ADDITIONAL MATERIALS AVAILABLE ON THE HEI WEB SITE

Special Report 20
Burden of Disease Attributable to Coal-Burning and Other Major Sources of Air Pollution in China

GBD MAPS Working Group

Additional Materials: Graphical Displays of Estimated Chinese National and Province-Specific Absolute and Age-Standardized PM$_{2.5}$-Attributable Deaths and DALYs by Air Pollution Source for 2013 and Four Future Scenarios in 2030

Section 1:
Estimated Chinese National and Province-Specific Age-Standardized Rates (per 100,000) of Disability-Adjusted Life Years (DALYs) and Deaths Attributable to PM$_{2.5}$ by Air Pollution Source for 2013 and Four Future Scenarios in 2030

Section 2:
Estimated Chinese National and Province-Specific Numbers of Disability-Adjusted Life Years (DALYs) and Deaths Attributable to PM$_{2.5}$ by Air Pollution Source for All Ages for 2013 and Four Future Scenarios in 2030

These Additional Materials have not been edited or formatted by HEI.

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Section 1

Estimated Chinese National and Province-Specific Age-Standardized Rates (per 100,000) of Disability-Adjusted Life Years (DALYs) and Deaths Attributable to PM$_{2.5}$ by Air Pollution Source for 2013 and Four Future Scenarios in 2030
Age STD. Deaths Attributable to Air PM: China

![Chart showing death rates by subsector and scenario.](chart_image)

- **Transportation**
- **Solvent Use**
- **Industrial (non-coal)**
- **Biomass: Open Burning**
- **Domestic Biomass**
- **Coal: Domestic**
- **Coal: Powerplant**
- **Coal: Industrial**
- **Coal: Total**
- **All Ambient Pm2.5**

**Scenario**
- STD (2013)
- BAU1 (2030)
- BAU2 (2030)
- PC1 (2030)
- PC2 (2030)
Age STD. Burden Attributable to Air PM: Chongqing

- Transportation
- Solvent Use
- Industrial (non-coal)
- Biomass: Open Burning
- Domestic Biomass
- Coal: Domestic
- Coal: Powerplant
- Coal: Industrial
- Coal: Total
- All Ambient Pm2.5

DALY Rate/100k

Scenario:
- STD (2013)
- BAU1 (2030)
- BAU2 (2030)
- PC1 (2030)
- PC2 (2030)
Age STD. Deaths Attributable to Air PM: Gansu

Death Rate/100k

- Transportation
- Solvent Use
- Industrial (non-coal)
- Biomass: Open Burning
- Domestic Biomass
- Coal: Domestic
- Coal: Powerplant
- Coal: Industrial
- Coal: Total
- All Ambient Pm2.5

Scenario:
- STD (2013)
- BAU1 (2030)
- BAU2 (2030)
- PC1 (2030)
- PC2 (2030)
Age STD. Deaths Attributable to Air PM: Guangxi
Age STD. Burden Attributable to Air PM: Guizhou

Scenario
- STD (2013)
- BAU1 (2030)
- BAU2 (2030)
- PC1 (2030)
- PC2 (2030)

Subsector
- Transportation
- Solvent Use
- Industrial (non-coal)
- Biomass: Open Burning
- Domestic Biomass
- Coal: Domestic
- Coal: Powerplant
- Coal: Industrial
- Coal: Total
- All Ambient PM2.5

DALY Rate/100k
Age STD. Deaths Attributable to Air PM: Guizhou
Age STD. Deaths Attributable to Air PM: Hubei

- Transportation
- Solvent Use
- Industrial (non-coal)
- Biomass: Open Burning
- Domestic Biomass
- Coal: Domestic
- Coal: Powerplant
- Coal: Industrial
- Coal: Total
- All Ambient PM2.5

Scenario
STD (2013)
BAU1 (2030)
BAU2 (2030)
PC1 (2030)
PC2 (2030)
Age STD. Burden Attributable to Air PM: Inner Mongolia

- Transportation
- Solvent Use
- Industrial (non-coal)
- Biomass: Open Burning
- Domestic Biomass
- Coal: Domestic
- Coal: Powerplant
- Coal: Industrial
- Coal: Total
- All Ambient Pm2.5

Scenario:
- STD (2013)
- BAU1 (2030)
- BAU2 (2030)
- PC1 (2030)
- PC2 (2030)
Age STD. Deaths Attributable to Air PM: Shanghai

Scenario:
- STD (2013)
- BAU1 (2030)
- BAU2 (2030)
- PC1 (2030)
- PC2 (2030)

Death Rate/100k

Subsector:
- Transportation
- Solvent Use
- Industrial (non-coal)
- Biomass: Open Burning
- Domestic Biomass
- Coal: Domestic
- Coal: Powerplant
- Coal: Industrial
- Coal: Total
- All Ambient PM2.5

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Age STD. Deaths Attributable to Air PM: Shanxi

