

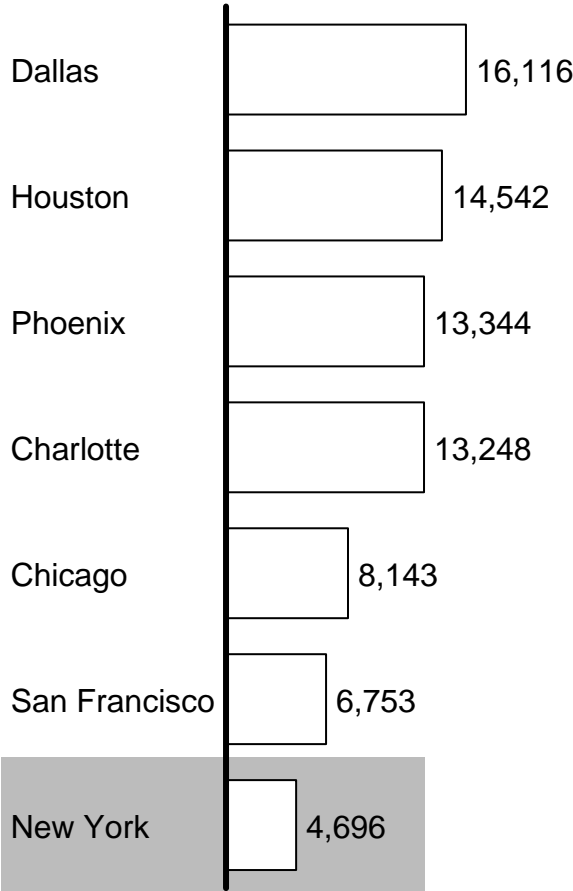
# Long-Term Sustainability Planning

CITY OF NEW YORK

December 4, 2006

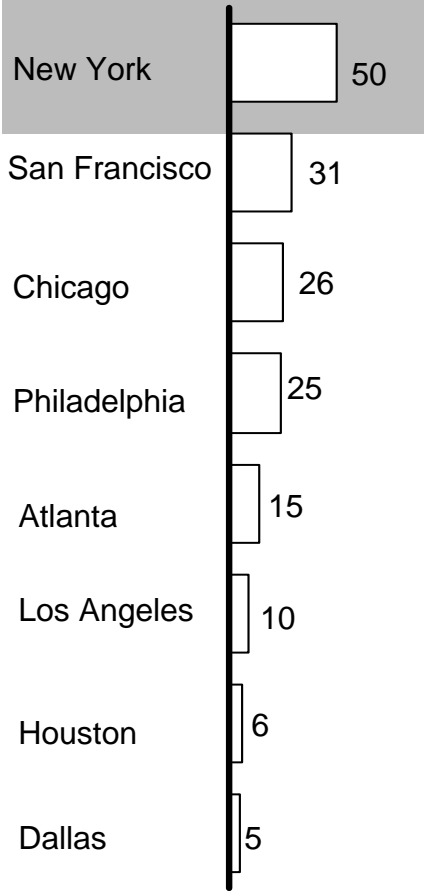
# BY MANY MEASURES, NEW YORK CITY IS ALREADY THE MOST SUSTAINABLE BIG CITY IN AMERICA

