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## FOCUS



Fabio Ziliotto, Managing Director,  
Industry Division

*Europeans want clean energy, and despite progress on alternative sources, in the short term the only answer is to use more gas.*

*Over the next ten years methane is expected to become the main source of energy in Italy, and Italy could become the main hub for importing gas for central Europe.*

*Italy has to build a flexible importing and distribution infrastructure, which is a considerable challenge.*

*LNG has to be safe, and be seen to be safe. That's where RINA comes in.*

*We are providing expertise at all levels from pre feasibility through to maintenance planning on all the LNG projects in Italy, bringing together offshore and industry disciplines.*

*You will be welcome on our stand K1-HALL C at the **Offshore Mediterranean Conference** on March 25 -27 to hear how RINA's expertise can help you move towards cleaner energy.*

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## IMPORTING LNG – THE WAYS FORWARD



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Italy needs a flexible and high capacity LNG importing, storage and distribution system. And it needs it quickly and safely. What's the answer?

The answer is the development of new onshore and offshore terminals, as well as the upgrade of existing facilities to handle and store LNG.

These facilities will be privately developed, usually by consortia of major oil companies and utility companies. And each will have different technical problems.

What all of them have in common is a need to cross legal and technical boundaries and bring together technologies and regulators in new ways.

That is already happening at the two major offshore LNG projects which are well underway.

A third project has permission to proceed and there are several more projects for LNG terminals in Italy in the study phase, two with an offshore component.

The two advanced projects are the Adriatic LNG, which is a joint-venture between ExxonMobil, Qatar Petroleum and Edison to build a gravity-based offshore regasification terminal and the Offshore Livorno Terminal (OLT) which is a joint-venture led by E.ON Ruhrgas

and Iride for an offshore floating storage and regasification terminal.

The gravity-based terminal is functionally an island and subject onshore regulation, yet it is technically an offshore project.

The OLT is a floating FSRU conversion project with Italian flag totally classified by RINA.

Both terminals depend on good site selection, detailed modelling and simulation studies, and the ability to understand both the technical and the legal issues which the developments throw up.

Leonardo Brunori, Deputy Director of RINA's Industry Division, says, "These projects are bringing together some proven technologies in new ways, and also breaking new ground.

"But where these projects stand or fall is their ability to prove they are safe and legal. We have an intimate knowledge of Italian legal requirements, we have the maritime expertise, and we can conduct advanced studies offshore on oil and gas.

So it is good to be able to bring all the aspects to bear on these complex projects and help them to be world leaders in getting energy to consumers."

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## TRUST IS THE KEY

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Leonardo Arrighi is Executive Vice President of the Generating and Energy Management Division of Enel.

"I am responsible for the development of new power plants in Italy, and the technical support to all plants abroad," he explains. "As Enel is now Europe's second utility by installed capacity, that keeps me busy. Enel produces and distributes electricity and gas in 22 countries with approximately 83,000 MW of generating capacity."

Power demand is currently down because of the global slowdown, but Enel is looking ahead and increasing competitive capacity in Italy.

"We must have enough capacity to support future needs. And it must be

cost-effective, consistent with being very environmentally conscious. That's a key value for us," explains Leonardo.

Enel produces a lot of its power from combined-cycle gas plants and a big project is to build an LNG regas terminal to supply those stations with imported LNG. "We are tendering now for an 8bn cubic metres annual throughput LNG regas plant at Porto Empedocle, in Sicily," Leonardo explains. "We hope to start construction this year."

At the same time Enel is about to bring on stream a brand new clean coal plant at Torrevaldaliga, near Rome. The 2GW plant will meet very tight environmental limits, less than half those allowed by the EU. "And we are now seeking permits for a similar plant to be built at Porto Tolle," explains Leonardo.

"The big issue with all these developments is not so much the technology as the permitting and authorisation," he explains. "We know a lot about generating power, a lot about clean technology and we can deliver what is needed. Dealing with

local and national authorities is not an easy job; an independent third party may help. That gives them the trust to let us go ahead with the development."

Leonardo explains that the trust and standing of the consultants and verifying bodies is all important. "We work with a wide range of consultants," he says. "We look for the one with the best track record and experience in each specialist area, and also the one which the authorities place most trust in."

RINA has carried out a number of studies for the new projects, especially for the port development issues. "RINA is the expert in that area, and I have worked with them for five years now," says Leonardo. "The port authorities respect their reports and the co-operation with us has been excellent. They understand our needs. I trust them and the authorities trust them too."

[www.enel.com](http://www.enel.com)



## MIELE CHOOSES RINA FOR SOCIAL ACCOUNTABILITY

It covers voluntary requirements to be met by Miele in the workplace, including workers' rights, workplace conditions, and management systems.

Roberto Cavanna, Managing Director of RINA's Certification Division, says, "Miele has set an example to other global manufacturers by seeking independent third party verification and auditing of its management systems and its approach to workers' rights. SA8000 is the global gold standard in the field of social accountability, and Miele has in place a robust programme to meet and exceed all its requirements."

