City of Phoenix

DEVELOPMENT OF 2050 SUSTAINABILITY GOALS & TARGETS

Phoenix City Council
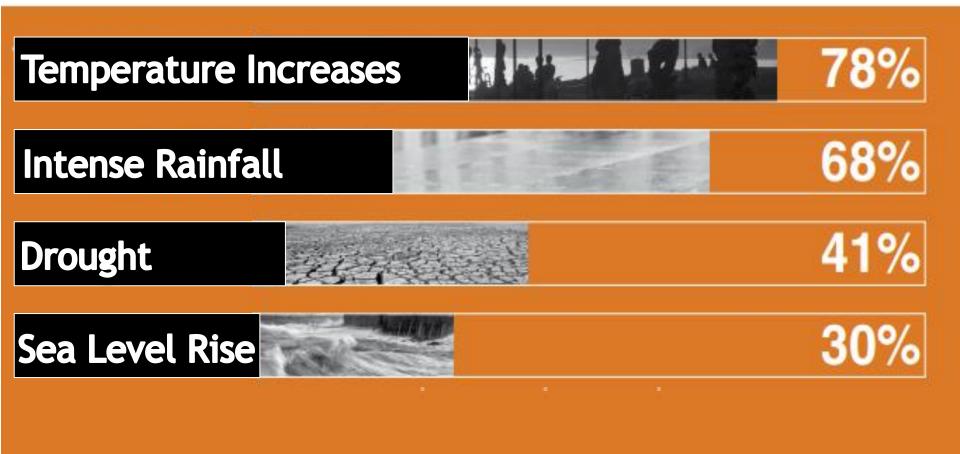## January 27, 2015

Sustainability Context

FOREST land

GRAZING land

URBAN land

ENERGY land

CROP land

FISHING land

Percent of cities experiencing weather events:

Temperature Increases — 78%

Intense Rainfall — 68%

Drought — 41%
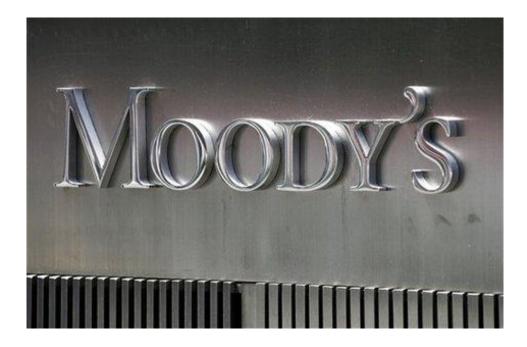
Sea Level Rise — 30%

A Role for Cities

Benefits of Sustainability Goals

- Businesses choosing Sustainable Cities

- Global investors including sustainability criteria in credit ratings and investments
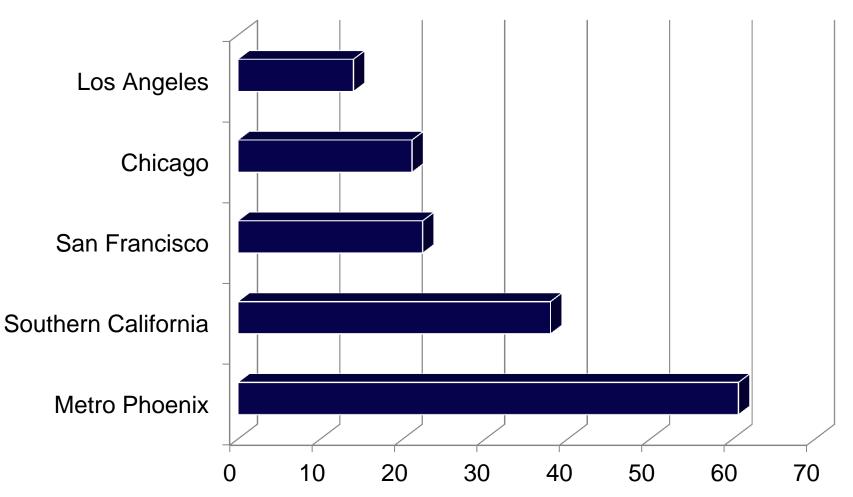
"Stretch Targets" lead to innovation and significant cost reductions.

