

AIR POLLUTION IN ULAANBAATAR





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INTRODUCTION

- Ulaanbaatar is the coldest capital city in the world
- Approximately 1.4 million residents
 - Half of them are living in GER which is traditional house where stoves are used for cooking and space heating
- Located in valley
- Surrounded by mountains
- The main energy source is raw coal

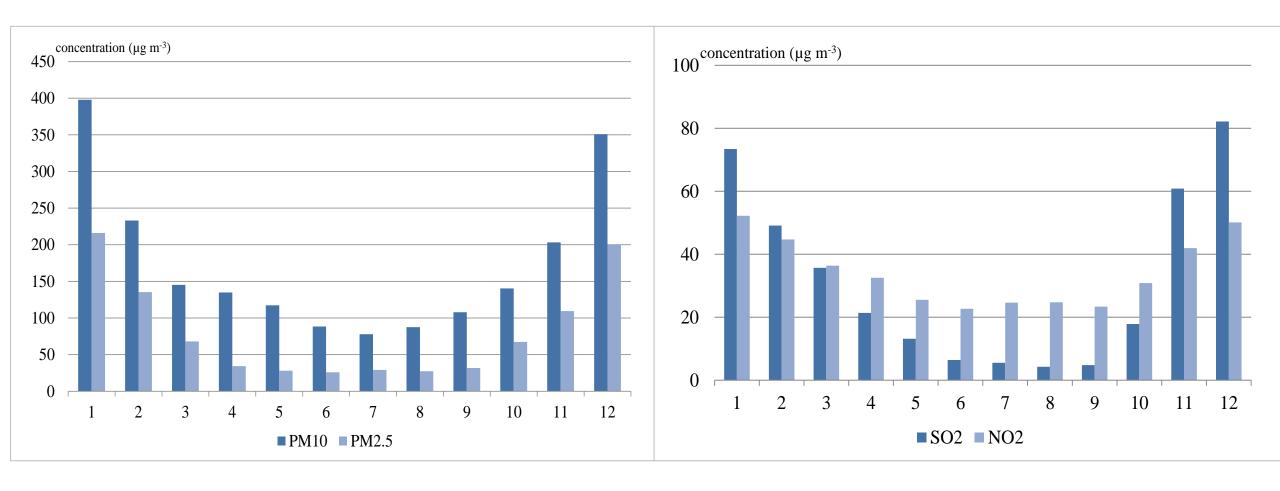








Air quality in Ulaanbaatar city



Strong monthly/seasonal variation, winter high and summer low, was observed for coarse and fine particulate matters as well sulfur dioxide due to usage of coal.



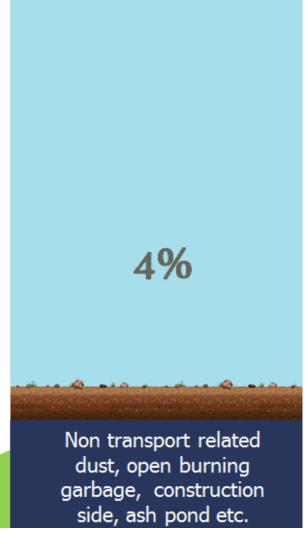
Source of air pollution



218,665 household stoves, 3000 Heat only boilers









Air quality monitoring network in UB

15 air quality monitoring stations in Ulaanbaatar to monitor air pollution level.













