

INTERNATIONAL DAY OF CLEAN AIR FOR BLUE SKIES 2020
Clean Air - For a Happy, Healthy and Prosperous Society
7 September 2020



**ОРЧНЫ БОХИРДЛЫГ
БУУРУУЛАХ ҮНДЭСНИЙ ХОРОО**

Mongolia's experience sharing on the improvement of air quality



This is not an ADB material. The views expressed in this document are the views of the author/s and/or their organizations and do not necessarily reflect the views or policies of the Asian Development Bank, or its Board of Governors, or the governments they represent. ADB does not guarantee the accuracy and/or completeness of the material's contents, and accepts no responsibility for any direct or indirect consequence of their use or reliance, whether wholly or partially. Please feel free to contact the authors directly should you have queries.

**Dr. Gantuya Ganbat, National Committee on Reducing Environmental
Pollution, Ministry of Environment and Tourism, Mongolia**

Outline

- Background
- Main challenges
- Policy solutions



ОРЧНЫ БОХИРДЛЫГ
БУУРУУЛАХ ҮНДЭСНИЙ ХОРОО

Brief info



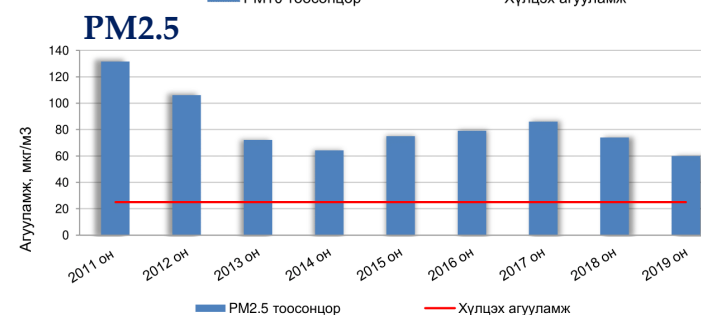
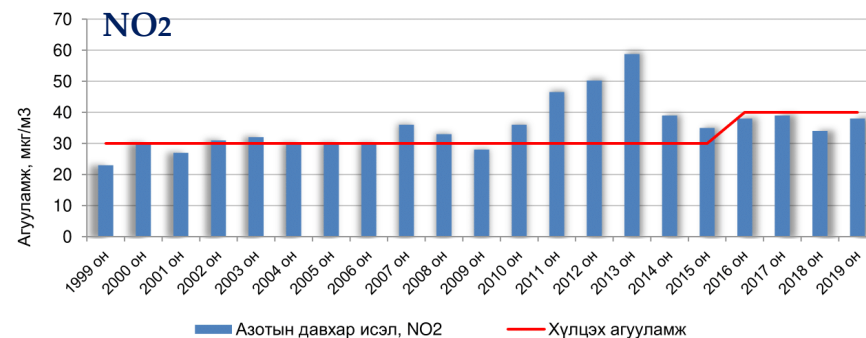
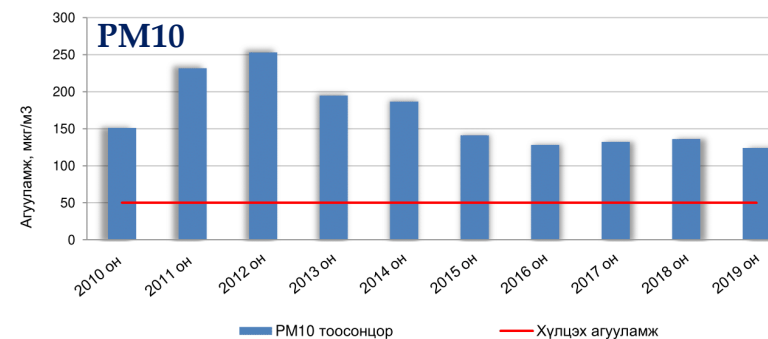
ОРЧНЫ БОХИРДЛЫГ
БУУРУУЛАХ ҮНДЭСНИЙ ХОРОО

