

MICHELE GENOVA

Founder & Technical Advisor | Senior Engineering Executive

Energy Transition | LNG | Hydrogen | Ammonia | Carbon Capture | EPC/FEED

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EXECUTIVE PROFILE

Senior Chemical Engineer and Engineering Executive with over 40 years of international experience in Oil & Gas, LNG, Refining, Petrochemicals, Steel, Power, Hydrogen, Ammonia, Carbon Capture and Circular Economy projects. Proven track record across feasibility studies, technology selection, Basic Design, FEED, EPC, detailed engineering, operations, pre-commissioning and commissioning. Founder of ICS Industrial Consulting Service, supporting investors, developers and industrial companies in project development, energy transition and sustainable industrial initiatives.

EXECUTIVE HIGHLIGHTS

40+	International	FEED/EPC	Speaker
Years Experience	Project Leadership	Full Project Lifecycle	Technical Conferences

CORE EXPERTISE

Process Engineering & Design	FEED, EPC & Project Development	Energy Transition & Decarbonization
LNG Liquefaction, Receiving & Regasification	Hydrogen Production & Ammonia Cracking	Green Ammonia & e-Fuels
Carbon Capture & CO2 Liquefaction	Gas Treatment, Dehydration & Sweetening	Refining & Petrochemical Revamping
Technology Selection & Licensor Management	Multidisciplinary Team Leadership	Operations & Engineering Management

PROFESSIONAL EXPERIENCE

ICS Industrial Consulting Service Srls, Milan, Italy | Founder & Technical Advisor | 2021-Present

- Supports industrial companies in innovation, project development, ecological transition and circular economy initiatives.
- Coordinates specialized engineering collaborations and multidisciplinary technical teams.
- Provides feasibility studies, technical advisory, process engineering, technology selection and cost-estimate support.

Sicon Oil & Gas SpA, Milan, Italy | Operations Director / Engineering Manager | 2014-2021

- Managed operations, engineering execution, safety, productivity and quality-control activities for international EPC projects.
- Led design teams, project engineers and technical coordination from proposal through commissioning.
- Supported business development, project delivery, vendor management and organizational improvement.

Techint SpA, Milan, Italy | Sulphur Technology Manager / Process Department Manager / Senior Process Engineer | 1990-2013

- Led process and risk engineering teams for proposals and project execution in oil, gas, refinery, petrochemical and power sectors.
- Managed feasibility studies, FEED, EPCM and detailed engineering activities, including audits, peer reviews and client interface.

- Directed technology selection and licensor relationships for sulphur and environmental process technologies.

Earlier Career | Siirtec Nigi / NIGI / Worthington | 1983-1998

- Process Manager and Senior Process Engineer in gas treatment, refinery, refrigeration and packaged-unit projects.
- Performed process simulation, heat and material balances, equipment sizing, process data sheets and plant optimization.

SELECTED MAJOR PROJECTS

Client / Owner	Project / Scope	Country	Role
POLY-GCL / Petroleum Group Holdings	Rainbow East Africa Gas Pipeline & LNG Plant; LNG Djibouti Plant, including upstream treatment, 750 km pipeline, compression stations and LNG liquefaction	East Africa / Ethiopia	Technical Coordinator / Technical Advisor
COIPA Energy S.A.	Green Ammonia Plant, 300/600 MTD, including PV solar, electrolyser, ASU, ammonia synthesis and OSBL	International	Executive VP / Technical Coordinator
POSEIDON LNG HUB	Dolphin FHPU feasibility study: 100,000 Nm ³ /h hydrogen via green ammonia cracking, hydrogen separation, nitrogen liquefaction, OSBL and subsea pipeline	Italy	Technical Coordinator
Prometheus Green Power	Colibry Project: biomass gasification feasibility study, 7 t/h biomass, power, methane, liquid methane and hydrogen production cases	Italy	Technical Coordinator
Rina Consulting / Baker Hughes	Engineering services, layout review and investment cost estimate for carbon capture and CO ₂ liquefaction demo/commercial plants	Italy / Canada	Consultant / Technical Advisor
ADNOC / ADMA-OPCO / QP	Power control upgrade, NASR Phase II power generation facility and Hamad International Airport Jet A-1 supply pipeline	UAE / Qatar	Engineering / Operations Leadership
ENI / Techint	Hydrogen production plant 55,000 Nm ³ /h; refinery revamping, HDS and flare-system analysis projects	Italy	Process Department Manager
Costa Azul LNG, Vopak Gasunie LNG, MEDGAS, ALT LNG – Led process engineering activities for major LNG receiving terminals, regasification plants and offshore LNG developments, supporting project execution from feasibility through FEED and detailed engineering. Worldwide Process Engineering Manager	LNG receiving, regasification and offshore LNG terminal projects and offers	Europe	Process Leadership
EMethanex	Methanol plant, 3,600 MT/d	Egypt	Process Leadership
PEMEX / QatarGas / Gazprom / KOC	Nitrogen removal, gas dehydration, glycol regeneration, dew-point control and sweetening units	Mexico / Qatar / Russia / Kuwait	Process Manager / Lead Engineer

CURRENT ADVISORY FOCUS

- Project framing and technical due diligence for industrial investors and developers.
- Feasibility studies and early-stage project definition for energy transition and circular economy initiatives.
- Technology screening, licensor comparison and process configuration review.
- Owner's engineering support, multidisciplinary design review and strategic technical coordination.

EDUCATION, LANGUAGES & TOOLS

Education	Languages	Technical Tools
Master's Degree in Chemical Engineering, University of Naples	Italian: Native	AspenTech Suite, HYSYS, Aspen Plus, PRO II
Professional Engineer Licence, Italy	English: B2	HTRI, Flaresim
Registered Professional Engineer, Milan	French: A2/B1	MS Project, Primavera, Aveva E3D, Microsoft Office

SELECTED PUBLICATIONS & CONFERENCES

- The Norilsk Nickel Project: An Innovative Solution for a Major Environmental Challenge - Industrial Plants, 2013.
- SO₂ Removal from Metallurgical Process Off-Gas - Norilsk Conference, 2012.
- Single Column to Recover Methanol Vapor from Tankage and Loading Facilities - Dubai, 2011.
- Retrofitting Study for a 120 MW NGCC Plant with Post-Combustion CO₂ Capture - S4FE, Rome, 2009.
- PRA.T.O.: Project to Optimize Pre-Combustion Technology for CO₂ Capture - Coal-Gen Europe, 2008.
- CO₂ Capture & Storage - International School of Geophysics, Erice, 2007.
- Ecological High Purity TEG Regenerator - IBC Conference, Oslo, 1998.

PROFESSIONAL AFFILIATIONS

Former memberships: GPA Europe, AIDIC, EFCE, HTRI. Former honorary member of the OICE Energy Working Group.