC UTILITY		Denmark	Feasibility study for crude oil mined storage facility.	1975
ICI	Billingham	United Kingdom	Design study for conversion of Billingham anhydrite mine to storage.	1975
MOBIL	Frontignan	France	Survey of mined storage possibilities.	1974
SAARLAND REFINERY		Germany	Design study for mined storage facility.	1974
BP/VTG/PAKTANK/GK		Germany	Survey of potential storage sites.	1974
ONTARIO HYDRO	Wesleyville	Canada	Design and construction of access tunnel for crude and fuel oil storage facility.	1974/1978
TECHNIP / SHAHEEN	Come	Canada	Feasibility study for mined storage facility.	1974
BP/SHELL/ELF/TOTAL		South Korea	Survey of potential mined storage sites.	1974
DANSKE OLIE		Denmark	Study of conversion of brine production caverns to diesel fuel storage.	1974
DANSKE OLIE		Denmark	Survey of potential mined storage sites.	1974
CONSOLIDATED EDISON	New York	USA	Design study of potential mined storage sites for heavy fuel oil.	1974
CFR (TOTAL)	La Mède	France	Design study for liquid products mined storage.	1974
BP/SHELL/ELF/TOTAL	Nice	France	Feasibility study for jet fuel mined storage.	1974
BP/SHELL/ELF/TOTAL	Saint Pierre	France	Study for converting Saint Pierre gypsum mine to storage.	1974

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OWNER	SITE	COUNTRY	SERVICES	PERIOD
MONTEDISON	Priolo	Italy	Design study for liquid products storage facility.	1974
GABINETE DE AREA DE SINES	Sines	Portugal	Design study for access adit for crude oil storage facility at Sines seaport.	1974
SHETLANDS COUNTY COUNCIL	Sullom Voe	United Kingdom	Design and construction of access adit to crude oil storage caverns.	1974
MOBIL	Coryton	United Kingdom	Survey of potential mined storage sites for liquid products.	1974
ESSO / SHELL		United Kingdom	Survey of potential mined storage sites for liquid products.	1974
BP	Sullom Voe	United Kingdom	Feasibility study for crude oil mined storage facility.	1973/1974
ICI / PIP		United Kingdom	Survey of potential storage sites.	1971
DEPOSITOS SUBTERRANOS	Bilbao	Spain	Design studies for converting Bilbao iron mine to crude oil storage.	1970
GEOSEL	Manosque	France	Operation of the facility.	1969/...
GEOMINES	May sur Orne	France	Conversion of a disused iron mine to a diesel storage facility (5 000 000 m ³). Preliminary and feasibility studies. Basic and detailed designs. Owners' representative for construction and construction management. Acceptance tests and commissioning. Assistance to administrative authorizations. Operation of the facility. Management of its decommissioning.	1969/1993
GEOSEL	Manosque	France	Construction of salt caverns storage facility (28 caverns: 6 500 000 m ³) for crude oil, diesel oil, gasoline and naphtha. Preliminary and feasibility studies. Basic and detailed design. Owner's representative and construction manager. Acceptance tests, commissioning and start-up. Assistance to administrative authorizations. Training of operators and preparation of operating documents.	1965/1969