

HEALTHFX

HEALTH CO-BENEFITS OF GREEN BUILDINGS

HOW DO WE IMPROVE HEALTH, REDUCE ENVIRONMENTAL IMPACTS AND LOWER OPERATING COSTS?

New research from the Harvard T.H. Chan School of Public Health says green-certified buildings are the answer.

GREEN-CERTIFIED BUILDINGS: ENERGY, HEALTH AND CLIMATE BENEFITS

AT THE COUNTRY LEVEL

FOR EVERY
\$100
SAVED ON
ENERGY² IN THE U.S.

ANOTHER
59¢
IS SAVED
IN HEALTH AND CLIMATE
BENEFITS^{3,4}

UNITED STATES

AT THE BUILDING LEVEL



ENERGY SAVINGS

GREEN-CERTIFIED BUILDINGS SAVE \$4.66 PER SQUARE METER



HEALTH AND CLIMATE COST SAVINGS

AND \$2.73 PER SQUARE METER IS GAINED IN HEALTH AND CLIMATE COST SAVINGS



TOTAL SAVINGS

FOR A TOTAL BENEFIT OF \$7.39 OF SAVINGS PER SQUARE METER

THE IMPACT: UNITED STATES

COMPARED TO "CONVENTIONAL COMMERCIAL BUILDINGS,"¹ THE GREEN-CERTIFIED BUILDINGS STUDIED SAVED

\$6.7B
IN ENERGY COSTS⁵

PLUS AN ADDITIONAL

\$4B

IN COMBINED HEALTH AND CLIMATE BENEFITS:

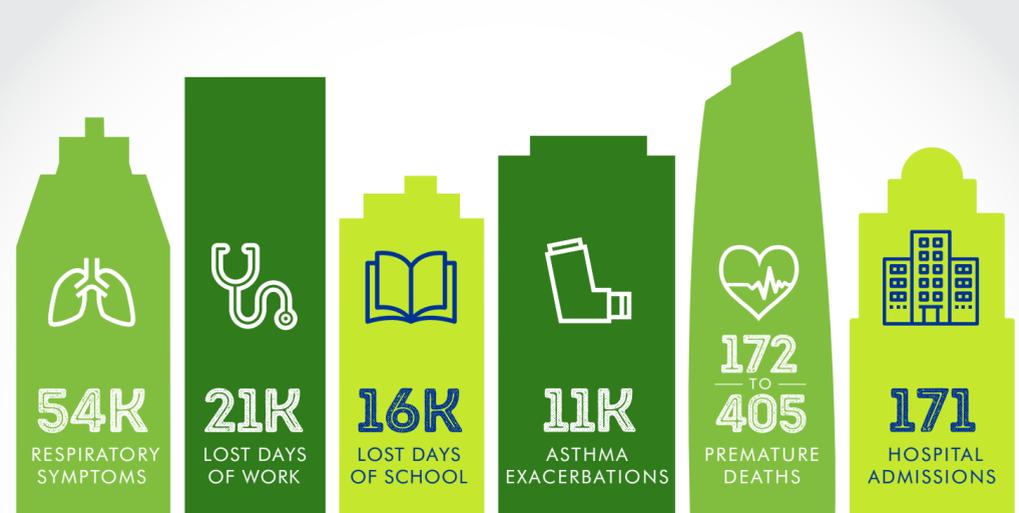
\$1.3B
FROM AVERTING NEGATIVE IMPACTS OF CLIMATE CHANGE³

\$2.7B
FROM REDUCTIONS IN AIR POLLUTION RESULTING IN FEWER DEATHS, HOSPITAL VISITS, LOST DAYS OF WORK AND SCHOOL, AND MORE⁴

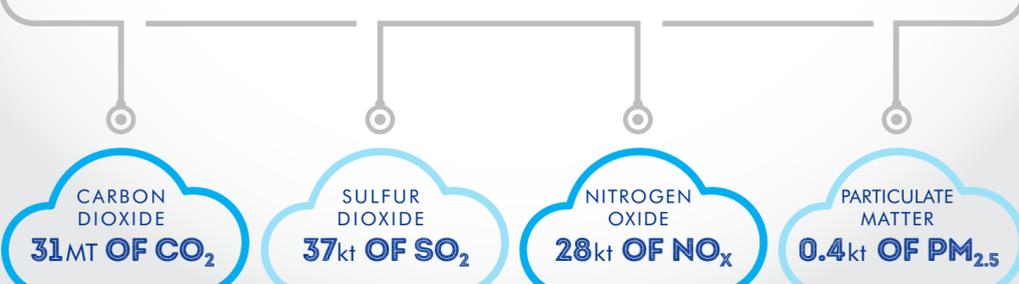
FOR A TOTAL BENEFIT OF
\$10.7B SAVED

FROM 2000-2016⁶

IN THE U.S., GREEN BUILDINGS PREVENTED:



GREEN BUILDINGS AND THEIR ENERGY-EFFICIENT TECHNOLOGIES WERE ABLE TO PREVENT THE FOLLOWING FROM ENTERING THE ATMOSPHERE:



#THEHEALTHFXSTUDY

To learn more about the health co-benefits of green-certified buildings, visit:

THEHEALTHFXSTUDY.COM

1 2016 USD, LEED® buildings 2000-2016.

2 All the obtained cost-saving dollar values were converted into 2016 USD, adjusted by the annual Consumer Price Index (CPI) of U.S. city average. BLS, CPI Databases. 2017, Bureau of Labor Statistics.

3 Includes carbon dioxide, methane and nitrous oxide and their associated climate damages. These are economic benefits associated with avoiding the negative consequences of climate change – such as the spread of disease and coastal damage.

4 Includes public health impacts from exposure to ozone and PM_{2.5}, including deaths, hospitalizations and asthma attacks avoided.

5 Energy cost savings were calculated based on the prices for each energy type.

6 The study analyzed LEED-certified buildings in the United States, Brazil, Mainland China, Germany, India and Turkey. This accounts for 82% of LEED buildings, and 30% of all green-certified buildings.