**Per capita residential energy consumption**  
KWh/customer



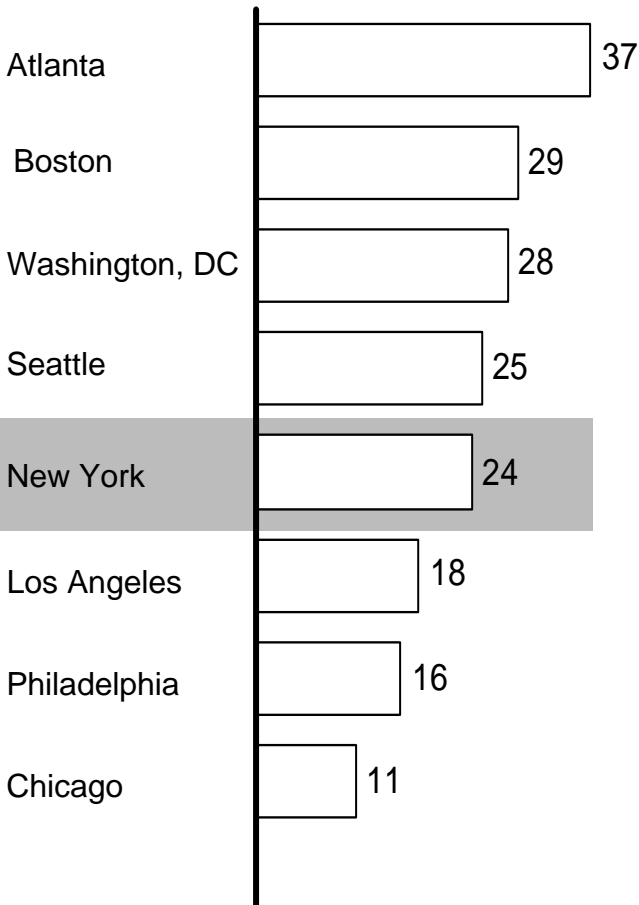
Note: Utility customer base serves as proxy for city  
Source: Energy velocity and team analysis

**Public Transit share of work trips**  
Percent



Source: Census 2000 Summary File 3 (SF 3)  
- Sample Data

**Tree canopy coverage**  
Percent



Note: National average for cities is 27%  
Source: NYC Department of Parks and Recreation

# NYC IS ALREADY MOVING ON A RANGE OF GREEN EFFORTS

## **We have pioneered measures to preserve our environment**

- Best and most extensive public transportation system
- First green skyscraper and soon the greenest skyscraper
- First to ban second-hand smoke in public places
- Installation of LED stoplights
- City-wide leader in water quality and conservation through the Staten Island Blue Belt

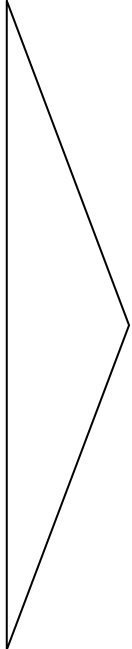
## **...and recent new laws continue this momentum**

- Solid Waste Management Plan transitioning waste transport from truck to barge/rail
- Groundbreaking new legislation (LL86) that holds public and many private buildings to stringent building and energy conservation standards
- Comprehensive Environmentally Preferable Purchasing act passed this year will require more responsible purchasing

# OFFICE OF LONG TERM PLANNING AND SUSTAINABILITY RESULTED FROM THE MERGER OF EFFORTS

<b>Long-term plan</b>
<ul style="list-style-type: none"><li>• Plan for growth<ul style="list-style-type: none"><li>–8.2-9.1 million in 2030</li><li>–700,000 new jobs</li><li>–50% increase in visitors</li></ul></li><li>• Focus on land use, transportation</li></ul>

<b>Interagency sustainability task force</b>
<ul style="list-style-type: none"><li>• Begin understanding “sustainability”</li><li>• Address both city wide and municipal operations opportunities</li><li>• Focus on energy, water, land use, waste, and transportation</li></ul>



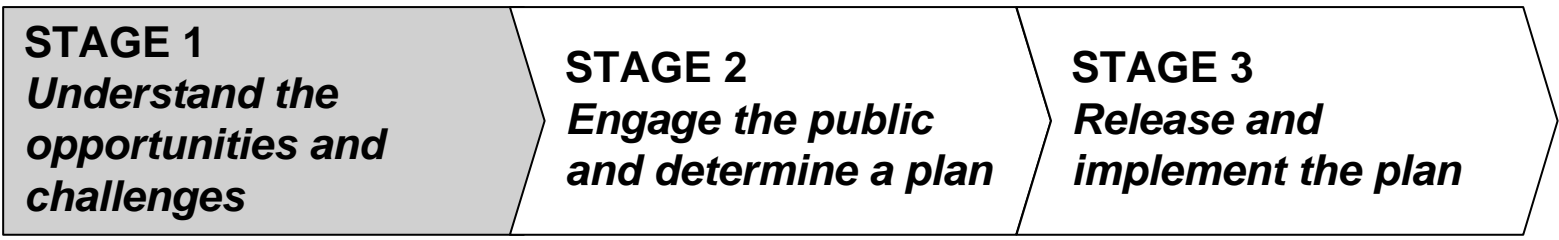
- Realization that long-term planning **is** sustainability planning
- Creation of office to focus on long-term and sustainability
- Commitment to create sustainability advisory board to test ideas and gather suggestions

