

MAKING POSSIBLE A BETTER FUTURE

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Abstract

The growth of data generation and consumption worldwide is predicted to exceed 181 zettabytes in 2025, with a Compound Annual Rate (CAR) of 23%, driving the expansion of data centers and semiconductor chip manufacturing. However, these activities are resource-intensive and could lead to environmental problems, such as energy consumption, water depletion, and waste and emissions production. In this talk, we will discuss Applied Materials' holistic approach to sustainability. It starts with reducing the carbon footprint of our direct operations. Then reducing the much larger carbon footprint of our semi-industry partners through manufacturing tools and environmental solutions we design. And finally reducing the enormous carbon footprint of the global electronics usage by developing manufacturing process solutions that enable more energy efficient semiconductors.