



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 BUILDING LEVEL





BUILDINGS SAVE \$14.30 PER SQUARE METER

COMPARED TO "CONVENTIONAL

COMMERCIAL BUILDINGS,"1

GREEN-CERTIFIED





COST SAVINGS

HEALTH AND CLIMATE

AND \$11 PER SQUARE METER IS GAINED IN HEALTH AND CLIMATE COST SAVINGS

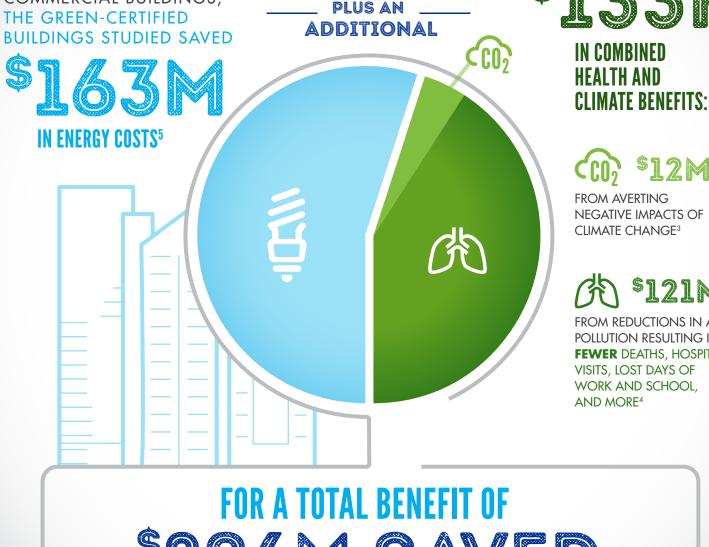


TOTAL **SAVINGS**

FOR A TOTAL BENEFIT

OF \$25.30 OF SAVINGS PER SQUARE METER

THE IMPACT: TURKEY



\$133h IN COMBINED **HEALTH AND**

> FROM AVERTING **NEGATIVE IMPACTS OF**

FROM REDUCTIONS IN AIR

POLLUTION RESULTING IN FEWER DEATHS, HOSPITAL

WORK AND SCHOOL, AND MORE⁴

\$296M SAVED FROM 2000-20166

#THEHEALTHFXSTUDY

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

THEHEALTHFXSTUDY.COM

1 2016 USD, LEED® buildings 2000-2016.

- 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.

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

- 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
- MacNaughton P, Cao X, Buonocore J, Cedeno-Laurent J, Spengler J, Bernstein A, and Allen J. Energy Savings, Emission Reductions, and Health Co-Benefits

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