# OFFICE OF LONG TERM PLANNING & SUSTAINABILITY

Focus
<ul style="list-style-type: none"><li>• <b>The mission is three-fold:</b><ul style="list-style-type: none"><li>– Develop the City’s long-term plan</li><li>– Integrate sustainability goals and practices into that plan</li><li>– Make New York City government a “green” organization</li></ul></li><li>• <b>Two main thrusts of current activity</b><ul style="list-style-type: none"><li>– Shows the commitment to sustainability</li><li>– Shows the City leading by example</li></ul></li><li>• <b>Once a plan is formulated, the office will track, measure, and report the city’s performance</b></li></ul>

Organization
<ul style="list-style-type: none"><li>• Within Mayor’s Office of Operations</li><li>• Reports to the Deputy Mayor for Economic Development and Rebuilding</li><li>• Staff<ul style="list-style-type: none"><li>– Director</li><li>– Senior Policy Advisors on Sustainability (3)<ul style="list-style-type: none"><li>– Green Architect</li><li>– Energy Expert</li><li>– Greenhouse Gas Expert</li></ul></li><li>– Senior Policy Advisor on Transportation</li><li>– Senior Policy Advisor on Communications</li><li>– Policy Analysts (2)</li></ul></li></ul>

# CREATING AN EFFECTIVE AND EFFICIENT TIMELINE WILL BE ESSENTIAL TO THE SUCCESSFUL IMPLEMENTATION OF A PLAN



<b>Timing</b>	Three months	Two-three months	TBD
<b>Goals for the stage</b>	<ul style="list-style-type: none"> <li>• Identify sustainability principles and goals</li> <li>• Understand and document challenges</li> <li>• Explore a wide range of potential solutions</li> <li>• Publicly announce sustain-ability program and contextualize within long-term plan</li> </ul>	<ul style="list-style-type: none"> <li>• Engage public beyond the Advisory Board through outreach programs including Mayoral events</li> <li>• Solicit feedback from public on potential solutions</li> <li>• Develop a plan with further analysis and public input</li> <li>• Reconvene Advisory Board to discuss public impact and emerging plan</li> </ul>	<ul style="list-style-type: none"> <li>• Articulate and publicize the plan as well as how people can get involved</li> <li>• Create process to evaluate progress towards goals</li> <li>• Aggregate initiative timelines to show city's progress on overall goals</li> </ul>

