



CHEMICAL ENGINEERING SERVICES

OUR KEY COMPETENCIES

- Chemical Engineering and System Design
- Heat and Mass Balance Modeling
- Fluid Dynamics Modeling
- Catalyst and Adsorbents Characterization, Development and Testing
- Combustion Technology Support
- Contaminant Analysis
- Rapid Prototyping

CHEMICAL ENGINEERING SERVICES

HyGear offers chemical engineering services to assist you in developing new processes or designing new plants. The services are dedicated to your requirements and cover the entire range from physical and chemical modeling up to system design and component testing and verification. We offer an extensive knowledge portfolio in which all necessary chemical and mechanical engineering skills are well represented. Our customers are innovators in the sustainable energy market as well as the oil, gas and chemical industries.

DESIGNED TO FIT

When it comes to dedicated engineering services, the customer's preference lead the way. Services are provided to the extent needed and requested by the customer.

HyGear is devoted to work closely with its customers during all project phases. This close cooperation ensures you that the provided services will be complementary. All fundamental knowledge, trade secrets and intellectual property to each process remain with the customer. Subject to clients wishes, our services can remain confidential.

SKILLS AND EXPERTISE

Working with HyGear means benefiting from our in-house high tech infrastructure. When necessary, our expert groups in Pilot and Demonstration Plants and/or Testing Services can be made available to extend our Engineering Services further to bring new technologies into practice. With a track record that spans a broad range of projects, and a fast growing personnel base, we've become one of the most professional partners in the industry, covering the whole development cycle, from initial idea to implementation. Beyond that, we offer expert teams in maintenance and services with an availability of 24 hours a day, 7 days a week.

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ENGINEERING FOR SUSTAINABLE GROWTH

With the growing global need for energy efficiency and sustainability, industries are improving chemical processes, optimizing supply chains and searching for new and sustainable fuels. HyGear is a Dutch company with unique competencies in miniaturization of chemical processes and gas streams.

We are devoted to delivering systems that are ready-to-use in renewable energy applications or chemical processes. HyGear develops, builds and tests compact, standardized hydrogen generators, as well as biogas upgrading systems, gas to liquid solutions and fuel cells.

TANGIBLE BENEFITS

Our expertise also spans a broad range of chemical engineering services. From dedicated assistance in process development up to designing and building turnkey pilot and demonstration plants for customers in the oil, gas and chemical industries.

HyGear's range of systems and services delivers its customers tangible benefits in costs, security and practical usability. We offer industries the opportunity to reduce their time to market while at the same time helping them to take a well-tested step to full-scale production.



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