Energy transition in asset-intensive and manufacturing industries in Europe

How do leaders in engineering and manufacturing companies shape energy transition?

We asked 200 leaders in companies with engineering & manufacturing operations across Europe 10 questions to better understand their concerns, challenges, investment decisions and the opportunities they see ahead on energy transition.

Top affected departments

This fiscal year: Focus of departmental investments

<table>
<thead>
<tr>
<th>Department</th>
<th>Focus of Investments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information technology</td>
<td>64%</td>
</tr>
<tr>
<td>All departments</td>
<td>&gt;50%</td>
</tr>
<tr>
<td>Research and development</td>
<td>64%</td>
</tr>
<tr>
<td>Operations</td>
<td>56%</td>
</tr>
</tbody>
</table>

Resiliency and reduction in CO₂ emissions are not mutually exclusive

Top 3 concerns this winter

- Electric reliability: 43%
- Carbon price: 41%
- Startup of new gas sources: 39%

Focus on reducing CO₂ emissions

- Plan to decarbonize internal operations by 2030 or sooner: 92%
- Plan to decarbonize supply chain and CO₂ neutrality in the next 10 years: 82%

Lacking the fuel for transformation

Biggest challenges in managing decarbonization aside from financial limitations:

- Available public energy infrastructure
- Qualified personnel

High hopes that artificial intelligence will be part of the solution

Top 3 technologies to help achieve energy transition in leadership, multiple selections possible

- Artificial intelligence: 46%
- Process digitization: 36%

To get more detailed results and learn what this means for you from our experts, please reach out to:

Götz Erhardt
Senior Managing Director
Industry X Lead – Europe
Email: goetz.erhardt@accenture.com

Dr. Christian Hille
Managing Director
Industry X Utilities & Energy Transition Lead – Europe
Email: christian.hille@accenture.com

Björn Bernhardt
Strategy Managing Director
Energy Strategy & Consulting Practice Lead – DACH
Email: bjoern.bernhardt@accenture.com

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