

Member of DJSI World, DJSI Emerging Markets

Company Information

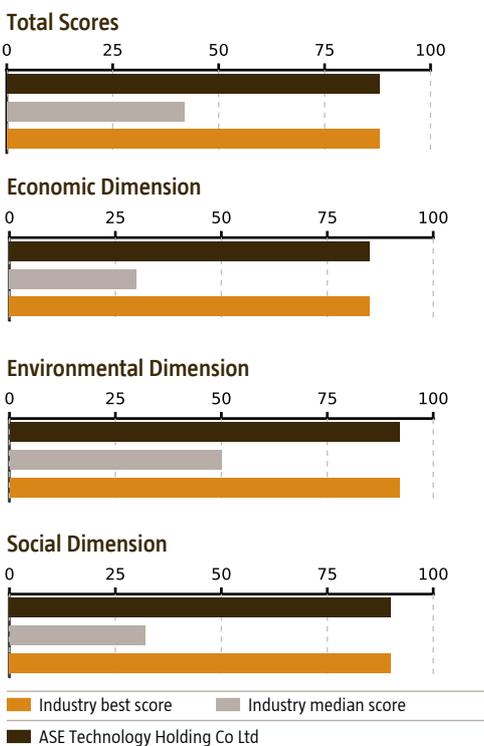
Country: Taiwan

Index market cap\*: 8,958

\*USD millions

Source: S&P Global BMI, 31 July 2018

2018 Assessment Results



Industry Overview	Maximum Score	Median Score
Total	88	42
Economic Dimension	85	30
Environmental Dimension	92	50
Social Dimension	90	32

DJSI World	Maximum Score	Median Score
Total	88	80
Economic Dimension	85	76
Environmental Dimension	92	86
Social Dimension	90	82

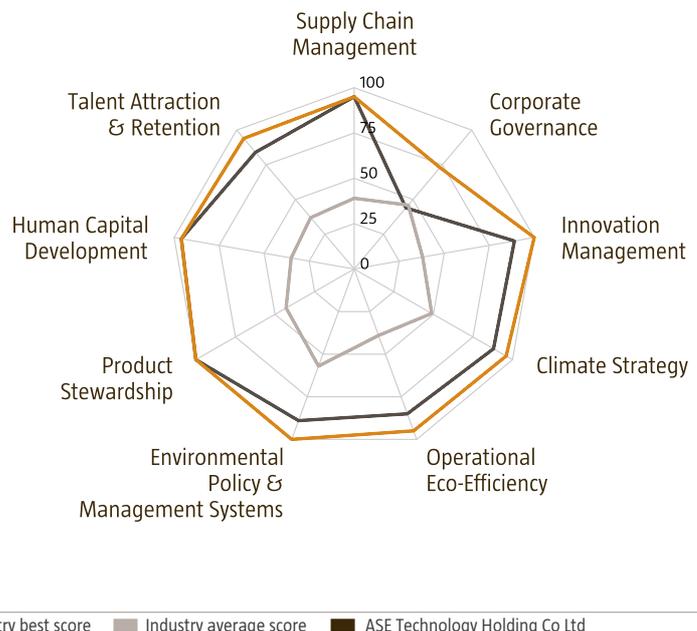
ASE Technology Holding Co Ltd leads the Semiconductors & Semiconductor Equipment industry in RobecoSAM’s Corporate Sustainability Assessment based on its Total Sustainability Score in 2018. This report provides a broad overview of the performance of the Semiconductors & Semiconductor Equipment industry and the relative positioning of ASE Technology Holding Co Ltd at the dimension and criteria level.