Monitoring

15 sites in Ulaanbaatar + 26 in provincial centers



Pollutants: SO_2 , NO_2 , PM_{10} , $\text{PM}_{2.5}$, CO , O_3



Sources of air pollution

80%



GER AREAS

~200K HOUSEHOLDS
3,273 HOBs

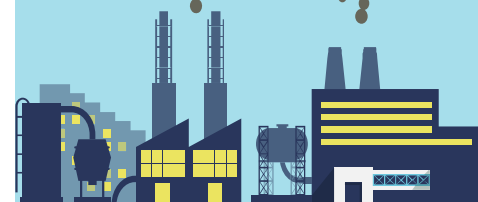
10%



TRANSPORTATION

~568K transports

6%



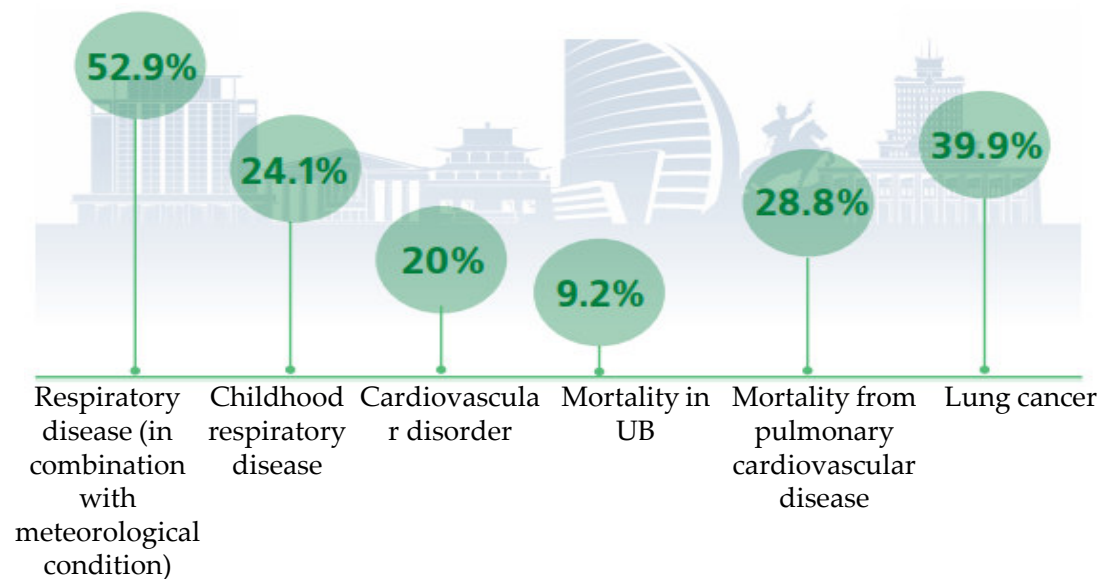
POWER PLANTS

4%



DUST, WASTE, SOIL AND
OTHER SOURCES

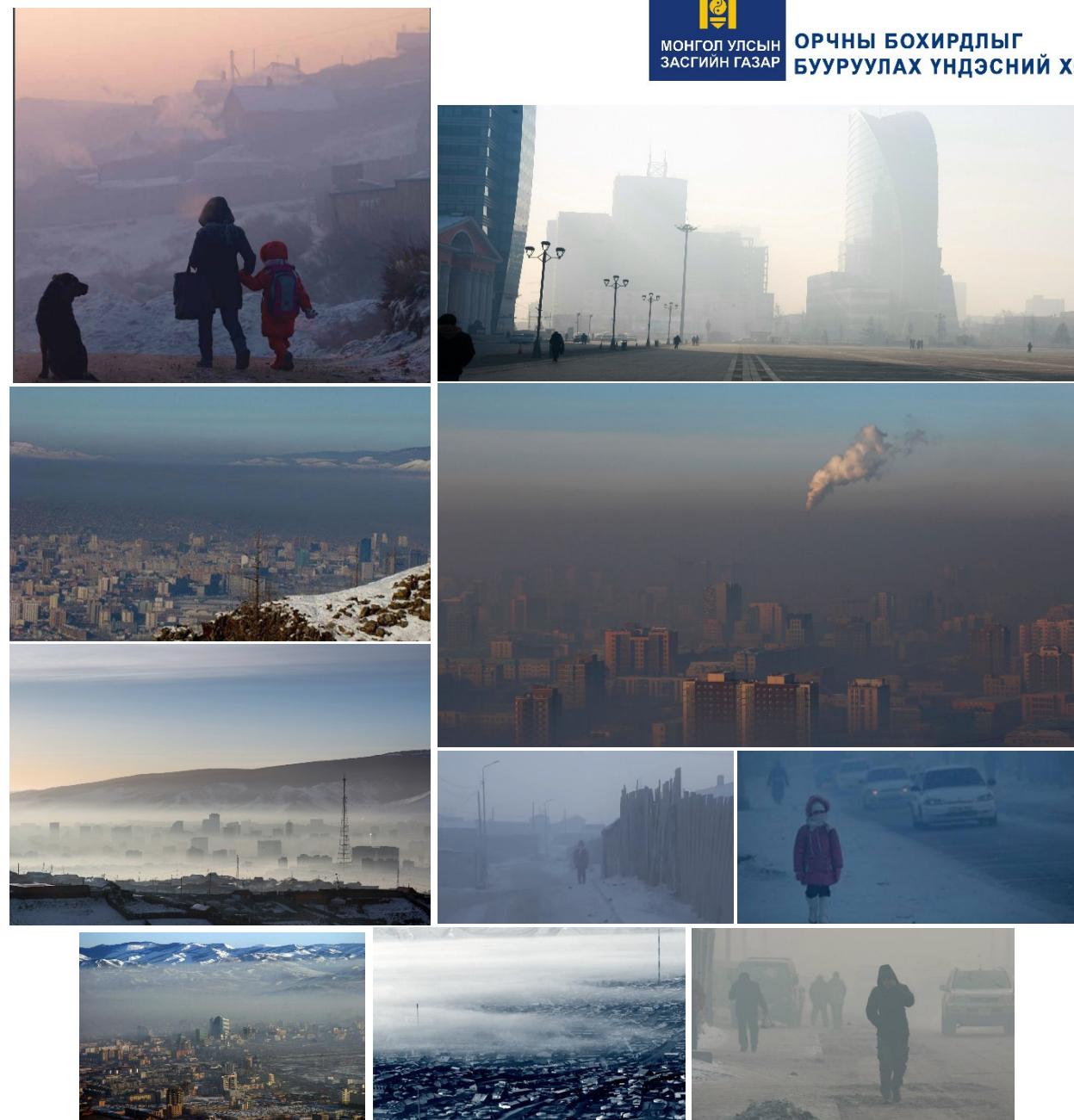
Challenges



- 90% of the hospital admission is respiratory disease
- 80% of the hospital admission of patients with pneumonia is accounted in winter time and 53% is related to air pollution
- Air pollution in combination with weather condition has direct health effect, affecting in 53% and 20% of the respiratory and cardiovascular diseases, respectively.
- Indoor air pollution filter reduces the indoor PM2.5 by 25% and it results in increase in fetal weight by 80 gr.