Examples of Phoenix Innovation

Millions of Gallons of Petroleum Saved - 2013
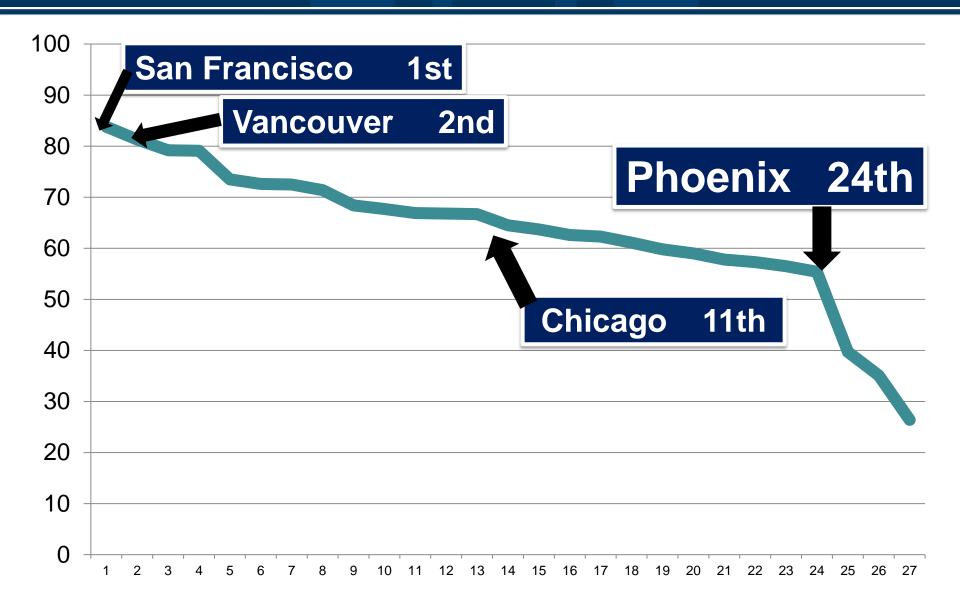
Examples of Phoenix Innovation

- Green graffiti products

Economist Intelligence Unit Ranking

2013 ACEEE City Ranking

City Scorecard Rank
5 Seattle, WA

City Scorecard Rank
2 Portland, OR

City Scorecard Rank
1 Boston, MA

City Scorecard Rank
3 New York City

City Scorecard Rank
15 Phoenix, AZ

Austin #6 62

ACEEE
American Council for an Energy-Efficient Economy
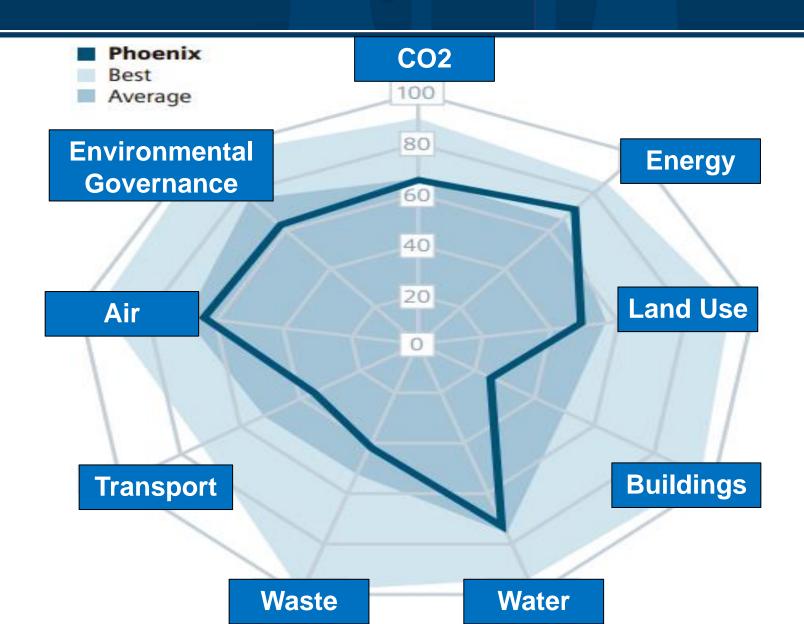
How do we compare?

How do we compare?

Met or exceeded the average in:

- Greenhouse Gases

- Energy

- Water

Leader in Water Innovation

- Groundwater Management
- Tucson Storage
- Colorado River Resiliency Fund
- Tres Rios Wetlands

