

Advanced Semiconductor Engineering Inc

SEM Semiconductors & Semiconductor Equipment

Member of DJSI World, DJSI Emerging Markets

Company Information

Country	Taiwan
Market cap (USD million)*	8,232

*Source: S&P Global BMI, 31 July 2017

Company Description

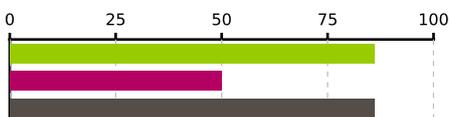
The Advanced Semiconductor Engineering Group (ASE) is the world's largest provider of independent semiconductor manufacturing services in assembly and testing. The group develops and offers complete turnkey solutions covering integrated circuit packaging, design and production of interconnect materials, front-end engineering test, wafer probing and final testing, as well as electronic manufacturing services. As a global leader, ASE provides a complete scope of services for the semiconductor market, driven by superior technologies, breakthrough innovations, and advanced development programs. The company is geared towards meeting the industry's ever growing need for faster, smaller and better performing chips. Headquartered in Kaohsiung, Taiwan, the company currently employs 67,000 employees in manufacturing plants across Asia and offices in North America and Europe.

Industry Drivers

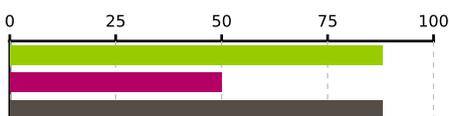
Continuous innovation is crucial for this industry - not only in order to keep pace with Moore's Law, but also to respond to the rise of artificial intelligence, which requires novel chip designs. To ensure their long-term capacity to innovate, semiconductor companies must properly manage R&D processes and attract and retain a skilled workforce. Shrinkage (increasing transistors and processing power without increasing chip size), migration to new materials, and the introduction of more efficient production processes are the dominant trends. Other challenges include energy-efficient production processes and low energy consumption chips and processors. Quality, performance, and reliability must be monitored throughout the entire value chain. The semiconductor industry must also address the environmental impacts of its own operations by reducing the use of chemicals and hazardous substances, generating less waste, enhancing the energy efficiency of ultra-clean spaces, and reducing consumption of ultra-pure water. Considering the long lead time of capacity extensions, the semiconductor industry's extreme cyclical nature is forcing companies to pay close attention to strategic planning and business cycle management.

Sustainability Scores

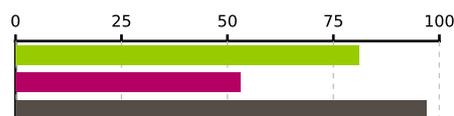
Total Scores



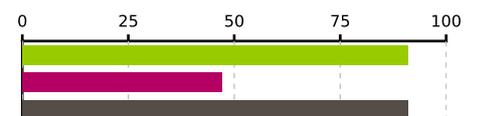
Economic Dimension



Environmental Dimension



Social Dimension

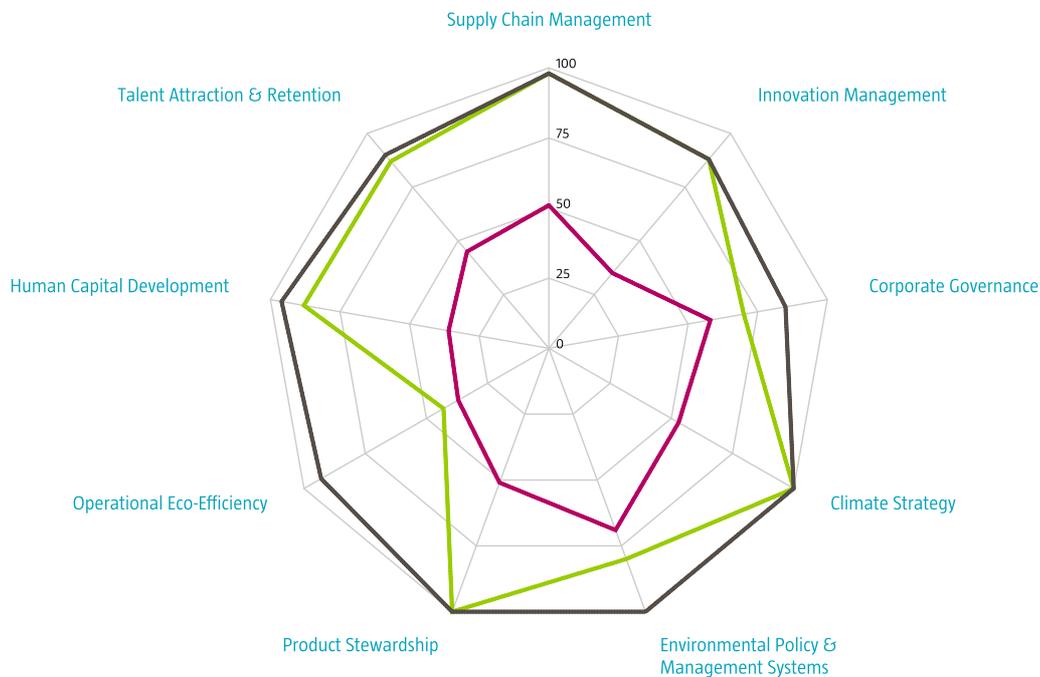


■ Industry best score ■ Industry average score ■ Advanced Semiconductor Engineering Inc

Sustainability Performance

Advanced Semiconductor Engineering Group (ASE) has established itself as the leader in the Semiconductors & Semiconductor Equipment sector. The company has successfully capitalized on the sustainability opportunities in the sector through an effective product stewardship strategy which deeply integrates environmental criteria across the company's processes including procurement, product development and end of life management. Furthermore, ASE has established a comprehensive set of policies and mechanisms to ensure an adequate degree of control over its entire supply chain. It is worth noting that 100% of the suppliers considered by ASE as carrying 'high sustainability risk' have been assessed and corrective plans have been implemented, leading to general improvement of the suppliers' sustainability performance. ASE's incorporation of a wide range of material ESG criteria in the supplier selection process, such as Conflict Minerals Reporting requirements, shows that ESG factors are already well integrated for new and existing suppliers.

Company Performance for Selected Criteria



■ Industry best score ■ Industry average score ■ Advanced Semiconductor Engineering Inc

For more information on assessment criteria, please visit www.robecosam.com/csa

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