

Evaluation and Improvement of Low-emission Measures for 5th Grade Diesel Vehicles in Gyeonggi-Do

As a result of promoting the low-pollution project of Gyeonggi-Do's 5th grade diesel vehicles from 2011 to 2019, it was analyzed that the effect of reducing air pollutants such as PM10 and PM2.5 and economics was very excellent. However, the complexity of the operation restriction system, the limitation of social acceptance, and the lack of a subsidy budget are obstacles to the early low pollution of old diesel vehicles.

For the effective promotion of the Gyeonggi-Do's old diesel vehicle low-emission project, it is expected to spend a total of 536.3 billion won in Gyeonggi-Do's 5th grade diesel vehicle low-emission project cost from 2020 to June 2022. In financing, the current matching structure should be maintained, and if necessary, a 20% increase in national expenditure should be suggested.

The self-payment reduction, a continuous package support system for installation of a reduction device and early scrapping subsidy, and TV public service advertisement of old diesel vehicles low-emission project by the operation restriction system in order to increase the participation rate should be promoted.

The emphasis on early scrapping and strengthening support for self-employed old trucks in order to significantly suppress old diesel vehicles should be promoted. For vehicles that cannot be equipped with a reduction device for 55,000 old diesel vehicles in Gyeonggi-Do, we need to actively induce early scrapping by establishing a corresponding subsidy budget for the smooth early scrapping of the 7th civilian elections.

The operation restriction system will be promoted in the direction of simplifying, but the current three systems will be operated until 2022, and from 2023 it should be integrated into the LEZ or operated in parallel with LEZ+ operation restriction during high concentration of PM10.

The reduction of PM10 and the economics of the low-pollution of a 5th grade diesel vehicle were proven. Therefore, it is necessary to expand operation restrictions for 4th grade diesel vehicles from 2023 and 3th grade diesel vehicles from 2028 to achieve the PM10 reduction target in the Seoul metropolitan area.

It is necessary to operate a system that primarily handles information, reception, and consultation complaints by establishing an integrated call center for low pollution projects.

Key Word 5th grade diesel vehicle, low-emission project, LEZ, PM10, DPF, early scrapping