

Our products for conventional and nuclear power plants

For conventional power plants fuelled with coal or gas as well as for nuclear power plants: Vallourec provides all kinds of tubes and pipes.

Seamless tubes and pipes for boiler applications

Waterwall panels, headers, steam piping in a wide range of sizes and grades: carbon steels, alloy and high-alloy steels with an outside diameter from 17.2 to 1,500 mm and a wall thickness from 2 to 250 mm.

Piping components (fittings, headers and other prefabricated products).

Cold-drawn boiler tubes, multi-ripped boiler tubes for water wall panels and stainless steel tubes for superheaters and re-heaters (produced by strategic partners).

Heat Exchanger tubes

Welded tubes in titanium and stainless steel for Heat Exchangers: condensers, low pressure and high pressure FeedWater Heaters, Moisture Separator Steam Reheaters (MSRs).

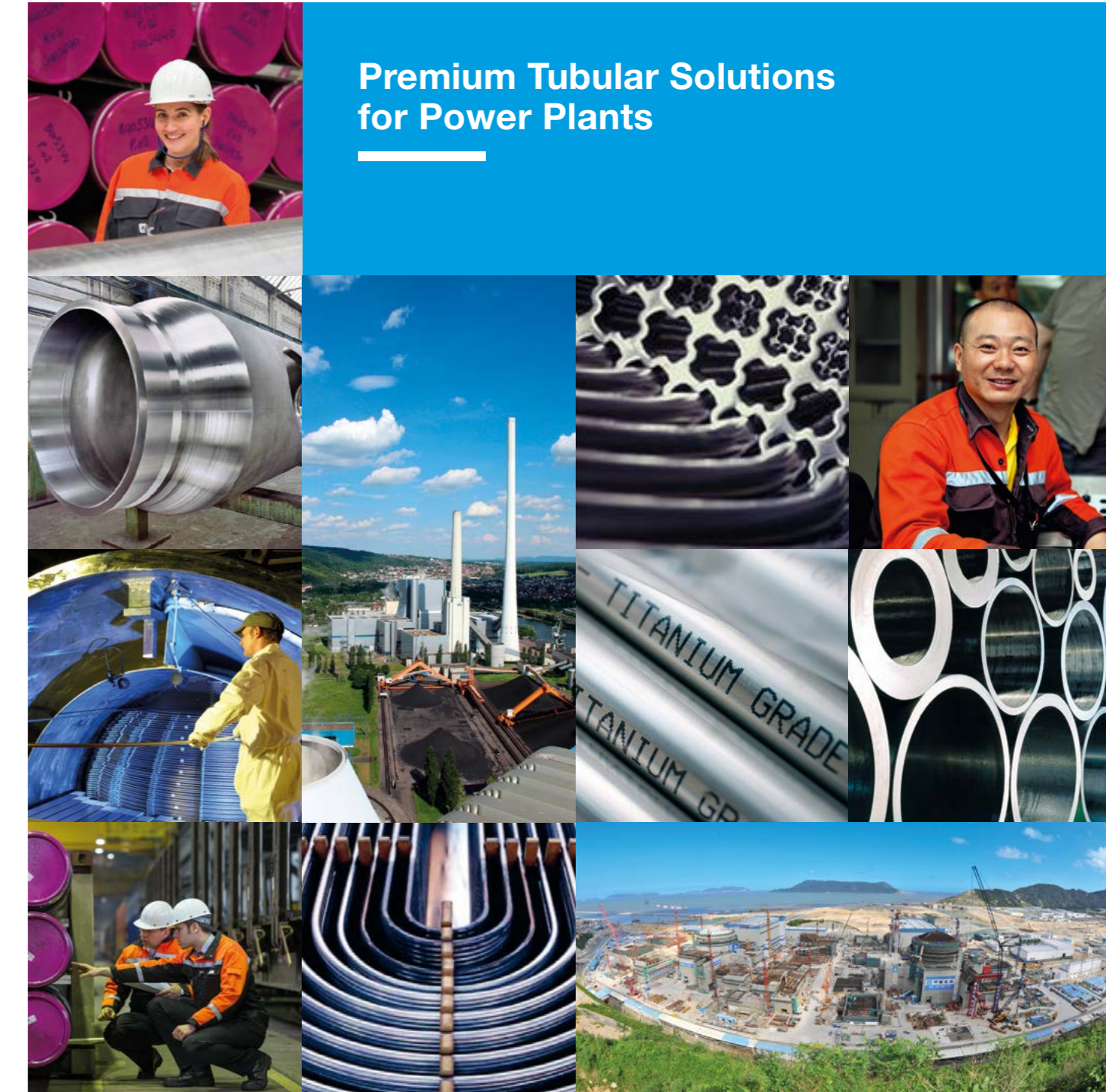
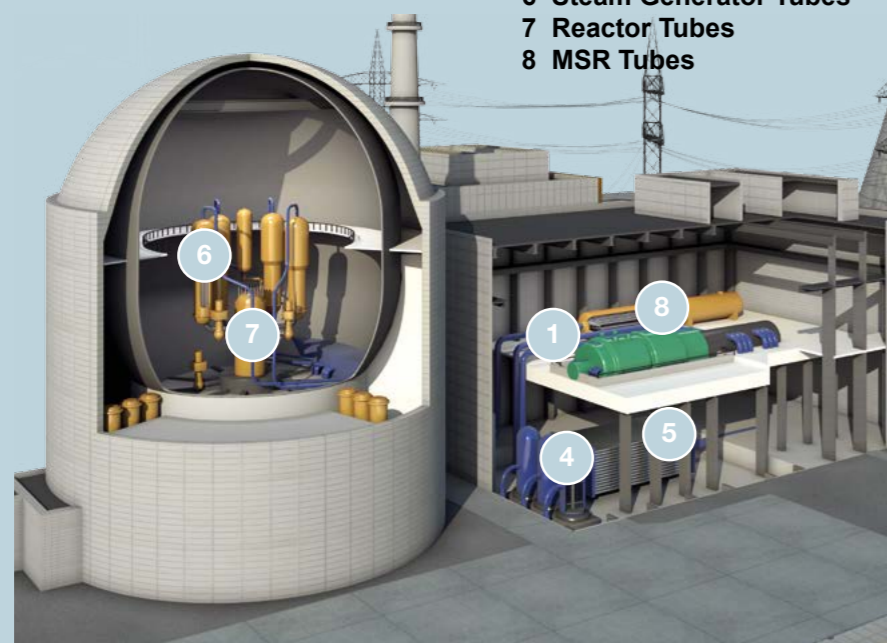
Steam generator tubes

