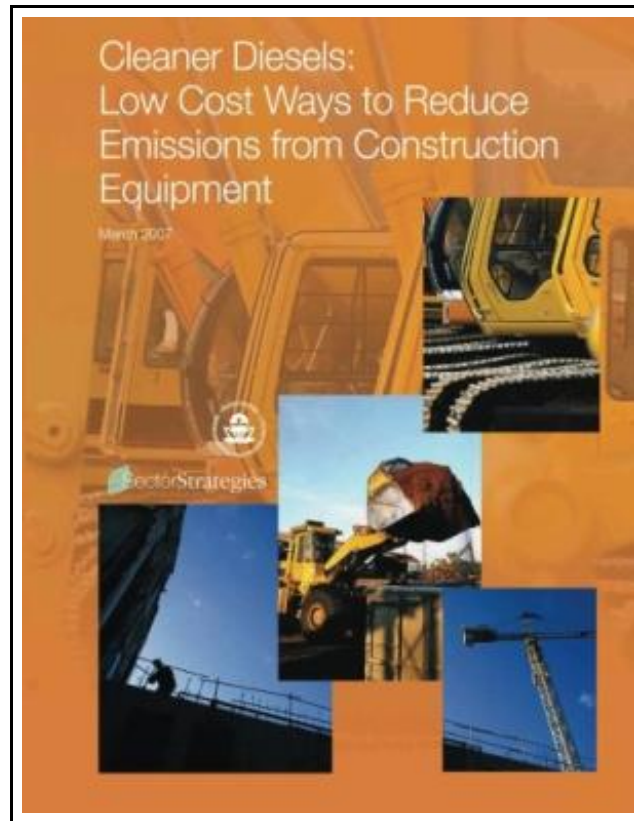


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CLEANER DIESELS: LOW COST WAYS TO REDUCE EMISSIONS FROM CONSTRUCTION EQUIPMENT



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Createspace, United States, 2015. Paperback. Book Condition: New. 279 x 216 mm. Language: English . Brand New Book ***** Print on Demand *****.Air pollution from diesel emissions is a public health concern that reaches every part of the country. There are two main pollutants of concern in diesel exhaust that affect human health: nitrogen oxide (NO_x) and particulate matter (PM). NO_x is one of the main ingredients in the formation of ground-level ozone, which can trigger respiratory problems. Ozone can aggravate asthma and other respiratory diseases, leading to more visits to the emergency room and increased hospitalizations. Ozone can inflame and damage the lining of the lungs. This may lead to permanent changes in lung tissue and to irreversible reductions in lung function if the inflammation occurs repeatedly over a long time period. PM has been associated with an increased risk of premature mortality, hospital admissions for heart and lung disease, and increased respiratory symptoms. Long-term exposure to diesel exhaust is likely to pose a lung cancer hazard. In addition, PM, NO_x, and ozone adversely affect the environment in various ways including visibility impairment, crop damage, and acid rain. The construction sector is a significant contributor to these emissions, creating 32 percent of all mobile source NO_x emissions and 37 percent of PM emissions. While stringent new emissions standards are scheduled to significantly reduce emissions from new nonroad equipment starting in 2008, much of the equipment in the current nonroad diesel fleet will continue to operate for many years to come. Therefore, reducing emissions from the existing legacy construction equipment fleet is an important component of EPA's emissions control strategy. The construction sector is highly diverse and is made up predominately of smaller companies. Approximately 92 percent of construction companies have 20 or fewer employees. They tend to be...



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