

# **Destructive Phenomenon of Dust Storm and Its Mitigation Measures on the Global Scale**

**Naser Tarkeshdooz**  
**Managing Director of Mahab Ghodss Consulting Engineering Company, Iran**  
**Member of ICOLD Committee**

Email: ntarkeshdooz@yahoo.com

## **Abstract**

Today, “Air Pollution” especially the greenhouse gases generation; and dust storm, (known as dust cloud and dust layer) have become a severe problem of human’s life and a real threat to the public health. The issue is considered as a serious challenge for the societies, experts and etc. In this article, it is attempted first to define the phenomenon, (dust storm, dust layer or cloud), and then to give a brief summarized actual mechanism of their formation. Also secondly to describe their movement and travelling, together with the causes of their remaining partly in the sky and partly deposited. The article concludes that the excessive generations of the greenhouse gases are the main cause of pollution, and consequently the formation of the dust storm (or dust layer or cloud). Also the most logical and possible remedial measure is to decrease and mitigate the generation of the greenhouse gases. It is also concluded that the thermal power station is responsible for generating the biggest portion and percentage of the greenhouse gases and the transportation, industry and households uses are in descending order. To achieve the effective reduction in greenhouse gases generation, one must resort to replacement of the production of the thermal power plant by the renewable energy; and also allocate the largest possible share for the clean, green, renewable energy in the basket of energy future production. Among the renewable energies, the hydropower clean and green energy is the most logical, possible, economical alternative.

**Keywords: Green House Gas Generation, Dust Storm, Health Problem, Mitigation, Hydropower as Solution.**