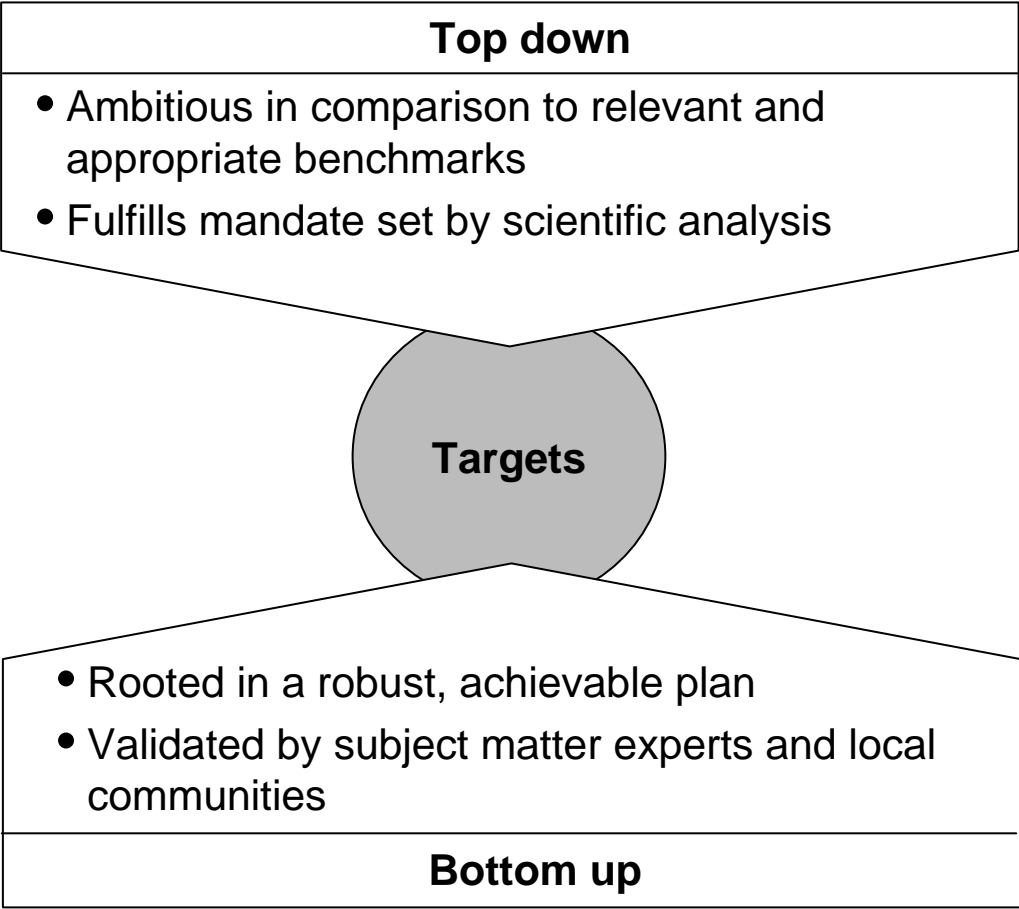
# A SERIOUS PLAN WILL REQUIRE VISIONARY GOALS, MEASURABLE TARGETS AND THOUGHTFUL PLANS



- |   |   |   |
|---|---|---|
| <ul style="list-style-type: none"> <li>• Articulate the vision</li> <li>• Rally public support</li> </ul> | <ul style="list-style-type: none"> <li>• Specific</li> <li>• Measurable</li> <li>• Actionable</li> <li>• Science-based</li> </ul> | <ul style="list-style-type: none"> <li>• Specific steps needed to achieve the target</li> </ul> |
|---|---|---|

- |                |   |  |  |
|----------------|---|--|--|
| <b>Example</b> | <ul style="list-style-type: none"> <li>• Improve public safety</li> </ul> | <ul style="list-style-type: none"> <li>• Reduce crime by x% by 2004</li> </ul> | <ul style="list-style-type: none"> <li>• Develop crime prevention programs</li> <li>• Increase police presence</li> <li>• Implement Comstat incident tracking program</li> </ul> |
|----------------|---|--|--|

