

#CarbonNeutralityPromotionOffice #CN

Promoting Carbon Neutrality in the Manufacturing Sector

Achieving carbon neutrality (CN) has become an urgent global issue. Governments and private sectors in Japan and overseas are accelerating their efforts, causing rapid changes in the business environments surrounding companies. Client companies, consumers, financial markets, governments, and various stakeholders are demanding reductions in greenhouse gas (GHG) emissions in the entire supply chain, and such call for action extends not only to major corporations but also to SMEs in the Chubu region. When the Chubu region's total CO2 emission is broken down by industry, the manufacturing sector accounts for the largest share, making it absolutely imperative for manufacturers to take CN measures.

Under these circumstances, we are exploring a support system for business operators with the potential to create a significant ripple effect throughout the entire supply chain. Working closely with the Organization for Small & Medium Enterprises and Regional Innovation, JAPAN, the Energy Conservation Center, Japan, and other organizations, we provide support for visualizing and reducing CO2 emissions. In addition, we introduce stakeholders who are at the forefront of the CN journey and highlight their success stories.

Paving the path to CN



▲ Hekinan Thermal Power Station (Photo courtesy of JERA Co., Inc.)

#CarbonNeutralityPromotionOffice #Hydrogen #Ammonia

Utilizing New Energy Sources, Including Hydrogen and Ammonia, and Establishing Stable and Large-Scale Supply Systems

Hydrogen and ammonia are emerging as new types of energy sources with anticipated applications in a wide range of sectors, including power generation, transportation, and industries, and are seen as crucial elements in achieving carbon neutrality. In the Chubu region, there are potential energy suppliers, such as energy operators. While the region is projecting demand from industries like power generation, iron and steel, chemicals, and the automotive sector, including second-tier businesses and SMEs, the rollout of these energy sources into society faces challenges in terms of cost and technology.

We are promoting the construction of a large-scale hydrogen and ammonia supply chain in the Chubu region and the creation of demand in partnership with regional stakeholders in order realize carbon neutrality and contribute to the economy through industrial growth and the creation of jobs.

Examples of hydrogen utilization for commercial trucks and other vehicles expected to be utilized in the transportation sector





▲ FC forklift (Photo courtesy of Toyota Industries Corporation)

▲ FC truck (Photo courtesy of Toyota Motor Corporation)



#EnergyPolicyDivision #NewEnergy #EnergyConservation

Promoting the Adoption of New Energy Sources and Accelerating Measures for Energy Conservation and Global Warming

We are committed to achieving carbon neutrality through various energy-related policy initiatives. Starting FY2022, we introduced the market-linked Feed-in-Premium (FIP) scheme, in addition to the Feed-in Tariff (FIT) system, to integrate renewable energy into the power supply market. Additionally, in FY2023, we amended the Energy Conservation Act to promote rational energy use and facilitate the transition to non-fossil fuels. Considering the changing environmental landscape in the energy sector, we enforce the proper laws and regulations on a daily basis. On top of that, we mount public relations activities on energy conservation, as well as promote the J-Credit Scheme targeting enterprises actively engaged in decarbonization in the Chubu region and support the creation and utilization of Chubu CO2 Credit in order to promote measures against global warming.

#EnvironmentalProtectionResourceEfficiencyandCircularEconomyDivision #CircularEconomy #Recycle

Promoting the 3Rs and Encouraging the Shift to a Circular Economy

Since the establishment of the Circular Economy Vision in 1999, our nation has been taking the lead in the effort to shift to a circular economic system. We have 扁見交換 enacted the Act on the Promotion of Effective Utilization of Resources along 中部地域発・サーキュラーエコノミ ファクトリー構想1 に関して with various recycling laws. We encourage business operators to implement recycling measures and engage in efforts to collect and reuse their products. We also promote the 3Rs, which include initiatives to reuse products and components and reduce the generation of waste through resource conservation and extended life expectancy. We are committed to raising public awareness and disseminating information about relevant laws, such as the individual recycling laws including those for automobiles and household appliances, and the Plastic Resource Circulation Act enacted in 2022. Moreover, we provide ▲ Chubu Region "CN x CF x GX" Value reation guidance for business operators to ensure compliance with these laws. Management Strategy Seminar In light of the recent challenges posed by climate change and resource constraints resulting from the increasing global demand for natural resources and heightened geopolitical risks, there is now an urgent global need to transition from a linear economy model characterized by mass production, consumption, and disposal, to a circular economy that prioritizes efficient and circular resource utilization while maximizing added value. In Japan, we perceive the circulation of resources as a new opportunity to foster a "virtuous cycle of environment and growth," so we established the Growth-Oriented Resource-Autonomous Economy Strategy in March 2023 to initiate actions towards realizing a circular economy. In anticipation of the transition to a circular economy, we are working to consolidate arterial industries centered around the automotive sector and to promote collaborations among venous industries, leveraging their potential in terms of advanced recycling technologies.

Overview of waste management and recycling system





Waste

energy and environment policy

