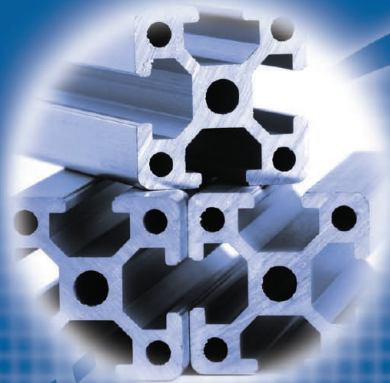


innoval
technology

Support for Strategic Investments



value through
innovation

Independent Technical Support for Downstream Aluminium Investment

Innoval Technology is an independent company. We provide high quality consultancy and technical support to the manufacturers and end-users of aluminium, and other selected engineering materials, across a broad range of industry sectors.

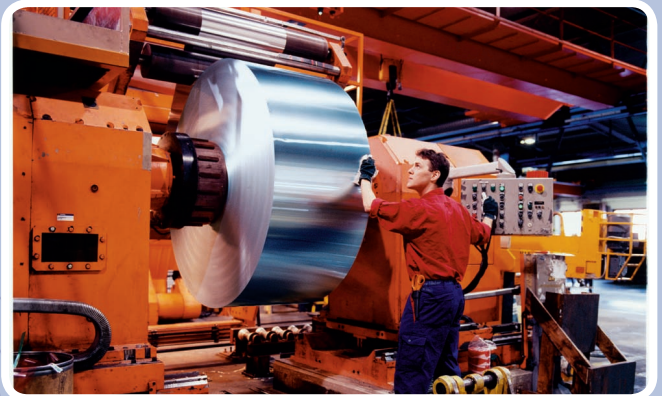
Our clients are rolling, extrusion, forging and finishing companies, and their customers, throughout the world, as well as investors in those companies.

We have the industry experience and technical knowledge to perform a variety of services in support of strategic investments:

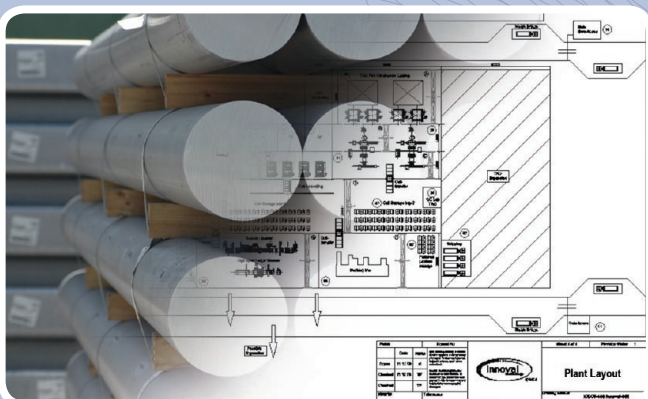


Technical Due Diligence

Innoval Technology provides expert evaluation of downstream assets in a variety of sectors. We can tell you if the equipment you're about to invest in is capable of supplying the target markets, both in terms of production capacity and product quality. We'll also look at safety and environmental aspects, as well as assessing the capability of the staff and reviewing the process documentation. Our report will be an independent, honest and technically accurate account of the current state of the operation and of its future potential.



Pre-feasibility Studies and Plant Design



Following a market study, we can help you define the best products to manufacture. With our detailed knowledge of process routes, we can then specify the equipment you'll need to produce your products to world-class standards. And from our experience of working in plants all over the world, we can design a plant layout which maximises efficiency. We also feed all financial information (including an estimation of the civil engineering costs) into our cost model to determine the project's NPV and IRR and so assess its economic viability.

Why involve Innoval?

Any investment project focusing on downstream aluminium production needs to involve a technical team with world-class industry expertise. For this, Innoval Technology is the logical choice. Working with us will give you the peace of mind that comes from involving a team of people who know and work in the target industry.

We don't just understand the aluminium industry, we are active within it.