Action Underway
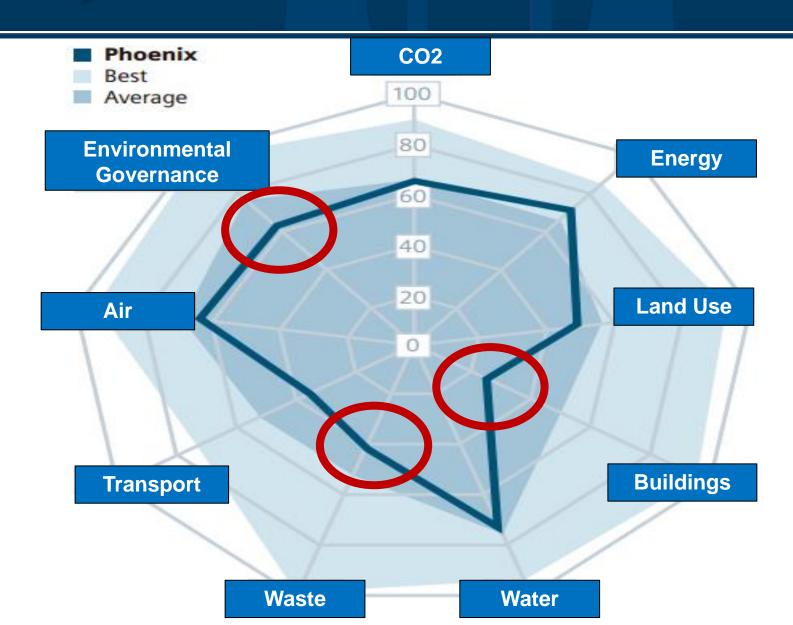
- PlanPHX General Plan Update

- Reimagine Phoenix

- GR:D and transportation plan

Key Action Areas

Legend:
- Phoenix
- Best
- Average

Axis labels (clockwise from top): CO2, Energy, Land Use, Buildings, Water, Waste, Transport, Air, Environmental Governance

Scale: 0, 20, 40, 60, 80, 100
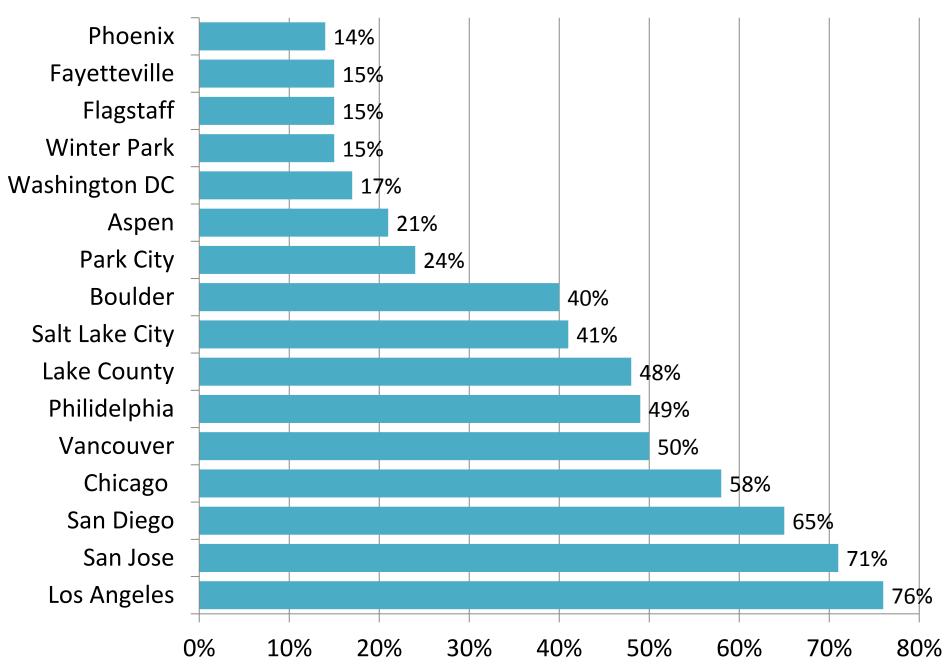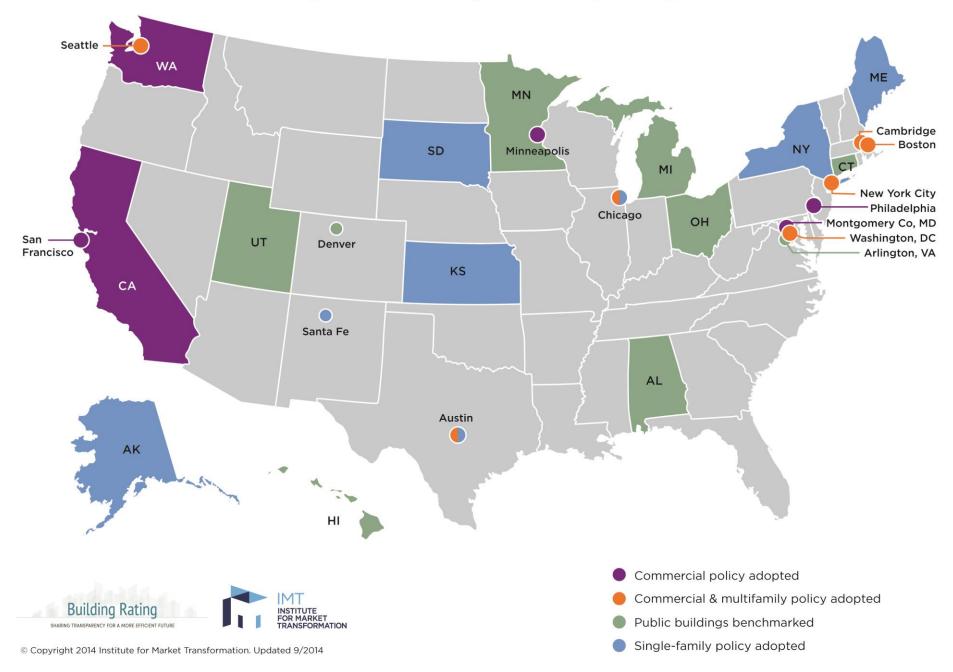
Current Waste Diversion Rates (Self reported)

