

Tap into our expertise.

Here at Linde, we have vast experience in the production of adsorption plants. Building on our in-depth technological expertise and long-standing experience, our customer and site services for adsorption and membrane plants is the ideal way to keep your facilities running smoothly and efficiently.

Our all-inclusive customer and site service package includes:

- Spare parts management
- Operational support
- Revamps & modernisations
- Plant relocations
- Consulting & training
- Maintenance & repairs

Find out more.



Visit linde-engineering.com

Find out how our engineering and operational expertise translates into time and efficiency gains for your company.

Get in touch with our adsorption and membrane plants team and put our expertise to work for you:

Phone +49 89 7445-2380

Inquiry: www.linde-engineering.com/contact



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Making our world more productive



Keeping your plant in peak performance

Value-adding adsorption and membrane plant services

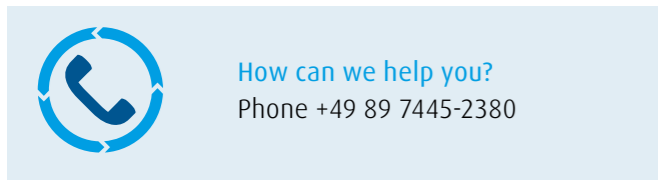


At your service.

Linde's Engineering Division is a leading player in the international plant engineering business. Across the globe, we have delivered more than 4,000 plants and cover every step in the design, project management and construction of turnkey industrial facilities. Our proven process and technology know-how plays an indispensable role in the success of our customers across multiple industries – from crude oil, natural gas extraction and refining to chemical and metal processing.

From the desert to the Arctic, from small- to world-scale, from standardised to customised builds, our specialists develop plant solutions that operate reliably and cost-effectively under all conditions.

Discover how we can contribute to your success at www.linde-engineering.com.



Enjoy smooth, reliable operations – 24 x 7.

Minimising your costs

Our broad range of services is dedicated to lowering your total cost of ownership – starting by selecting the most suitable, competitive spare parts and going on to maximise your efficiency potential overall.

Spare parts management

Boost your business

- Clear identification of the best spare part – made possible through our access to the original documents
- Specification of adequate alternatives if desired
- Customised solutions that are precisely tailored to your requirements
- Smooth interoperability with other system components
- Individual spare part sets for preventive maintenance



Our service offering:

Spare parts and components

- Specification of applicable alternatives in case that original spare parts are no longer available
- Selection of best-fit spare parts
- Retrofitting of plant components
- Adsorbent, optimised for Linde adsorption and membrane plants
- Cost-efficient high-performance membrane – HISELECT™ powered by Evonik



Operational support

Rely on our support team

- Direct access to our global expertise
- Support in solving your concrete problems
- Identification of improvement potential
- Personal support from excellently trained and experienced service personnel

Our service offering

- Support for preparation, commissioning and start-up
- Support for sudden operational problems
- Assessment and optimisation of plant performance
- Remote services

Revamps & modernisations

Improve your productivity

- Safe and reliable execution by an experienced technology and implementation partner
- Solution optimised to your specific operational requirements
- High plant availability and increased productivity
- Operational improvements

Our service offering:

Plant modifications and revamps

All work required to modify existing plants, e.g.:

- Modernisation of the process control system
- Capacity increases / de-bottlenecking
- Optimisation of reliability
- Alignment with legal requirements
- Lifetime extensions
- Changes in feedstock and products
- Feasibility studies

Plant relocations

Leverage existing asset investments

All the support you need to relocate existing plants and adapt to a new location, e.g.:

- Relocation concept to minimise downtime and costs
- Feasibility study exploring revamp potential during relocation
- Support in preparing instructions for disassembly and re-assembly
- Supervision during re-assembly and re-commissioning



Consulting & training

Empower your staff

- Know-how refresh with latest insights
- Best practice sharing
- Access to the latest standards and findings from our own technology development work

Our service offering

- Training for safety and compliance with directives, standards and guidelines
- Operational support (e.g. start-up and shutdown)
- Spare parts management
- On site or at Linde Engineering facilities



Maintenance & repairs

Maximise your uptime

- Access to the wealth of operational experience we have gained with various customers
- Reduced risk of sudden equipment failure and unscheduled downtime
- Professional investigation of breakdowns and best-practice repair or modification recommendations

Our service offering

- Inventory recommendations for regular maintenance and strategic spares
- Performance and reliability optimisation suggestions
- Liaison between service team and OEM service technicians
- Supervision of maintenance work and re-commissioning