- Transportation
- Solvent Use
- Industrial (non-coal)
- Biomass: Open Burning
- Domestic Biomass
- Coal: Domestic
- Coal: Powerplant
- Coal: Industrial
- Coal: Total
- All Ambient PM2.5

Scenario:
- STD (2013)
- BAU1 (2030)
- BAU2 (2030)
- PC1 (2030)
- PC2 (2030)
Age STD. Burden Attributable to Air PM: Sichuan

- **Transportation**
- **Solvent Use**
- **Industrial (non-coal)**
- **Biomass: Open Burning**
- **Domestic Biomass**
- **Coal: Domestic**
- **Coal: Powerplant**
- **Coal: Industrial**
- **Coal: Total**
- **All Ambient Pm2.5**

**Scenario**
- STD (2013)
- BAU1 (2030)
- BAU2 (2030)
- PC1 (2030)
- PC2 (2030)
Age STD. Deaths Attributable to Air PM: Tianjin
Age STD. Burden Attributable to Air PM: Tibet

The graph shows the burden attributable to air PM in Tibet, categorized by subsector, across different scenarios. The x-axis represents DALY Rate/100k, while the y-axis lists subsectors such as Transportation, Solvent Use, Industrial (non-coal), Biomass: Open Burning, Domestic Biomass, Coal: Domestic, Coal: Powerplant, Coal: Industrial, Coal: Total, and All Ambient Pm2.5. Different scenarios are indicated by various colors, including STD (2013), BAU1 (2030), BAU2 (2030), PC1 (2030), and PC2 (2030).
Age STD. Burden Attributable to Air PM: Xinjiang

- Transportation
- Solvent Use
- Industrial (non-coal)
- Biomass: Open Burning
- Domestic Biomass
- Coal: Domestic
- Coal: Powerplant
- Coal: Industrial
- Coal: Total
- All Ambient Pm2.5

Scenario:
- STD (2013)
- BAU1 (2030)
- BAU2 (2030)
- PC1 (2030)
- PC2 (2030)
Age STD. Deaths Attributable to Air PM: Yunnan

![Bar chart showing deaths attributable to various subsectors of air PM in Yunnan.]
Age STD. Deaths Attributable to Air PM: Zhejiang

Scenario
- STD (2013)
- BAU1 (2030)
- BAU2 (2030)
- PC1 (2030)
- PC2 (2030)

Death Rate/100k

Subsector
- Transportation
- Solvent Use
- Industrial (non-coal)
- Biomass: Open Burning
- Domestic Biomass
- Coal: Domestic
- Coal: Powerplant
- Coal: Industrial
- Coal: Total
- All Ambient Pm2.5

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Section 2

Estimated Chinese National and Province-Specific Numbers of Disability-Adjusted Life Years (DALYs) and Deaths Attributable to PM$_{2.5}$ by Air Pollution Source for All Ages for 2013 and Four Future Scenarios in 2030
Deaths Attributable to Air PM: Beijing

Subsector

- Transportation
- Solvent Use
- Industrial (non-coal)
- Biomass: Open Burning
- Domestic Biomass
- Coal: Domestic
- Coal: Powerplant
- Coal: Industrial
- Coal: Total
- All Ambient PM2.5

Scenario
- STD (2013)
- BAU1 (2030)
- BAU2 (2030)
- PC1 (2030)
- PC2 (2030)

Total Deaths

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Burden Attributable to Air PM: Fujian

Scenario

STD (2013)
BAU1 (2030)
BAU2 (2030)
PC1 (2030)
PC2 (2030)

subsector

Transportation
Solvent Use
Industrial (non-coal)
Biomass: Open Burning
Domestic Biomass
Coal: Domestic
Coal: Powerplant
Coal: Industrial
Coal: Total
All Ambient Pm2.5

All Age_Total_20_Page 11 of 66
Deaths Attributable to Air PM: Gansu

subsector

Total Deaths

Scenario

STD (2013)
BAU1 (2030)
BAU2 (2030)
PC1 (2030)
PC2 (2030)
Burden Attributable to Air PM: Guizhou

- Transportation
- Solvent Use
- Industrial (non-coal)
- Biomass: Open Burning
- Domestic Biomass
- Coal: Domestic
- Coal: Powerplant
- Coal: Industrial
- Coal: Total
- All Ambient Pm2.5

Scenario
- STD (2013)
- BAU1 (2030)
- BAU2 (2030)
- PC1 (2030)
- PC2 (2030)
Burden Attributable to Air PM: Hunan

Scenario
- STD (2013)
- BAU1 (2030)
- BAU2 (2030)
- PC1 (2030)
- PC2 (2030)

subsector
- Transportation
- Solvent Use
- Industrial (non-coal)
- Biomass: Open Burning
- Domestic Biomass
- Coal: Domestic
- Coal: Powerplant
- Coal: Industrial
- Coal: Total
- All Ambient PM2.5

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Deaths Attributable to Air PM: Inner Mongolia