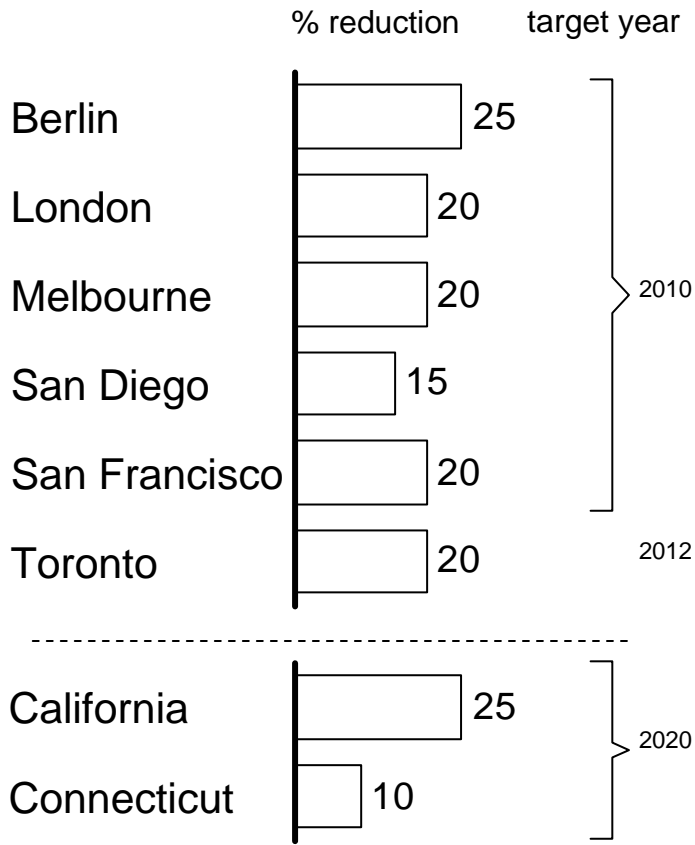
# WORKING WITH THE ADVISORY BOARD, WE HAVE SET GOALS AND TARGETS ACCORDING TO A STANDARD OF “AMBITIOUS BUT ACHIEVABLE”



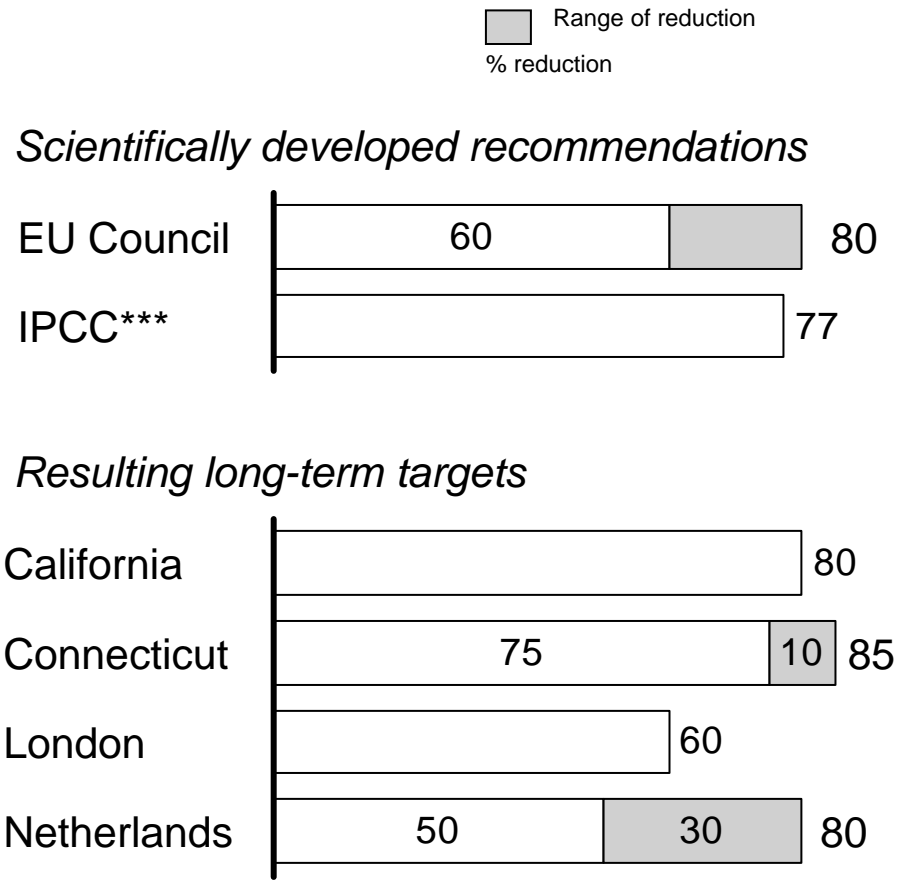


# SCIENTIFIC, COMMUNITY AND OTHER JURISDICTIONS ON CO<sub>2</sub> ESTABLISHED RANGE OF TOP-DOWN TARGETS

Many areas have set short-term reduction targets of around 20%\* ...



