Vision
Provide the next generation of clean, efficient and cost-effective methanol fuel cell systems

Core strategy
Horizontal supplier of technology, systems and solutions for commercial service providers and operators within the telecom business and stationary solutions.
Sales channels are primarily via local partners
Primary geographic presence is Asia and Europe. Currently looking into market entry to Africa and North America

Mission
Be the leading supplier of methanol fuel cells in telecom, utilities and industry
Facts about SerEnergy

- **FOUNDED IN**: 2006
- **70 EMPLOYEES**
- **LOCATIONS IN**: DENMARK, INDIA, PHILIPPINES
- **OWNED BY**: fischer group
- **METHANOL-BASED FUEL CELLS**
- **THOUSANDS OF UNITS DEPLOYED GLOBALLY**
Part of the fischer group family
# Solutions

<table>
<thead>
<tr>
<th>MODULES</th>
<th>CABINETS</th>
<th>PLATFORMS</th>
<th>OTHER SERVICES</th>
<th>BUSINESS SEGMENTS</th>
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<tbody>
<tr>
<td><img src="image1" alt="H3 5000 - 48" /></td>
<td><img src="image2" alt="INDOOR" /></td>
<td><img src="image4" alt="SERVICE MANAGEMENT SYSTEM" /></td>
<td><img src="image6" alt="SERENERGY ACADEMY" /></td>
<td><img src="image8" alt="TELECOM" /></td>
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<td><img src="image3" alt="H3 5000 - HV" /></td>
<td><img src="image5" alt="OUTDOOR" /></td>
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<td><img src="image11" alt="DEPLOYABLE" /></td>
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| • 5kW module up to 100kW and more  
• DC output from 48, 375 and 560VDC  
• Remote monitoring platform and alarms via IP or modem  
• Operation temperatures from -20°C and up to 50°C  
• Perfect for battery charging for backup applications | • 200 l fuel tank  
• Comes in split cabinet and modular cabinet  
• Holds from 1 to 3 modules  
• Easy refilling  
• Can be adapted to indoor installations  
• Fully integrated unit with tank  
• Prepared for ducting  
• Up to 15kW power | • Fleet  
• Service  
• Support  
• Alert handling  
• Preventive maintenance  
• System Status  
• Early failure identification  
• Configuration of system  
• Software update  
• Live view of system with remote control | • Service/Repair  
• Support  
• Fleet management  
• Evaluation  
• Maintenance, Spare parts & fuel |  |

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**Telecom**

**Industrial**

**Utility**
Sustainable Process

- Sustainable Energy Sources
- Fuel Generator and Distribute
- Synthesis
- Energy Generator
SerEnergy Support Infrastructure/ Set-Up

SerEnergy HQ Denmark
- SerEnergy Academy – Denmark and Philippines
- Demonstration, Training and Education
- Client Portal
- Global Support

Local Partner
- Installation and Service
- SerEnergy Academy and/ or Service Hub
- Maintenance and Warranty

Fuel Supply
- SerEnergy Supply and Fuel Cube set-up
- Local supply and blending partner through Methanol Institutes network

Remote Monitoring
- Site and Performance Optimization

End-User
Any Questions
Appendix
The fischer group

- Founded in 1969
- 2,800 employees
- Leading supplier of longitudinally welded stainless steel tubes and components
- Committed to environmentally friendly energy solutions
- HQ in Germany
- 20 subsidiaries
- € 750 million turnover
Business Process

- INQUIRY
  - SPECIFICATION
  - NEGOTIATION
  - QUOTATION
- ORDER
  - INSTALLATION
- EVALUATION
  - FIELD TEST
  - CUSTOMER ROLL-OUT
- SERVICE AND SUPPORT

- INITIAL DIALOGUES AND PO
- TRAINING, INSTALLATION, TESTS AND SYSTEM FULLY DEPLOYED
- OPERATIONS, SERVICE, MAINTENANCE
Clean Energy Conversion

- SerEnergy fuel cell converts the chemical energy of methanol into electric energy.
- Its efficiency is higher than with diesel generators and the local CO$_2$ pollution is lower.
- The hydrogen required for the fuel cell reaction is produced with the integrated methanol reformer.
- The high safety requirements as in the handling with hydrogen are not necessary.
- Regeneratively produced "green methanol" from electrolysis and methanol synthesis serves as energy storage and, as e-fuel, is an important component in the energy turnaround.

Green methanol is globally available
Thank you for your attention!

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