

Working to Build Low-Carbon Societies

In order to reduce the threat of global warming, societies around the world must make the transition to low-carbon lifestyles. Dramatic changes are needed to halve global CO₂ emissions by 2050. Kajima is undertaking various initiatives to help building owners, businesses, and many others to minimize their CO₂ emissions.

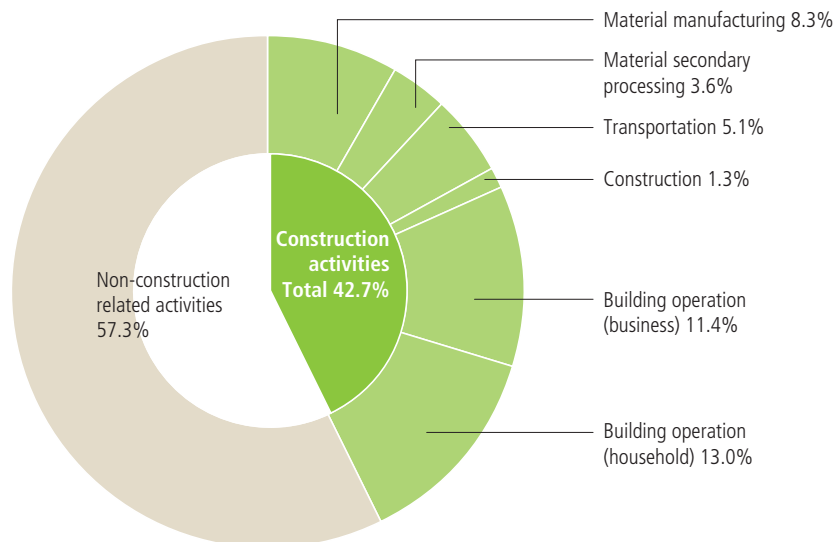
Responsibilities of the Construction Industry

About 40 percent of all CO₂ emissions produced in Japan are said to be related to the construction industry. The largest share of this volume (about 25 percent), is produced during building operation, which is followed

by material manufacturing and processing (12 percent), and transportation (5 percent). The share of emissions directly produced by construction processes themselves, however, is a mere 1 percent. All told, it is clear that buildings and other forms of social infrastructure have a long-term impact on the environment.

Accordingly, to reduce CO₂ emissions, it is important for design and engineering firms and construction companies to provide environmental solutions for the entire lifecycle. Kajima takes advantage of its in-house design division to propose innovative solutions in the critically important planning and design phase.

CO₂ emissions produced by the construction industry in Japan



Source:
 "Estimation on Environmental Load from Construction Industry Based on Japanese Input/Output Table," Architectural Institute of Japan – Journal of Architecture, Planning and Environmental Engineering (Transactions of AIJ), No. 549

Kajima Initiatives

Determined to provide society with buildings that are highly energy efficient and produce minimal CO₂ emissions during use, Kajima sets targets in the design stage that exceed the standards of Japan's Energy Conservation Law, and is realizing energy-saving performance on average 26 percent better than required by national standards. Specifically, Kajima is realizing high energy efficiency in exterior walls and installed equipment by combining numerous energy-saving technologies.

society, and develop unique initiatives to protect ecosystems. The company is also incorporating various technologies and mechanisms that address the building lifecycle. To cut CO₂ emissions by half, it will require not only improved technologies, but also changes in the way people everywhere work and live. Kajima will continue to provide solutions with the support of a wide range of stakeholders in order to realize a low-carbon society by 2050.

Kajima's commitment to building low-carbon societies requires the company not only to keep improving building performance, but also to promote the use of renewable energy, help build a recycling-oriented