Eduard Sailer, Board Member responsible for technology, Miele, says, "Miele employs over 16,000 staff worldwide, of which around 11,000 are in Germany and over 5,000 in other

countries.

We have always been an independent, self-contained and family-run company with traditional values committed to our workforce, customers and the general public.

We feel that as our business becomes more global it is important to demonstrate publicly, through independent auditing and certification, our commitment to the very highest standards for our global workforce. We chose RINA to do that because of its leading position in this field and its global coverage."

Leading European domestic appliance manufacturer Miele has been certified as meeting the requirements of SA8000, the world's highest social accountability standard.

The certification was issued by RINA, following extensive auditing of Miele's global operations.

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## UN CLIMATE CHANGE ACCREDITATION

RINA has been accredited by the UNFCCC (United Nations Framework Convention on Climate Change), the UN agency dealing with climate change, for the validation, verification and certification of Clean Development Mechanism (CDM) projects.

The Clean Development Mechanism is one of three mechanisms of the Kyoto Protocol which gives flexibility on where emissions are reduced.

A CDM project is one financed by an industrialised country which reduces greenhouse gas emissions in a developing country.

Emission reductions allow credits to be earned for emissions in the developed country and allow developing countries to make use of cleaner technology and move towards sustainable development.

It also enables emissions to be reduced where the cost of implementing the project to reduce them is less.

RINA has been accredited by the UNFCCC as Designated Operational Entity, (DOE) to validate CDM projects in sectors 1 (Energy



industries), 2 (Energy distribution) and 3 (Energy demand) and is undergoing accreditation in sectors 4, 5, 6, 7, 8, 10, 11, 13, 14 and 15 to be able to validate and verify CDM projects.

RINA is the first Italian body to be accredited as DOE and is included in a list of just 19 accreditation bodies worldwide.

CDM projects which RINA will validate have now commenced in Brazil, India and China.

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## RINA AND GRIMALDI TACKLE PORT PROBLEMS



Working with the Naples-based Grimaldi group, RINA has brought together a team of 21 partner companies and 15 end users to co-operate on a major project aimed at eliminating bottlenecks affecting freight cargoes at the ship-shore interface.

The Euro 22.9 million SIS-TEMA project is co-financed by Italy's Ministry for Economic Development and will improve sustainable mobility and the efficiency of Italy's maritime hubs.

The SIS-TEMA project will be completed in three years.

It will focus on the last mile on land and the first mile at sea and will have 23 components intended to speed loading and unloading, bureaucratic processes and service supply.

It is part of a deliberate group strategy to identify areas where innovation can

deliver positive results for clients within a time horizon of three to four years, and to focus on projects where it can use its understanding of clients and their businesses in different areas to create beneficial networks and act as a translator across industrial frontiers.



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## NEWS IN BRIEF

### VENICE CASINO GOES FOR QUALITY

Following two years of thorough work to produce detailed documentation and technical inspections to verify the quality of its management, Venice Casino has obtained ISO 9001 certification from RINA.



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### DEEP WATER OFFSHORE WIND TURBINES

Blue-H Technologies has installed the world's first tension-leg deepwater wind turbine generation system off the south of Italy. RINA helped design the mooring systems and certified the project. It will enable wind farms to be built in places where the depth is too great for conventional fixed towers.



In favour of Blue-H Technologies  
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### TAILOR-MADE FABRIC INNOVATION FOR YACHTS

Italian textile companies and yacht building yards have joined forces to develop innovative new textiles for use in large yacht construction and outfitting. The Strategic Innovation Agenda, called NAVALTEX, is co-ordinated by RINA. It will develop materials with minimum environmental impact but high structural strength and fire resistance for use as furnishings, outfit and for construction of bulkheads and structures.



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## CHINESE YARDS DELIVER RINA BULK SERIES

The 92,500 dwt postpanamax bulk carrier Chiara D'Amato was delivered to Perseveranza di Navigazione S.p.A. from the New Yangzijiang Shipyard, China, in February 2009. It is one of a series of twenty-six similar vessels being built to RINA class at the yard for a consortium of Italian owners.

At the end of 2008 there were 710 ships totalling 10.5 million GT on order to RINA class. New orders during the year were a new record of 300 ships, totalling 4 million GT. On the order book today are 64 bulk carriers of between 18,000 and 176,000 dwt in China alone.

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## GENOA COASTGUARD ACHIEVES EMAS

For the first time a European military body has put in place an Environmental Management System in compliance with the ISO 14001 Standard. Four years after obtaining certification in compliance with the UNI EN ISO 14001 Standard, the Genoa Coastguard has obtained the EMAS mark, validated by RINA, which represents the highest international achievement in the environmental field, a guarantee of coherence and reliability in managing an Environmental Management System.

"This is without doubt a historic event for a harbour master's office and for the Coastguard, and also for the armed forces. It is the result of years of work carried out without any external help and therefore at no additional cost to the state, which could represent a valid example for other State bodies," commented the harbour-master of Genoa, Vice Commandant Ferdinando Lolli.

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