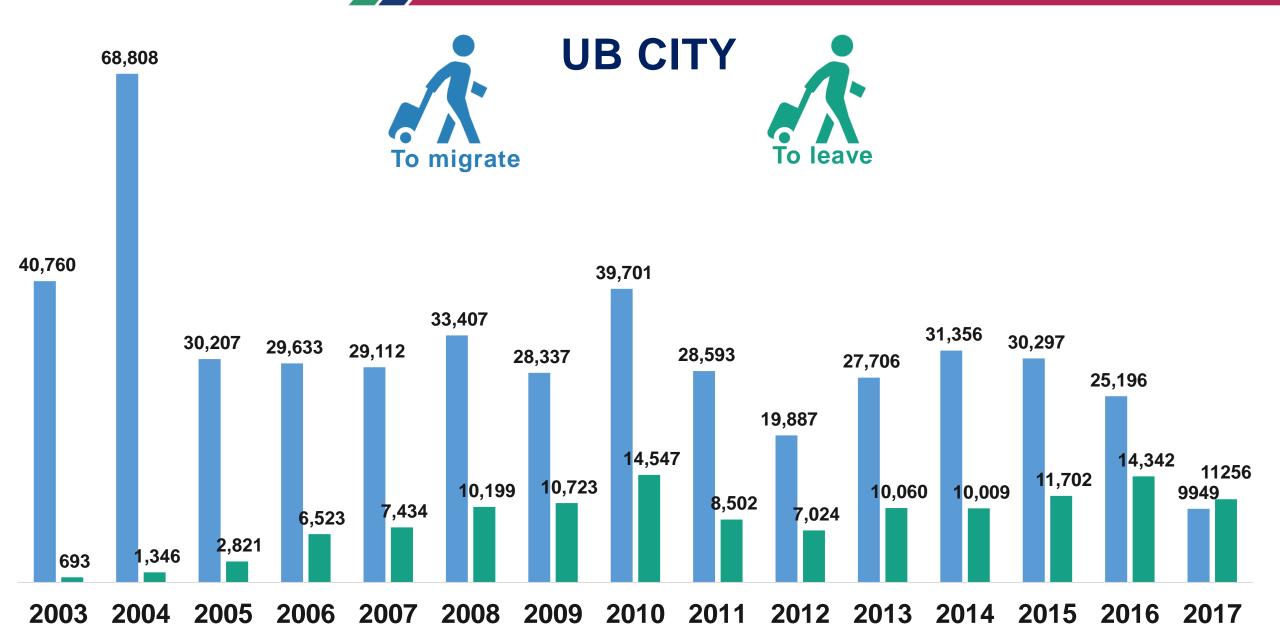
Air quality management legislations

Law	Year
Law of Air quality /refined/	17 th May 2012
Law of the air pollutants payment	24 th June 2010

Regulation document	Year
Ulaanbaatar 2020 master plan and development approaches for 2030	2016
National action program for reducing air and environmental pollution	20 th Mar 2017
Regulation document of air quality improvement zone /annually refined/	23 th Dec 2017
Regulation document of inventory HOB	19 th Oct 2014
Orders to reduce air pollution	16 th Jan 2008