Seamless tubes in stainless steel and nickel alloys for nuclear power plants: steam generator tubes and nuclear environment products.

Conventional Power Plant



Nuclear Power Plant





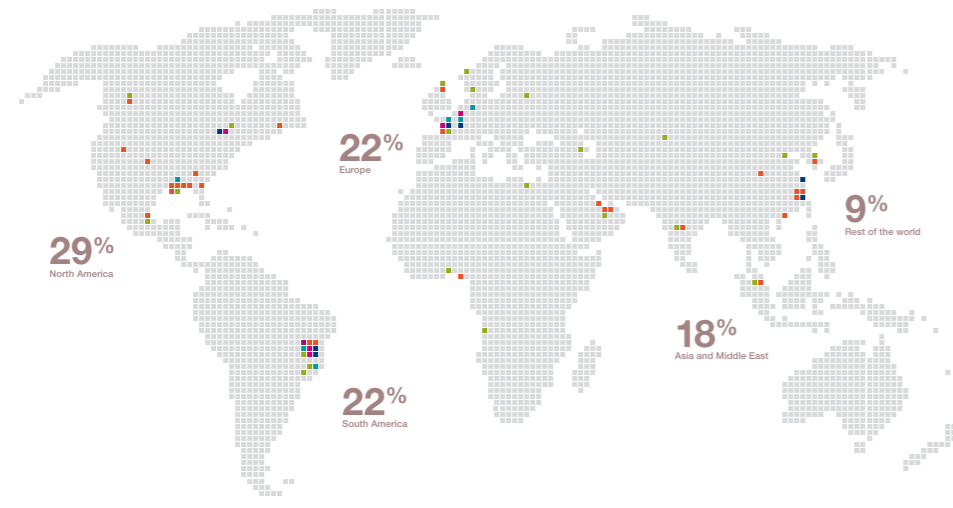
Vallourec – No. 1 on the power generation market

The entire range
 On the power generation market, Vallourec is the world leader and the sole company capable of supplying the entire range of tubes and pipes for the construction of nuclear and conventional power plants.

Since 2012, Vallourec has consolidated all its energy-related activities in the Power Generation Division.

Our ambition
 We want to be your preferred tubular solution provider and long-term partner for safe reliable and high efficiency power plants.