ОРЧНЫ БОХИРДЛЫГ
БУУРУУЛАХ ҮНДЭСНИЙ ХОРОО



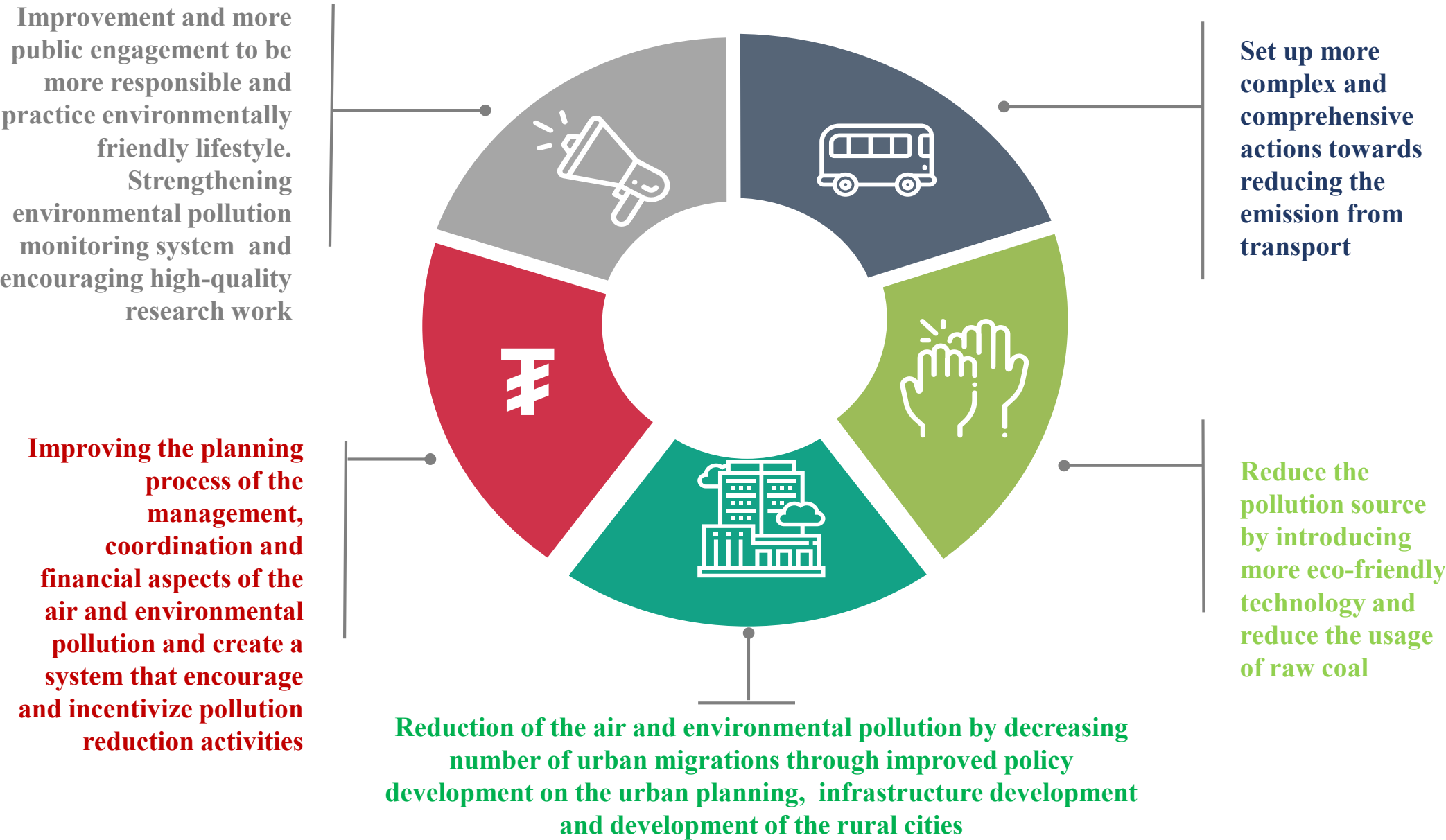
Increase in PM2.5 by 10 $\mu\text{g}/\text{m}^3$ results in increase in hospital admission by 0.8% due to cardiovascular disease.
Reduction of PM2.5 by 200 $\mu\text{g}/\text{m}^3$ results in reduction of respiratory and cardiovascular mortality by 28% in winter time.