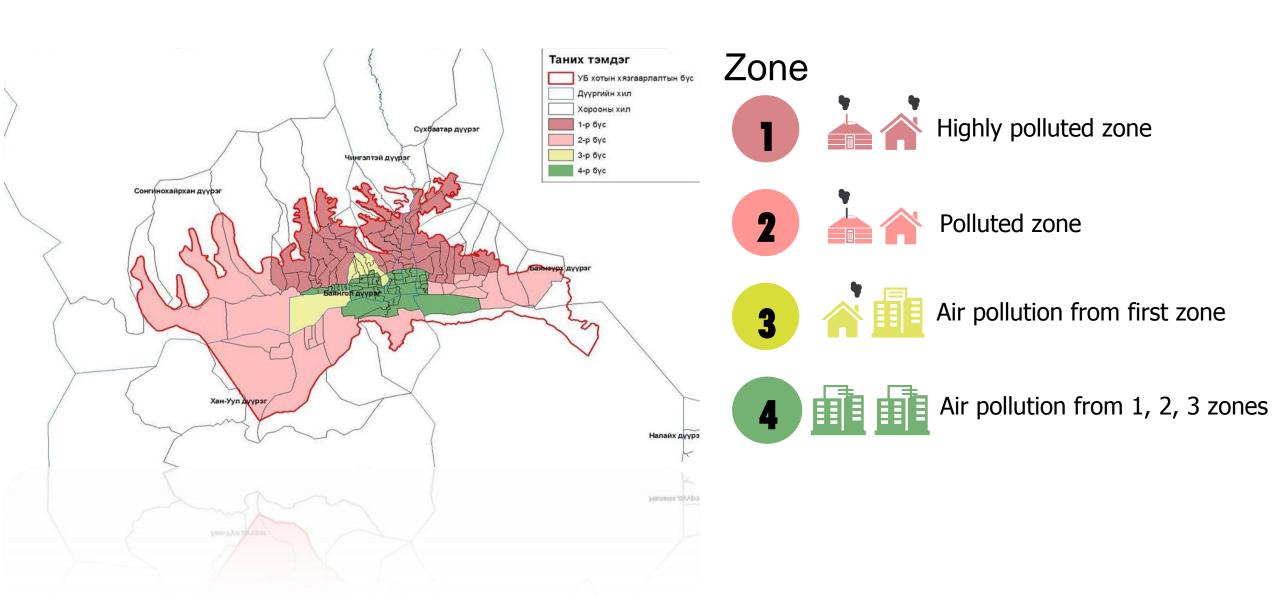


Temporary migration and movements to UB



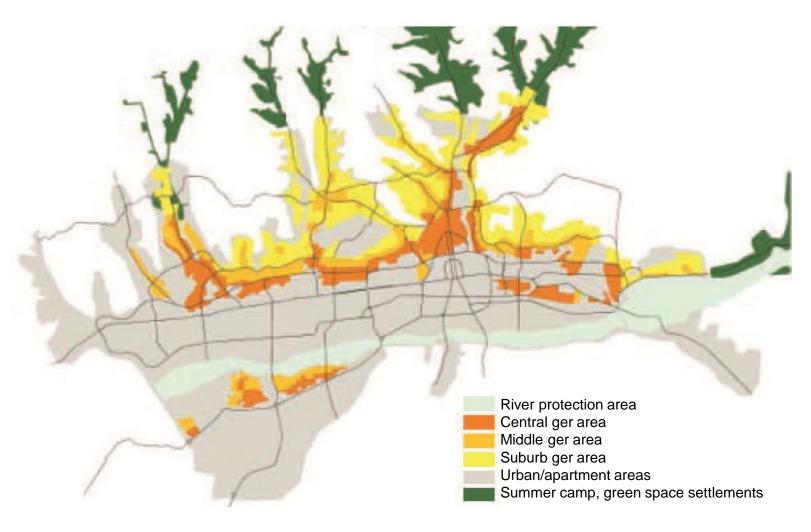


Air quality improvement zone





Strategy for redevelopment of ger areas



Central ger area

This area can be connected to the city utility grid.

Middle ger area

Residential neighborhoods within this area will have self-sustaining utilities or partially connected to the city utility grid.

Suburb ger area

The redevelopment in this area is proposing to build low rise development, including private houses with self-sustaining utilities.

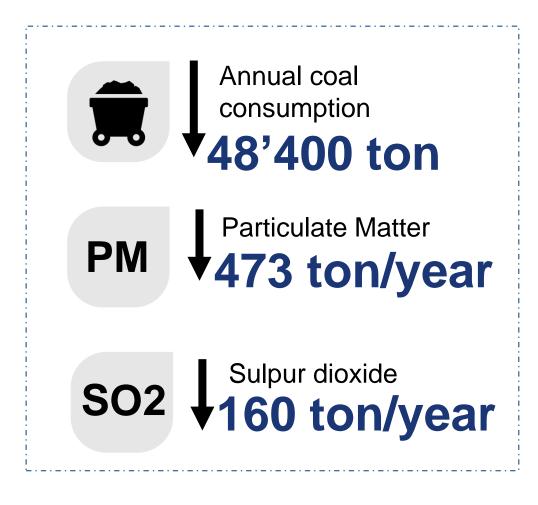


"Infrastructure center" project

Build 50 infrastructure center until 2020



Emission of air pollutants

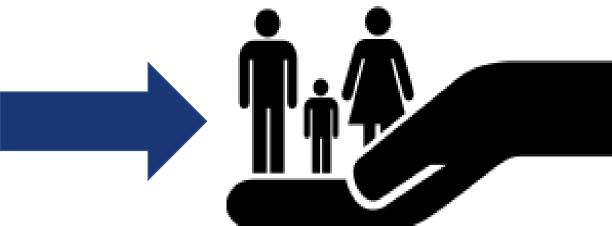




// Processed coal

Prohibited to use raw coal from 15 May, 2019















To improve indoor air quality











130 Kindergartens have provided air filter

125 schools have provided air filter

15 hospitals have provided air filter

142 family health center have provided air filter

4 custody homes have provided air filter







Eco-friendly public transportation



19 CNG buses from February 07, 2018





