



Case Study

Supply Chain Assessment

THE CHALLENGE

Our client in the fusion energy sector has developed a unique system designed for faster and more cost-effective deployment compared to traditional designs. Their upcoming facility serves as the pivotal demonstrator for this groundbreaking technology.

To expedite deployment, Frazer-Nash Consultancy conducted a thorough assessment of the supply chain landscape. Our focus was on identifying and collaborating with suitable suppliers, along with gaining a comprehensive understanding of lead times for critical components. This effort is particularly critical, considering the increased volume of components required in comparison to previous projects. These measures are instrumental in enabling effective planning and mitigating risks for the successful development of the next-generation facility.

OUR SOLUTION

The facility was represented in a Product Breakdown Structure (PBS), outlining its key systems and components. This structure was instrumental in mapping these elements with the current supply chain landscape for essential components.

Our approach to supplier identification involved a combination of open-source research and consultations with Frazer-Nash fusion subject matter experts. This process resulted in a comprehensive supplier list, highlighting candidates with relevant experience for successful delivery. Whenever possible, we identified multiple suppliers, providing our client with alternatives in the event of capacity constraints. Following the initial supply chain assessment, Frazer-Nash leveraged industry experience to provide clear direction on how to de-risk the supply chain in the construction of this next-generation facility.

BENEFITS

We have a strong presence within multiple peer organizations, allowing us to tap into a wealth of domain knowledge and experience. This unique vantage point enables us to offer our clients a distinctive perspective on their supply chain requirements, tailored to their specific goals.

We utilize this valuable insight to recommend a path forward for our clients, helping them advance and mature their supply chain strategies. Our recommendations also include the establishment of strategic partnerships, a crucial step in preparing for the construction of the next-generation facility. By harnessing our domain knowledge and experience, we empower our clients with the tools and strategies needed for success in their endeavours.

Business need

Supply chain assessment for a unique facility

Why Frazer-Nash

Systems engineering approach to manufacturing challenges with access to industry via AMTech.

Date project completed

May 2023