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ACCELERATING BUILDING EFFICIENCY

Eight Actions for Urban Leaders

In partnership with

Johnson
Controls



EFFICIENT BUILDINGS: A HUGE OPPORTUNITY FOR CITIES

60% of the 2030 global building stock is yet to be built, with the most new construction in developing countries like China and India (UNFCCC)

Buildings account for 32% of global energy use (IEA)

80% of the opportunity for building efficiency will remain untapped without action (NCE Cities Report)

Building efficiency has the largest GHG emissions savings potential for the lowest cost (IPCC)

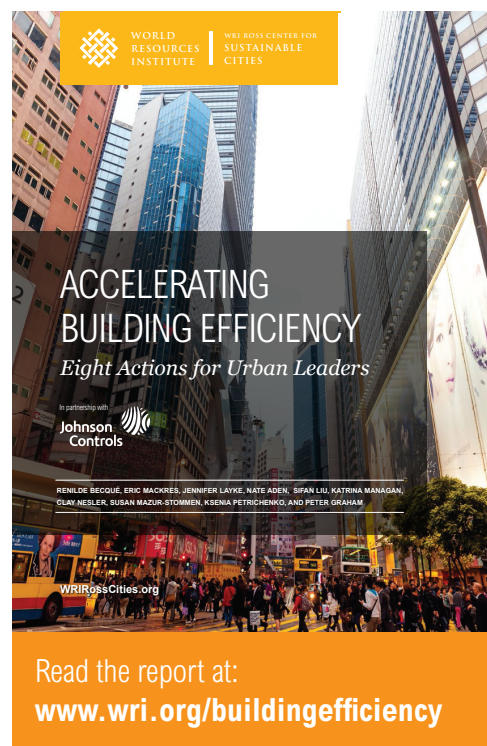
The potential for economic benefit to cities from building efficiency is 6 trillion U.S. dollars by 2050 (NCE Cities Report)

EIGHT ACTIONS FOR URBAN LEADERS:

- 1. Building efficiency codes and standards:** Cities are built upon a foundation of building codes. Well-designed codes and standards requiring minimum levels of energy efficiency in design, construction and/or operation of building systems can cost-effectively decrease energy expenses over buildings' lifetimes.
- 2. Efficiency improvement targets:** Local governments must set clear energy reduction targets to improve building performance across cities, or at least in government-owned buildings. Governments can also introduce voluntary targets to incentivize private sector action.
- 3. Performance information and certifications:** The market can function if there is clear data differentiating performance. Increasing the transparency of building performance enables building owners, managers, and occupants to make informed real estate transactions, improve building performance, and track performance against targets.
- 4. Incentives and finance:** City-level leaders have opportunities to make strategic investments in building efficiency, and can work with national and private sector financial institutions to help overcome inertia and spur new investment in buildings. Financing to help cover upfront costs can spark greater investment.
- 5. Government leadership by example:** Successful government policies in one city should be shared among other urban areas to improve building efficiency while creating greater demand and acceptance for building efficiency.
- 6. Engaging building owners, managers and occupants:** Local governments should engage private-sector building owners and occupants through partnerships, competitions and awards, user-feedback, and energy management activities.
- 7. Engaging technical and financial service providers:** Training the local workforce to implement energy reduction strategies by engaging service providers enables them to meet demand for building efficiency projects and create good jobs.
- 8. Working with utilities:** Governments can tap utility-customer relationships to improve access to energy usage data and support utility efforts to increase efficiency by providing customers the best equipment at the lowest cost.

ABOUT THE REPORT

Accelerating Building Efficiency: Eight Recommendations for Urban Leaders is a practical guide that enables decision makers to improve the efficiency of buildings in their cities. Developed with Johnson Controls and a dozen other partners, the report offers eight clear and specific recommendations to unlock building efficiency. It presents a politically smart, common-sense approach that will help usher in a new era of better buildings suited for the 21st century.



Sources:

NCE: <http://2014.newclimateeconomy.report/cities/>

IEA: <http://www.worldenergyoutlook.org/weo2013/>

UNFCCC: <http://newsroom.unfccc.int/unfccc-newsroom/inspiring-examples-of-energy-efficiency-in-urban-environments/>

IPCC: https://www.ipcc.ch/publications_and_data/ar4/syr/en/mains4-3.html

ABOUT WRI ROSS CENTER FOR SUSTAINABLE CITIES

WRI Ross Center for Sustainable Cities works to make urban sustainability a reality. Global research and on-the-ground experience in Brazil, China, India, Mexico, Turkey and the United States combine to spur action that improves life for millions of people.

Based on longstanding global and local experience in urban planning and mobility, WRI Sustainable Cities uses proven solutions and action-oriented tools to increase building and energy efficiency, manage water risk, encourage effective governance and make the fast-growing urban environment more resilient to new challenges.

Aiming to influence 200 cities with unique research and tools, WRI Sustainable Cities focuses on a deep cross-sector approach in four megacities on two continents, and targeted assistance to 30 more urban areas, bringing economic, environmental and social benefits to people in cities around the globe.

THE BUILDING EFFICIENCY INITIATIVE

The Building Efficiency Initiative combines Johnson Controls' expertise as the global leader in providing building efficiency solutions with the World Resources Institute's research excellence and on-the-ground experience in creating more prosperous and livable cities.

www.buildingefficiencyinitiative.org

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