City	Rate
Phoenix	14%
Fayetteville	15%
Flagstaff	15%
Winter Park	15%
Washington DC	17%
Aspen	21%
Park City	24%
Boulder	40%
Salt Lake City	41%
Lake County	48%
Philidelphia	49%
Vancouver	50%
Chicago	58%
San Diego	65%
San Jose	71%
Los Angeles	76%

U.S. Building Benchmarking and Transparency Policies

Seattle

WA

ME

MN

SD

Minneapolis

Cambridge
Boston

NY

CT

MI

New York City

Philadelphia

San
Francisco

UT

Denver

OH

Montgomery Co, MD

Washington, DC

Arlington, VA

CA

KS

Santa Fe

AL

Austin

AK

HI

Legend:

- Commercial policy adopted
- Commercial & multifamily policy adopted
- Public buildings benchmarked
- Single-family policy adopted

Building Rating
SHARING TRANSPARENCY FOR A MORE EFFICIENT FUTURE

IMT
INSTITUTE FOR MARKET TRANSFORMATION

Key Actions to improve ranking

REQUESTED COUNCIL ACTION TODAY:

- Begin process to set long-term goals

FOR CONSIDERATION LATER IN 2015:

- Building Energy Benchmarking Ordinance
- Energy efficiency in Building Code
- Accelerate Waste Diversion

Project proposed

Issue RFP to replace 90,000 streetlights, saving $1 million/year for 15 years.

Recommendation

(a) As recommended by the FEES Subcommittee:

- Direct staff to **develop 2050 sustainability goals** and interim targets; and,
- Direct staff to pursue additional LED lighting projects at Sky Harbor Airport.

(b) Approval to **issue an RFP** to obtain LED Streetlight Replacement proposals.

Proposed PHX2050 Goal and Interim Target Process

Formation of TASK FORCE

Draft Goals & Targets for Internal Discussion

Internal Working Groups
EQC / Advisory Groups

Draft PHX2050 Goals

Public Engagement

Final 2050 Goals for Council Approval

April 2015 Draft?

October 2015 Council?

March 2016 Council?

Sample Goal Categories & Possible Goal Owners

Owner: Kathryn Sorensen
- Water Quality
- Conservation
- Stormwater
- Wastewater

Owner: John Trujillo
- Waste Diversion
- Waste Reduction
- Sustainable Purchasing

Owner: Maria Hyatt
- Modeshare
- Bike Lanes
- Alternative Fuel
- Complete Streets

Owner: Christine Mackay
- Local Food Access
- Local Food Production
- Green Development
- Green Jobs
- Greening Businesses

Owner: Alan Stephenson
- Green Buildings
- Energy Conservation
- Brownfields & Infill
- Canal Development
- Jobs in Urban Villages

Owner: Jim Burke
- Rivers and Washes
- % of Pop'n close to parks
- Miles of connected trails
- Tree and shade canopy

Owner: Joe Giudice
- Meets or Exceeds
- State or Federal Standards
- World Health Org Standards

Owner: Mark Hartman
- Civic Building Code
- Civic Energy Use
- Civic Renewable Energy

Wheel categories: Water, Waste, Green Economy and Local Food, Parks and Open Spaces, Lead by Example, Air Quality, Buildings & Land Use, Transportation

PHX2050