

# GREENTECH SOLUTIONS

unleash a green tomorrow.

# GREENTECH SOLUTIONS

If you are working on an idea that could make an industrial process more sustainable, then you have something in common with GreenTech Solutions by BDI! We provide service for innovators and entrepreneurs looking to develop their own ideas for sustainable processes.

If you have a project aimed at reducing harmful emissions or resource and energy consumption, we're here to help you make it reality. Turning green ideas into robust, viable, industrial-scale processes is what we do.

## DO YOU WANT TO SCALE-UP AND IMPLEMENT NEW CHEMICAL PROCESSES?

Do you need to test a project's technical feasibility?

Are you wondering how to develop a pilot plant?

Do you need experts with problem solving skills?

UNLEASH A GREEN TOMORROW.

# PROCESS DEVELOPMENT

for green ideas

The great challenge of our time is how to make the totality of our human activities less destructive to the natural environment we live in. The way we use resources in industrialized societies has collided hard with the limits of what the planet can support.

BDI-BioEnergy International took on the challenge of making renewable fuel an everyday reality. For over 25 years we have been pioneers in developing industrial-scale processes to produce biodiesel – with a focus on using waste-based oils and fats.

» *Going that way, with expertise in engineering green chemical processes, we implemented numerous customized solutions.*

CIRCULAR  
ECONOMY  
IS PART OF  
OUR DNA

**Converting worthless or problematic substances into valuable products**

**Searching for resources and energy efficiency wherever we can**

**Combining these challenges into viable industrial-scale processes**

# TECHNOLOGY CENTER

your sparring partner for chemical scale-up

## TECHNICAL AND ECONOMIC EVALUATION

We know what it takes to make a process work at industrial scale. Aspects that are unimportant at lab scale become relevant when you are handling thousands of liters per hour.

Our experts have developed many projects from idea to market. We help to conduct a thorough assessment of whether your proposal is technically feasible and what its economic prospects are.

- Assess technical feasibility
- Estimate economic process viability
- Identify issues to be solved in scale-up
- Estimate reliable investment costs

## SCALE-UP AND ENGINEERING

BDI offers the full engineering capability needed to design complete industrial-scale plants for liquid chemical processes. We can work with your finalized specifications, or we can get to know your process by testing it in our in-house facilities. Entrusting us with the planning, organization and implementation of your project can save you a lot of effort.

- Full engineering capability
- Accurate cost estimates thanks to our network of suppliers
- Reliable, independent advice
- Authority engineering based on international project management

## RESEARCH AND PROCESS DEVELOPMENT

You may have a reaction that works well under research lab conditions. What is the next step towards an industrial process?

Our technical center might interest you. In our pilot-scale facilities, we can test most basic liquid chemical processes and look at individual reactions and process steps at pilot scale.

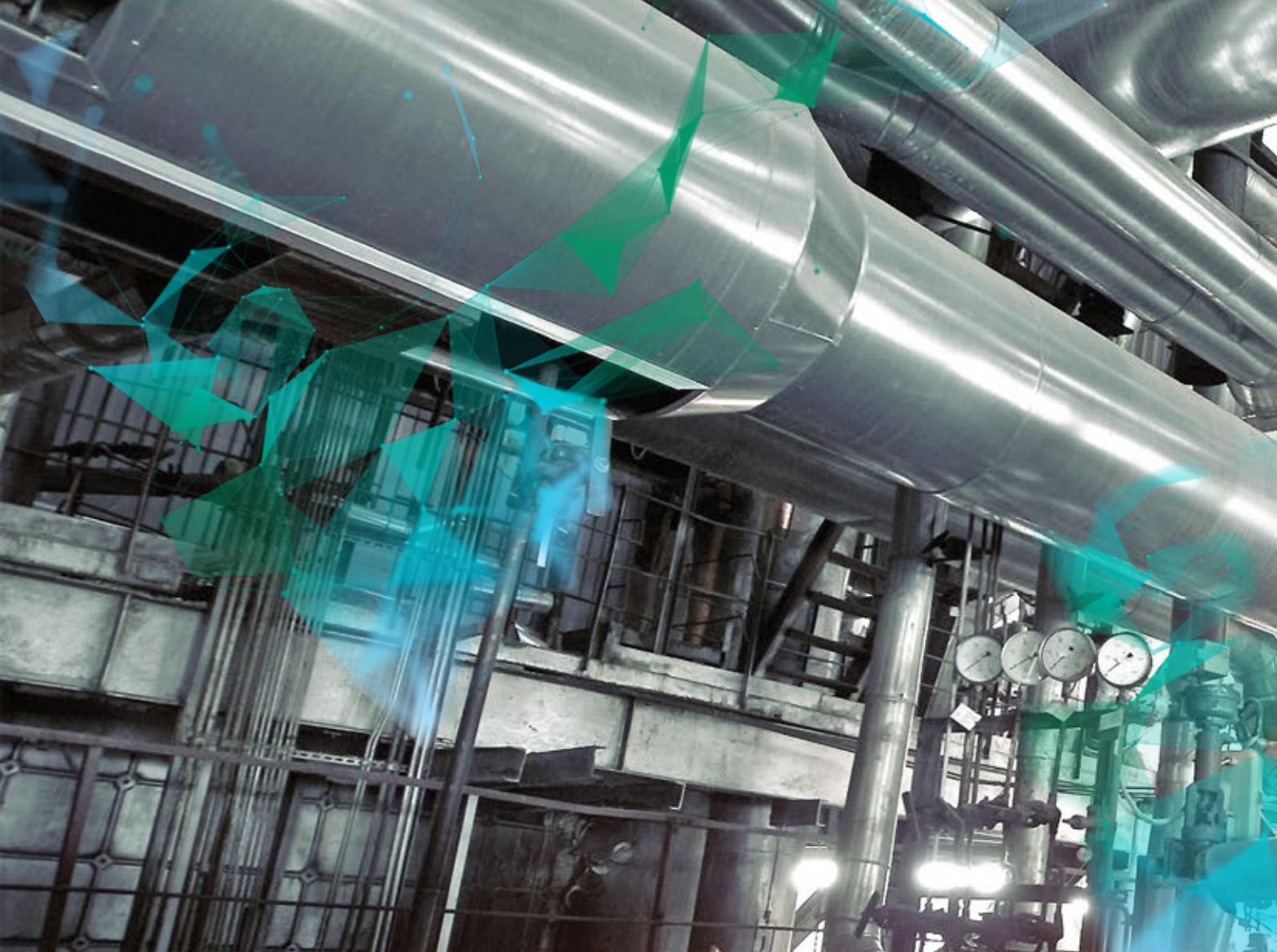
We are your experienced partner for exploring process limits and assembling multiple steps into a coherent process.

- Continuous high-pressure reactors
- 200-L glass batch reactors
- 2-stage rectification
- Short-path distillation

## PLANT CONSTRUCTION AND COMMISSIONING

Seeking a contractor for the construction of your plant? We take responsibility for engineering, purchase and construction (EPC-contractor). After commissioning and approval we offer customer service to ensure smooth operation of the plant.

- Construction management
- Commissioning tests
- Customer Service
- Maintenance & spare parts management



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