



European
Semiconductor
Industry
Association

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European semiconductor industry: *A strong contributor to reducing carbon emissions*

The European Semiconductor Industry Association (ESIA) unveiled its new brochure demonstrating the role the industry plays as a key enabler of the reduction of carbon emissions across society. Earlier this year¹, ESIA announced a 54% normalised emission reduction and 42% absolute emission reduction in Europe of manufacturing greenhouse gas emissions over the past decade.

The semiconductor manufacturing process uses greenhouse gases called perfluorocompound gases (PFCs) that ESIA member companies are committed to reduce. Achieved through substantial investments, these efforts implement reduction practices at operations across Europe.

Semiconductors themselves make significant contributions to mitigating carbon emissions, facilitating energy savings, and reducing power consumption in society that enable the European Green Deal's climate goals, primarily by improving the efficient use of energy.

The brochure entitled "**European Semiconductor Industry: A strong contributor to reducing Carbon Emissions**" outlines the smart solution improvements enabled by semiconductors in areas such as automobiles, smarter mobility solutions (hybrid and electric vehicles), buildings, lighting, industry production, cloud storage and computing, and by facilitating the use of renewable energy sources.

¹ Source: https://www.eusemiconductors.eu/sites/default/files/ESIA_PR_PFCemissionReductions.pdf

For more information:

[Hendrik Abma](#)

Director-General

European Semiconductor Industry Association (ESIA)

Tel: +32 2 290 36 60

About ESIA: *The European Semiconductor Industry Association (ESIA) is the voice of the semiconductor industry in Europe. Its mission is to represent and promote the common interests of the Europe-based semiconductor industry towards the European institutions and stakeholders in order to ensure a sustainable business environment and foster its global competitiveness. As a provider of key enabling technologies, the industry creates innovative solutions for industrial development, contributing to economic growth and responding to major societal challenges. Being ranked as the most R&D-intensive sector by the European Commission, the European semiconductor ecosystem supports approx. 200.000 jobs directly and up to 1.000.000 induced jobs in systems, applications and services in Europe. Overall, micro- and nano-electronics enable the generation of at least 10% of GDP in Europe and the world.*