

미세먼지 계절관리제가 발전소가 위치한 지역의 미세먼지에 미치는 영향

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Effects of Fine Dust Seasonal Control System on Fine Dust in the Area where Power Plants are located

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Abstract

This study analyzed the effect of the fine-dust season management system in the area where power plants are located, focusing on power generation sector of the fine-dust season management system. The fine-dust season management system has various policy meanings, such as restoring public safety and health and implementing international social energy agreements, and is an important policy to implement the recent UN Sustainable Development Goals(SDGs). The main results be following. First, among the areas of Incheon, Gangwon, Chungnam, Jeonnam, and Gyeongnam, Gyeongnam had the greatest policy effect due to the fine-dust season management system. Incheon, Chungnam, and Jeonnam are the west coast regions that are most affected by westerly winds, fine dust from China, and climate factors. Accordingly, it is interpreted as an area where the policy effect is not significant even if the fine dust season management system in the power generation area is implemented. Second, in the case of Incheon and Chungnam, which supply electricity to the metropolitan area, the effect is insufficient or it can be seen that it has a policy adverse effect. Since the fine-dust season management system is implemented on the premise that the policy goal is "stability of power demand," there is a possibility that output restrictions will not be properly implemented in the metropolitan area with the highest power demand.

Keywords: The fine-dust season management system, Synthetic control method, Power generation

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