

Selecting Road-Noise Abatement Measures: Economic Analysis of Different Policy Objectives

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Abstract: To satisfy new legislation, the Norwegian Public Roads Administration implemented a national façade insulation program encompassing 2,500 dwellings exposed to high levels of road traffic noise. Thereby, the road owner brought the equivalent noise levels from road traffic in compliance with a new indoor limit of 42dB. Cost-effectiveness analyses show that façade insulation was the least expensive noise-control alternative per dwelling. However, cost-benefit analyses show that the benefits were less than 20 per cent of costs. One reason for the poor benefit-cost ratio is that only the residents of the targeted dwellings benefit from at-receiver measures. Measures at the source and/or targeting the propagation paths also provide noise benefits for residents living along the same streets as the most noise exposed and inadequately insulated dwellings.

A mixed noise abatement policy employing low-noise asphalts in addition to façade insulation is therefore considered. For 750 dwellings where two or more of the dwellings were located along the same road stretch, low noise asphalts replaced façade insulation as noise abatement method. Façade insulation was kept as noise abatement method for the remaining 1,750 dwellings. The mixed noise abatement policy costs more, but now provides total benefits that match the total costs.

Even higher benefit-cost ratios are obtained when reframing the economic analyses within the context of a national policy to reduce noise annoyance, and when focussing solely on more densely populated areas where low-noise asphalts is a viable alternative to façade insulation. Since environmental authorities are in the process of further lowering the indoor noise limit, the road authorities should consider preparing an organisational and financial framework for implementing low-noise surfaces based on cost-benefit calculations. Such a policy would have the added benefit of improving urban soundscapes for a significant number of residents, workers, cyclists, pedestrians and children.

Keywords: Environmental limits, façade insulation, low-noise asphalt, noise measures, noise policy, dual objectives, soundscape.

1. INTRODUCTION

Traffic noise became the subject of Norwegian pollution regulation in 1997, regulation specifying that indoor equivalent noise levels should not exceed 42 decibels (dB). Where indoor noise levels exceeded the new environmental limit, infrastructure owners, among them, the Norwegian Public Road Authorities, were obliged to comply with the new regulations before the year 2005. One measure reducing indoor noise exposure, indoor noise annoyance and sleep disturbance is façade insulation [1-3]. To meet the new noise limits, the Norwegian Public Road Authorities introduced a façade insulation programme affecting 2,500 dwellings nationally and, to capitalize on the research opportunity presented, the Norwegian Façade Insulation Study [4] was realised.

The first round of results from the Norwegian Façade Insulation Study shows that respondents receiving façade insulation benefited significantly and substantially from the measure [5]. However, since noise abatement using façade insulation is costly, economic analyses were undertaken as part of the Insulation Study. Here, we examine this clean-up

effort along the roads, focussing on how an alternative mix of noise-abatement measures would have been in terms of costs and benefits compared to façade insulation alone.

When the objective of fulfilling a new pollution regulation is being considered, a cost-effectiveness analysis (CEA), which is about finding the least costly way of meeting the regulatory limit, is often carried out. Measures more costly than the least costly are disregarded, even though the additional benefits may outweigh the added cost. Cost-benefit analysis (CBA), on the other hand, compares the various benefits of a measure to the costs [6]. In CBA, the measure with the highest ratio between benefits and costs will often be considered the most advantageous, regardless of whether it is relatively costly or not. When considering CEA vs CBA, it is relevant to point out that Norway has been moving towards a national target of noise annoyance reduction by 25 per cent before the year 2010. This reduction was to be accomplished mainly by addressing noise emissions at source. The target has since been reduced to 10 per cent reduction in noise annoyance, and the time limit for attaining the target pushed forward to 2020. Since road traffic noise is responsible for 80 per cent of noise-annoyance in Norway [7], and the main cause is road surface/tyre interaction, the authorities may need to find low-noise road surfaces that will survive winter conditions in the country [8].

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Table of Contents Economic Analysis Of Transportation Noise Abatement

1. Understanding the eBook Economic Analysis Of Transportation Noise Abatement
 - The Rise of Digital Reading Economic Analysis Of Transportation Noise Abatement
 - Advantages of eBooks Over Traditional Books
2. Identifying Economic Analysis Of Transportation Noise Abatement
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Economic Analysis Of Transportation Noise Abatement
 - User-Friendly Interface
4. Exploring eBook Recommendations from Economic Analysis Of Transportation Noise Abatement
 - Personalized Recommendations
 - Economic Analysis Of Transportation Noise Abatement User Reviews and Ratings
 - Economic Analysis Of Transportation Noise Abatement and Bestseller Lists

5. Accessing Economic Analysis Of Transportation Noise Abatement Free and Paid eBooks
 - Economic Analysis Of Transportation Noise Abatement Public Domain eBooks
 - Economic Analysis Of Transportation Noise Abatement eBook Subscription Services
 - Economic Analysis Of Transportation Noise Abatement Budget-Friendly Options
6. Navigating Economic Analysis Of Transportation Noise Abatement eBook Formats
 - ePub, PDF, MOBI, and More
 - Economic Analysis Of Transportation Noise Abatement Compatibility with Devices
 - Economic Analysis Of Transportation Noise Abatement Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Economic Analysis Of Transportation Noise Abatement
 - Highlighting and Note-Taking Economic Analysis Of Transportation Noise Abatement
 - Interactive Elements Economic Analysis Of Transportation Noise Abatement
8. Staying Engaged with Economic Analysis Of Transportation Noise Abatement
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Economic Analysis Of Transportation Noise Abatement
9. Balancing eBooks and Physical Books Economic Analysis Of Transportation Noise Abatement
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Economic Analysis Of Transportation Noise Abatement
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Economic Analysis Of Transportation Noise Abatement
 - Setting Reading Goals Economic Analysis Of Transportation Noise Abatement
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Economic Analysis Of Transportation Noise Abatement
 - Fact-Checking eBook Content of Economic Analysis Of Transportation Noise Abatement
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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