...however, long-term targets are significantly higher, ranging from 50-85%\*\*



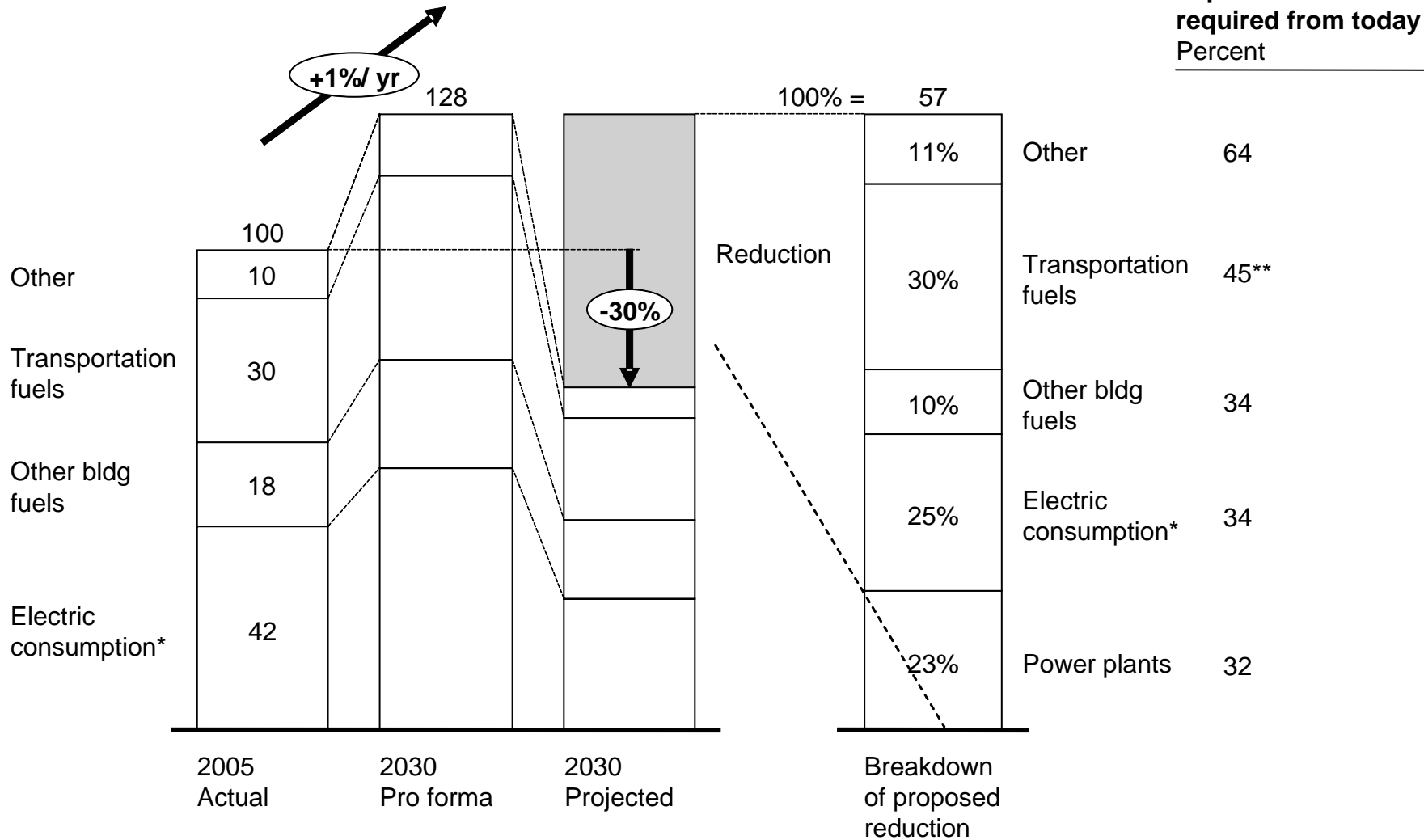
\* All reduction are off 1990 levels, except Melbourne (1996), CA, (unknown)

