

ESTABLISHING ABATEMENT ALTERNATIVES IN CONSTRUCTION

Meysam Ebrahiminejad¹, Eghbal Shakeri and Abdollah Ardeshir

Department of Civil and Environmental Engineering, Amirkabir University of Technology (Tehran Polytechnic), 424 Hafez Ave, Tehran, Iran

Construction operations consume energy and due to the associated emission of greenhouse gases (GHG), leave negative environmental impacts. Many construction contractors look on emission mitigation efforts as being counter to profit and of secondary priority. However, due to increased social pressure, contractors are being obliged to reduce energy consumption and mitigate emissions. This paper focuses on emissions during construction. The aim of this research is to provide construction contractors with an understanding of the effectiveness and cost of available abatement alternatives and aid them in making profitable decisions while minimizing project emissions. Based on data from a road construction project, required material quantities, available suppliers, delivery vehicles and the NONROAD model, the cost and emissions of each possible procurement alternative are compared. The abatement curves are used to present the results. It is shown that by simply considering emissions in decision making, changing material supplier can help mitigate emissions. It demonstrates that for contractors who intend to make environmental friendly decisions, there exist affordable alternatives.

Keywords: construction operations, abatement curves, greenhouse gases, emissions, energy consumption.

INTRODUCTION

The push to examine carbon emissions is driven by obligatory and voluntarily regulations aimed at reducing greenhouse gases (GHG) set in response to global concerns over climate change issues. Minimizing carbon footprint is seen as a global priority and an important step towards sustainability (Piratla *et al.*, 2012).

Construction industry not only consumes energy, but also emits GHG which lead to climate change and global warming (Guggemos and Hovarth, 2005; Dixit *et al.*, 2010). Although compared with other industries, each individual construction project may not contribute to a large quantity of GHGs but the aggregate GHG product of the large number of construction projects is significant. For example, the construction industry is responsible for 40% of the primary energy use, and 36% of the energy related CO₂ emissions in industrialized countries (Blengini and Di Carlo 2010). In addition, in the United States, the construction industry ranks third after cement and steel production industries which supply construction projects with required material for its CO₂ emissions per unit of energy used as input (Avaetisyan *et al.* 2012).

However, when it comes to mitigation efforts, construction contractors, look at environmental issues generally as being counter to profit and secondary priority

¹ ebrahiminejad@aut.ac.ir

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