ОРЧНЫ БОХИРДЛЫГ
БУУРУУЛАХ ҮНДЭСНИЙ ХОРОО

SOLUTIONS

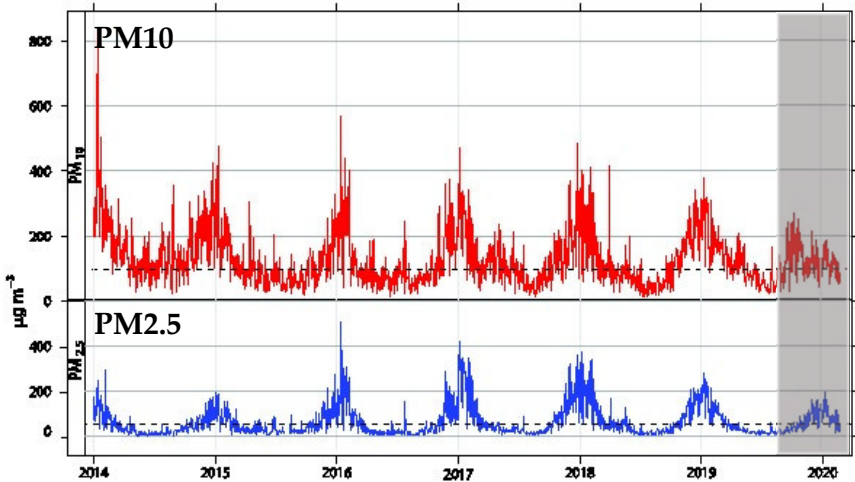
National Programme on Air and Environmental Pollution Reduction (2017-2025)
adopted by the Mongolian Government in 2017



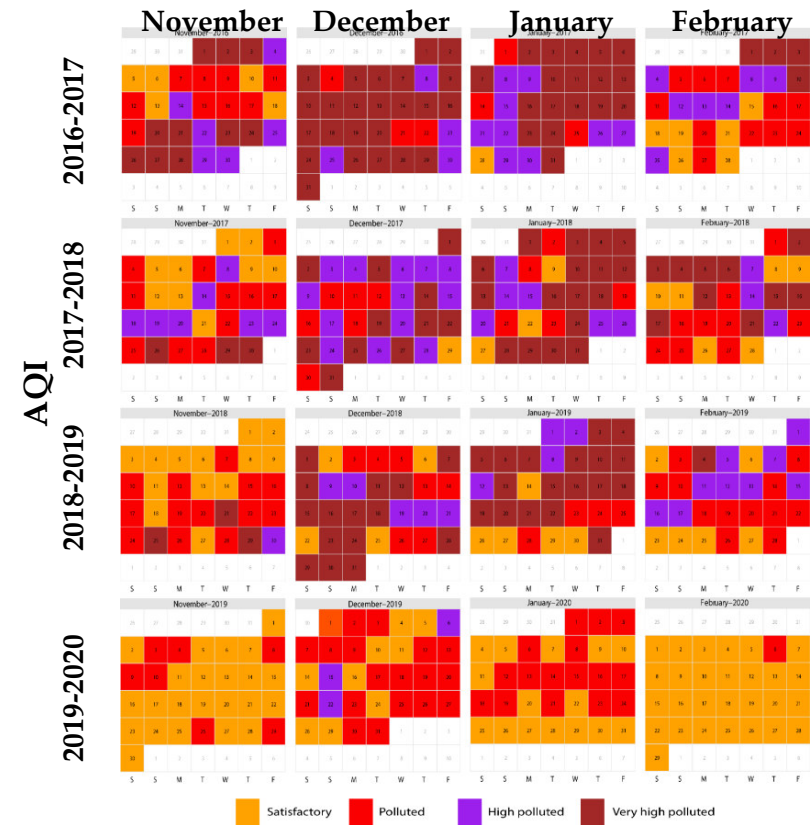
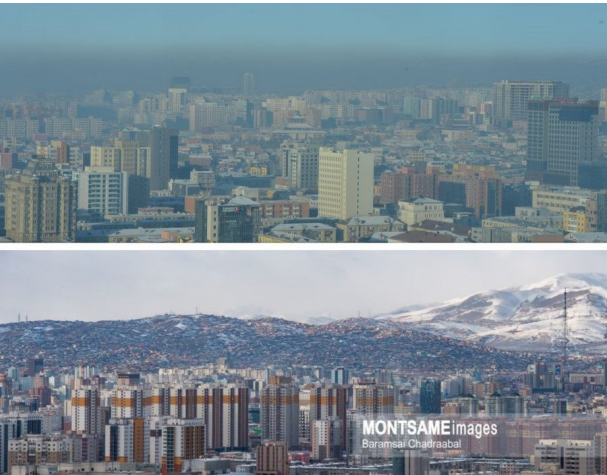
Improvement in air quality in Ulaanbaatar for winter 2019/2020



