

Research on Development and Social Implementation of Supporting-tools for Municipalities towards Low Carbon Society

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[Abstract]

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In order to achieve carbon neutrality by the year 050, it is essential to promote energy conservation and renewable energy investment at municipal level in a regionally appropriate manner, but due to lack of financial resources, knowledge, and personnel, related policies have not progressed, especially in municipalities with small populations. Therefore, this study aims to develop and disseminate a "regional decarbonization policy support tools" to facilitate the development of regional decarbonization policies at the local level in a region-specific manner. Through this research, we will develop and disseminate the following "regional decarbonization policy support tools": (1) The "Future Chart 2050," which visualizes the impact of population decline in 2050 for each municipality; (2) The "Carbon Neutral Simulator," which allows each municipality to check the possibility to decarbonization in 2050; and (3) The "Climate Change Weather Data Provision System," which provides weather data for the past 40 years for each basic municipality, has been developed. In addition, we developed the "Decarbonization and Future Workshop" methodology using these tools and established a workshop procedure. In addition, we have developed and implemented a teaching program in "Integrated Studies/Hours of Inquiry," a regular school curriculum, at several junior high and high schools, making full use of online classes, etc. A "Manual for Utilization of Regional Decarbonization Policy Support Tools" for local governments and The "Lessons Leading to the Future" pamphlet for school personnel were published, sent to relevant parties nationwide, and made publicly available, respectively. The "Carbon Neutral Simulator" was introduced in the "Manual for Formulation and Implementation of Local Government Action Plans (Area Policies)" published by the Ministry of the Environment (March 2022), and the "Report of the Study Working Group on Regional Future Projections" (March 2021) introduced the "Future Chart" and "Future Workshop". Thus the government has already begun to utilize the results of this research.

[References]

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