Right now, engineers from Innoval Technology will be in rolling mills, extrusion plants, can plants, foil mills and a host of others, helping those companies be the best at what they do.

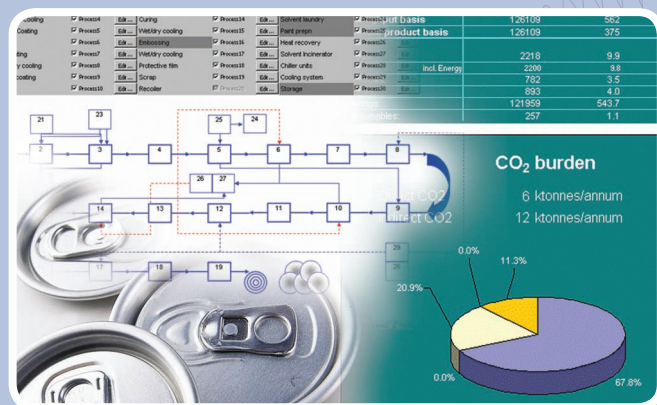
Our engineers have an abundance of product and process experience. Most have been supporting the industry for over 20 years, and many have held Senior Management positions in global aluminium companies.

We're independent and, because of the work we do, we have an industry wide perspective. Furthermore, because there are 25 of us dedicated to aluminium, we can cover every aspect of product manufacture; from casting through to final product shipping. What's more, we'll employ multidisciplinary teams on your project to make sure every angle is covered.

Nowhere else in the world will you find such a diverse range of world-class aluminium expertise together in one independent company.

If you have an aluminium project, can you afford NOT to involve us?

Cost Modelling

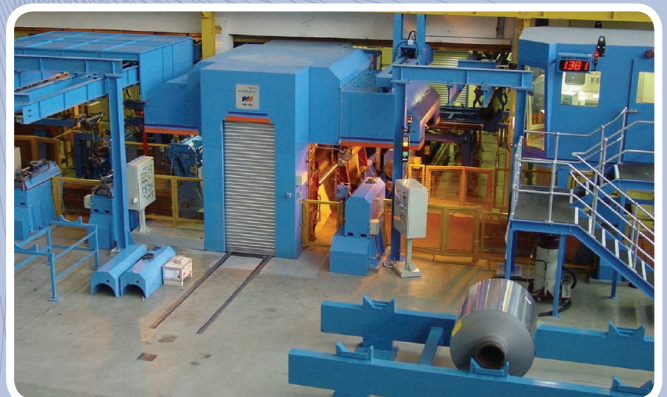


Our financial models have been developed to incorporate our experience of the global aluminium industry. To assess new plants or those at the design phase, we use realistic values for production recoveries, labour requirements, consumption of energy (and other utilities) and consumables to calculate the total operating costs. Up-to-date equipment prices are incorporated for an accurate estimation of capital costs. We calculate all key financial indicators together with sensitivity analyses for any scenario you want to consider.

Investment/Upgrade Support

Should you invest in new equipment or upgrade existing equipment?

We can help you answer this question and offer guidance on how to obtain the most value from your investment. Whatever you decide, we'll tell you what you need to buy to meet your goals. If you decide to upgrade, we'll help you maximise returns on your investment and evaluate the possibility of serving new markets with your assets.





Who are Innoval?

Innoval Technology is an *independent* materials technology provider specialising in aluminium and other light metals. We provide technical expertise, contract research, analytical and testing services.

The company consists of 25 people and is based in Banbury in the United Kingdom.

Innoval's range of services

- Process Improvement
- Materials Development
- Product & Process Training
- Best Practice Tools

Product expertise:

- Aerospace
- Automotive
- Building Products
- Canning
- Foil Packaging
- General Engineering
- Heat Exchangers
- Lithographic Sheet
- Marine

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Photographs courtesy of VAI, Novelis, Sapa, Hydro