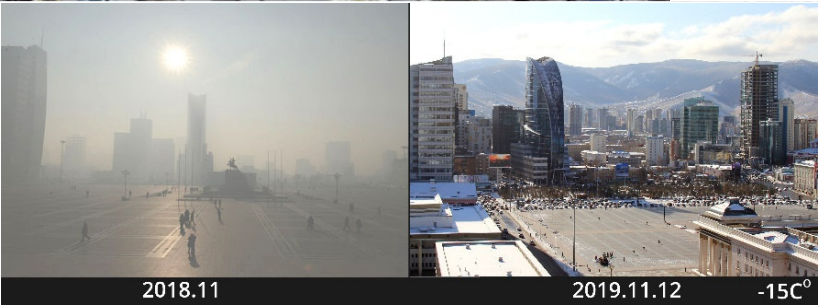
ОРЧНЫ БОХИРДЛЫГ
БУУРУУЛАХ ҮНДЭСНИЙ ХОРОО



2018



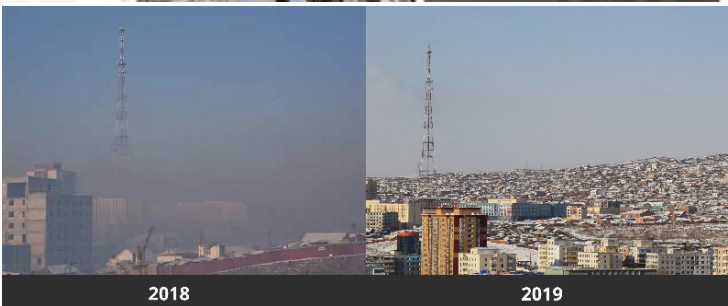
2019



2018.11

2019.11.12

-15C°



2018

2019



ОРЧНЫ БОХИРДЛЫГ
БУУРУУЛАХ ҮНДЭСНИЙ ХОРОО

**Thank you for your
attention!**

PANEL DISCUSSION

Key action: Transition from raw coal to briquette fuel in Ulaanbaatar since May 2019

Electricity nighttime tariff



МОНГОЛ УЛСЫН
ЗАСГИЙН ГАЗАР

2019.11.01 ӨДРӨӨС ЭХЛЭН ГЭР ХОРООЛЛЫН
ЦАХИЛГААНЫ ШӨНИЙН ТАРИФЫГ
100% ХӨНГӨЛНӨ

Иргэн та цахилгаан халаалт хэрэглэхдээ ажуйн цахилгаан төхөөрөмж, цахилгааны холболт, халаагуурын бүрэн бүтэн байдлыг нягтлан шалгаж галын аюулаас сэргийлнэ үү!

АГААРЫН БОХИРДЛЫН ЭСРЭГ ХҮЧЭЭ НЭГТГЭЭ!

Replacing HOBs

