TRACTEBEL

Small Modula Reactors

IGie

Building on 60+ years of nuclear experience, Tractebel leads innovation in Small Modular Reactors (SMRs)

Tractebel has been the architect engineer and responsible designer for the Belgian nuclear fleet since 1960's. Our highly skilled and experienced experts can adapt the current engineering practices to the new paradigm imposed by SMRs.

SMRs are simple, small and standardized solutions. They can renew investors' appetite for nuclear projects, improve certainty of delivery on time and budget, and facilitate the introduction of advanced technologies.

SMRs enable and extend the uses of nuclear technologies to innovative industrial applications such as energy storage capabilities, Combined Heat and Power for the heavy industry and hydrogen & eFuels production.

Our development programme

- Advance R&D and demonstrate Passive
 Safety performances
- Recommend and defend adaptations to the Licensing approach backed by inherent safety features
- Drive localization strategy for the supply chain rooted in mastery of American and European **Codes & Standards**
- Address and unlock untapped opportunities in **Industrial Applications** leveraging our 360° understanding of tomorrow's energy landscape

Our added value

- An **international footprint** to allow a continuity of experts, processes and tools from one project to the others
- A **team** of meticulous pioneers eager to tailor solutions to **First-of-a-Kind** projects
- A **network** of world-class experts to de-risk the most ambitious and complex projects

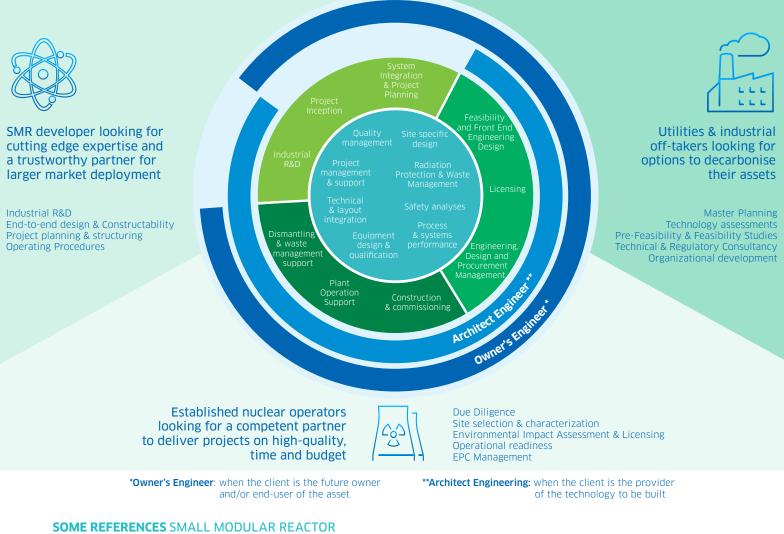
Clients benefits

A **partner** that anticipates needs and addresses issues upfront in particular for **unexperienced** market actors

Tailoring our role to your needs and project maturity



WHO CAN BENEFIT FROM OUR EXPERTISE?



Coal plant retrofit

Mission in Poland

Objective

Assess the relevance of retrofitting two coal fired combined power and heat plants (CHPs) with SMRs

Solutions

Multi-expertise evaluation of brownfield opportunities and retrofit strategies to ensure service continuity.

Results

Sites and assets characterization regarding suitability to host SMRs and comparative assessment of deployment scenarii accounting for technology options.

CHP Chemical

Mission in US & EU

Objective

Optioneering study to decarbonize the production of chemicals at two large chemical plants in US and Europe given brownfield constraints.

Solutions

Use of SMR to provide combined heat and power (CHPs) services to existing asset with technology options matching assets operational evolution and surrounding infrastructures.

Results

System integration of a reduced list of SMR options meeting operating constraints and siting requirements while accounting for business imperatives from local geopolitics, regulation and supply chain.

Utility program Mission in Estonia

Objective

Suitability evaluation of SMR as a decarbonised power source beyond 2030 accounting for country' status as embarking in nuclear energy.

Solutions

Technico-economic assessment of best suited SMR technologies considering technical merit, industrial deliverability and market appetite as well as survey of potential sites.

Results

Reduced list of technologies and sites suitable for Estonia's SMR ambition used as a basis for the next project development phases.