![Graph showing deaths attributable to air PM in Inner Mongolia.](image-url)
Deaths Attributable to Air PM: Jiangsu

![Graph showing deaths attributable to air PM by subsector and scenario.](image)
Burden Attributable to Air PM: Jiangxi

Scenario
STD (2013)
BAU1 (2030)
BAU2 (2030)
PC1 (2030)
PC2 (2030)

subsector
Transportation
Solvent Use
Industrial (non-coal)
Biomass: Open Burning
Domestic Biomass
Coal: Domestic
Coal: Powerplant
Coal: Industrial
Coal: Total
All Ambient Pm2.5

Total DALYs

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Deaths Attributable to Air PM: Liaoning

Scenario:
- STD (2013)
- BAU1 (2030)
- BAU2 (2030)
- PC1 (2030)
- PC2 (2030)

Subsector:
- Transportation
- Solvent Use
- Industrial (non-coal)
- Biomass: Open Burning
- Domestic Biomass
- Coal: Domestic
- Coal: Powerplant
- Coal: Industrial
- Coal: Total
- All Ambient PM2.5

Total Deaths

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Deaths Attributable to Air PM: Qinghai

Scenario
- STD (2013)
- BAU1 (2030)
- BAU2 (2030)
- PC1 (2030)
- PC2 (2030)

subsector
- Transportation
- Solvent Use
- Industrial (non-coal)
- Biomass: Open Burning
- Domestic Biomass
- Coal: Domestic
- Coal: Powerplant
- Coal: Industrial
- Coal: Total
- All Ambient PM2.5

Total Deaths

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Deaths Attributable to Air PM: Shaanxi

The chart shows the total deaths attributed to various subsectors of air pollution in Shaanxi, China. The subsectors include:
- Transportation
- Solvent Use
- Industrial (non-coal)
- Biomass: Open Burning
- Domestic Biomass
- Coal: Domestic
- Coal: Powerplant
- Coal: Industrial
- Coal: Total
- All Ambient Pm2.5

The scenarios represented are:
- STD (2013)
- BAU1 (2030)
- BAU2 (2030)
- PC1 (2030)
- PC2 (2030)

The x-axis represents the total deaths, ranging from 0 to 30,000, while the y-axis lists the subsectors.
Burden Attributable to Air PM: Shandong

- Transportation
- Solvent Use
- Industrial (non-coal)
- Biomass: Open Burning
- Domestic Biomass
- Coal: Domestic
- Coal: Powerplant
- Coal: Industrial
- Coal: Total
- All Ambient Pm2.5

Scenario:
- STD (2013)
- BAU1 (2030)
- BAU2 (2030)
- PC1 (2030)
- PC2 (2030)
Deaths Attributable to Air PM: Tibet

- Transportation
- Solvent Use
- Industrial (non-coal)
- Biomass: Open Burning
- Domestic Biomass
- Coal: Domestic
- Coal: Powerplant
- Coal: Industrial
- Coal: Total
- All Ambient Pm2.5

Scenario: Std (2013), BAU1 (2030), BAU2 (2030), PC1 (2030), PC2 (2030)
Burden Attributable to Air PM: Xinjiang

Scenario
- STD (2013)
- BAU1 (2030)
- BAU2 (2030)
- PC1 (2030)
- PC2 (2030)

Subsector:
- Transportation
- Solvent Use
- Industrial (non-coal)
- Biomass: Open Burning
- Domestic Biomass
- Coal: Domestic
- Coal: Powerplant
- Coal: Industrial
- Coal: Total
- All Ambient Pm2.5

Total DALYs
Deaths Attributable to Air PM: Xinjiang

All subsectors are shown in the graph, including Transportation, Solvent Use, Industrial (non-coal), Biomass: Open Burning, Domestic Biomass, Coal: Domestic, Coal: Powerplant, Coal: Industrial, Coal: Total, and All Ambient PM2.5. The graph displays the total deaths attributable to air PM across different scenarios and subsectors for Xinjiang.
Burden Attributable to Air PM: Yunnan

- Transportation
- Solvent Use
- Industrial (non-coal)
- Biomass: Open Burning
- Domestic Biomass
- Coal: Domestic
- Coal: Powerplant
- Coal: Industrial
- Coal: Total
- All Ambient PM2.5

Total DALYs

Scenario:
- STD (2013)
- BAU1 (2030)
- BAU2 (2030)
- PC1 (2030)
- PC2 (2030)
Deaths Attributable to Air PM: Yunnan

Scenario:
- STD (2013)
- BAU1 (2030)
- BAU2 (2030)
- PC1 (2030)
- PC2 (2030)

Subsector:
- Transportation
- Solvent Use
- Industrial (non-coal)
- Biomass: Open Burning
- Domestic Biomass
- Coal: Domestic
- Coal: Powerplant
- Coal: Industrial
- Coal: Total
- All Ambient PM2.5

Total Deaths

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Deaths Attributable to Air PM: Zhejiang