\*\* CT, EU Environmental Council are off 1990 levels, IPCC, CA, Netherlands (unknown), London (2000),

\*\*\* By 2100

# THESE WERE THEN TESTED FOR ACHIEVABILITY

WHAT WOULD IT TAKE TO ACHIEVE A TARGET OF 30%



\* Electric consumption assumed as all buildings. Two levers affect electricity: the emissions created by production and the demand which causes production

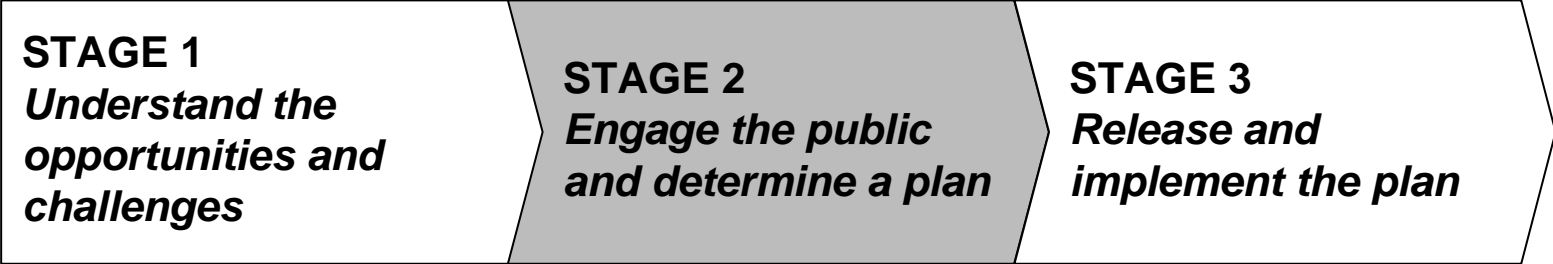
\*\* Transportation reduction is off of 2030, rather than 2005 as it includes assumptions about all vehicles

# THE ADVISORY BOARD HAS UNDERTAKEN TREMENDOUS WORK TO REFINE THOSE CHALLENGES AND EXPLORE SOLUTIONS

SAB organization
<ul style="list-style-type: none"> <li>• Sustainability Advisory Board appointed Sept 21 with 17 members, plus relevant agencies and Columbia Earth Institute participation</li> <li>• Full SAB meetings on Sept 28, Oct 18, Nov 8, and Nov 29</li> <li>• Working group meetings biweekly on 7 subtopics</li> <li>• Break during December, to reconvene in January</li> </ul>

Goals for the SAB	Results
<ul style="list-style-type: none"> <li>• Leverage expertise of members to clarify and document challenges (e.g., sea level rise)</li> <li>• Define goals and test targets for ambition and achievability</li> <li>• Gather ideas for potential solutions and begin assessing</li> <li>• React to draft plans/ideas</li> </ul>	<ul style="list-style-type: none"> <li>• Done</li> <li>• Done – final confirmation expected on November 29</li> <li>• Underway in working groups</li> <li>• Focus for Jan/Feb meetings</li> </ul>

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# CITY AND ADVISORY BOARD MUST WORK TOGETHER TO EXPLAIN THE CHALLENGES AND THE NEED FOR A PLAN

## City role

- Mayoral speech to announce the challenges with panel discussion
- Distribution of brochure
- Meetings organized by Advisory Board Members for their constituents
- Town hall meetings
- Further meetings with AB members' constituents as well as other groups
- Potential follow-on mayoral event(s)
- Council hearings?

## Advisory Board role

- Send out emails to lists to generate hits to the website
- Organize briefings for boards or members for City presentations
- Participate in town hall meetings to help gauge public reaction
- Act as surrogate speakers for the Mayor's office to speak with community boards or community groups
- Submit op-eds and letters to the editor to newspapers
- Provide feedback to City about public concerns