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

FOR EVERY $100 SAVED ON ENERGY, $82 IS SAVED IN HEALTH AND CLIMATE BENEFITS.

INDIA

$72M IN ENERGY COST SAVINGS

$31.30 PER SQUARE METER IS GAINED IN HEALTH AND CLIMATE COST SAVINGS

$882M IN COMBINED HEALTH AND CLIMATE BENEFITS:

FROM AVERTING NEGATIVE IMPACTS OF CLIMATE CHANGE

FROM REDUCTIONS IN AIR POLLUTION RESULTING IN FEWER DEATHS, HOSPITAL VISITS, LOST DAYS OF WORK AND SCHOOL, AND MORE

THE IMPACT: INDIA

$954M SAVED FROM 2000-2016

$82M FROM CONVENTIONAL COMMERCIAL BUILDINGS,

THE GREEN-CERTIFIED BUILDINGS STUDIED SAVED $72M IN ENERGY COSTS.

$39M FROM AVOIDING HEATLOADS OF CLIMATE CHANGES

$843M FROM REDUCTIONS IN AIR POLLUTION RESULTING IN IMPROVEMENTS IN HEART, LUNG, AND BRAIN HEALTH, COST SAVINGS OF WORK AND SCHOOL, AND MORE

To learn more about the health co-benefits of green-certified buildings, visit THEHEALTHFXSTUDY.COM


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.

Includes public health impacts from exposure to ozone and PM 2.5, including deaths, hospitalizations and asthma attacks avoided.

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

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.

Additional energy savings, health and climate benefits estimated for each square meter.

RESEARCH CREDITS


Primary support for the study came from United Technologies and its UTC Climate, Controls & Security business.

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MACNAUGHTON, PEDRO

CITATION

TAC, 2017

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