Industry Drivers

The emerging drivers of the semiconductor industry go far beyond the traditional PC market and include the Internet of Things, Artificial Intelligence, automotives, 5G and high-performance computing. Cybersecurity is increasing in importance as a strategic priority, as security should be included by design during chip R&D. Moore’s law is slowing as integrated circuits become smaller so the semiconductor industry must investigate new architectures, materials and packaging to go beyond current scaling and performance constraints while also addressing the demand for low-energy-consumption products. To sustain a rapid pace of innovation, the industry will increase R&D investment, in turn necessitating talent development while attracting and retaining a skilled workforce. The industry must continue to improve its usage of ultra-pure water, sourcing of conflict minerals, energy and waste management, pollution prevention, and the promotion of projects to substitute hazardous materials.

Company Performance

RobecoSAM has selected the most relevant criteria in each sustainability dimension based on their weight in the assessment and their current or expected significance for the industry. The spider chart below visualizes the performance of the industry leader against the best score achieved in each criterion and the median industry score.



## Corporate Sustainability Assessment

The RobecoSAM Corporate Sustainability Assessment (CSA) is a comprehensive annual evaluation of companies' sustainability practices and performance. Every March, RobecoSAM extends invitations to over 3,500 of the largest, listed companies globally to participate in the assessment by completing an in-depth questionnaire. Assessment results are published in September, following the analysis of companies' submissions complemented by additional research performed by RobecoSAM.

RobecoSAM's CSA is one of the longest standing ESG rating methodologies worldwide, dating back to 1999. The CSA assesses companies on the basis of 80 – 120 industry-specific questions across 60 industries focusing on financially material economic, environmental, and social factors that are relevant to companies' success, but that are under-researched in conventional financial analysis. Every year, the CSA undergoes rigorous methodological review in order to ensure that the most current material sustainability topics, as well as emerging, long-term sustainability themes often of interest to investors are reflected, and companies are challenged on topics that lack disclosure today.

The results of the CSA are used for the annual rebalancing of the iconic Dow Jones Sustainability Indices (DJSI) and are made available to investors, researchers, and non-governmental organizations through the Bloomberg Professional platform. The results of the CSA are also used for the creation of the RobecoSAM Sustainability Yearbook, one of the most comprehensive annual publications on corporate sustainability.

## Additional Resources

For more information on the CSA and a complete list of all Dow Jones Sustainability Indices constituents visit [www.robecosam.com/CSA](http://www.robecosam.com/CSA)

Assessed companies can access their own results and benchmark themselves against their peers directly through the online assessment portal.

### Contact

RobecoSAM AG  
Josefstrasse 218  
Ch-8005 Zürich Switzerland  
Tel +41 44 653 10 10  
[assessments@robecosam.com](mailto:assessments@robecosam.com)

Disclaimer. No Offer: The information and opinions contained in this publication neither constitute an offer nor an invitation to make an offer to buy or sell any securities or any options, futures or other derivatives related to such securities. The information described in this publication is not directed to persons in any jurisdiction where the provision of such information would run counter to local laws and regulation. No warranty: This information is derived from sources believed to be accurate and reliable, but neither its accuracy nor completeness is guaranteed. The material and information in this information is provided "as is" and without warranties of any kind, either expressed or implied. RobecoSAM and their related and affiliated companies disclaim all warranties, expressed or implied, including, but not limited to, implied warranties of merchantability and fitness for a particular purpose. Any opinions and views in this publication reflect the current judgment of the authors and may change without notice. It is each reader's responsibility to evaluate the accuracy, completeness and usefulness of any opinions, advice, services or other information provided in this publication. Limitation of liability: All information contained in this publication is distributed with the understanding that the authors, publishers and distributors are not rendering any legal, accounting or other professional advice or opinions on specific facts or matters and accordingly assume no liability whatsoever in connection with its use. In no event shall RobecoSAM and its related, affiliated and subsidiary companies be liable for any direct, indirect, special, incidental or consequential damages arising out of the use of any opinion or information expressly or implicitly contained in this publication. Copyright: Unless otherwise noted, text, images and layout of this publication are the exclusive property of RobecoSAM and/or its related, affiliated and subsidiary companies and may only be copied, reproduced or distributed, in whole or in part, provided that RobecoSAM AG is explicitly indicated as the source.