“ Committed to providing the best quality level ... ”



Main Vallourec locations:
 ■ Steel mills ■ Tube mills ■ Finishing units ■ R&D centers ■ Plantation and mine ■ Sales and services offices
 % Sales breakdown by geographical area

From our mills to your operations

We support the safe, reliable and high efficiency production of electrical energy worldwide.

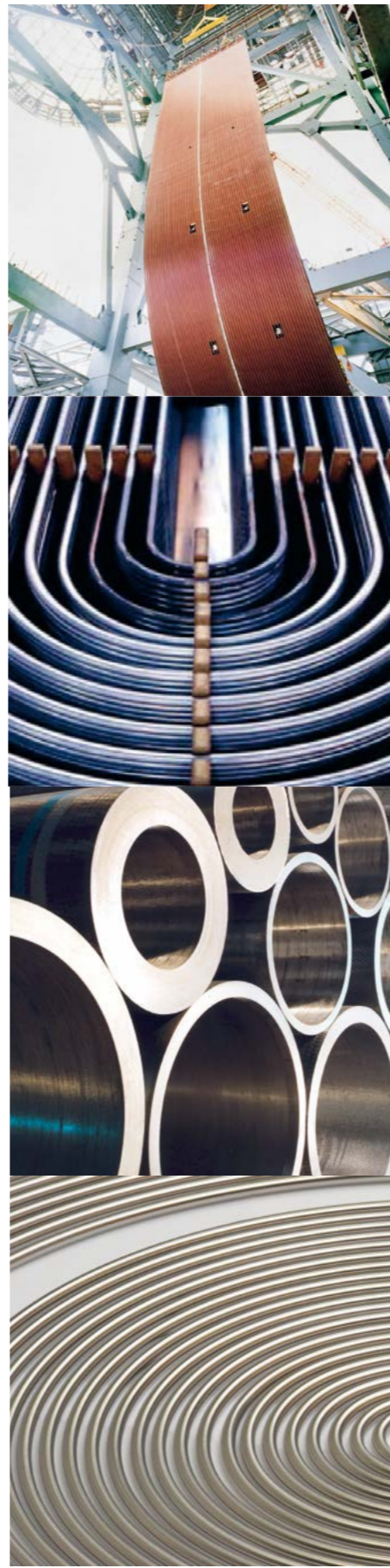
- Our products
- reflect the state of the art
 - are dedicated to reducing the ecological footprint
 - are quality based and contribute to safety in power plants with the aid of total process and production control.

We serve our customers end to end, from the construction of new power plants to the upgrading and maintenance of existing ones.

“ ... for the reliability of your power plant ... ”

All the certificates and approvals you need

Vallourec holds approvals from major national and international official authorities, customers and third-party organizations. These include the certification of all hot rolling mills and plants to ISO9001 and ISO 14001.



More than **500** engineers & technicians in our 6 R & D centers

1,000,000 tons of highly advanced boiler tubes delivered since 2000

Titanium condenser tubes in more than **500** nuclear power plants

In total more than **10,000,000** hours of creep testing

More than **400** nuclear steam generators in service worldwide

More than **160** MSR units delivered

Since 2000 installed capacity of boiler tubes well over **150,000 MW**

90% of our process waste is reused

Our expertise

We supply premium tubular products and innovative services to the stakeholders of the power generation value chain:

- Highly advanced boiler tubes for subcritical to ultra-supercritical power plants
- Pipes for 700°C technology boilers including nickel alloys, such as Alloy 617
- Steam generator tubes with over 60 years corrosion resistance thanks to the largest vacuum furnaces in the world
- Titanium condenser tubes in service since 40 years without corrosion incident

“ ... we set the highest standards in the industry. ”

Innovation by nature

Specializing in the most complex applications, Vallourec relies on its 6 R&D centers around the world and more than 500 engineers and technicians, experts in metallurgy, mechanical behavior, destructive and non-destructive testing, corrosion and steam oxidation, surface treatment, product and process simulations, and heat transfer technology.

Here are some examples of current projects showing how we help our customers to overcome major technological challenges by developing tubular solutions that improve the efficiency of power plants and extend their lifetime:

- New grades for high efficiency power plants
- Tubes with enhanced surfaces to improve heat exchange performance
- Cladding tubes for fourth-generation nuclear fast breeder reactors



Vallourec relies on experts in

- › Metallurgy
- › Mechanical behavior
- › Destructive and non-destructive testing
- › Corrosion and steam oxidation
- › Surface treatment
- › Products and process simulation
- › Heat transfer technology

