ONEPGH: PITTSBURGH’S PLANS TO BECOME A MORE RESILIENT CITY

Grant Ervin, Chief Resilience Officer
City of Pittsburgh
Resilience Strategy
Pittsburgh Climate Goals

2030 GOALS:

CITY OPERATIONS

- 100% renewable elect.
- 100% fossil fuel free fleet
- Divestment of City pensions

CITY OF PITTSBURGH

- 50% energy & water use
- 50% transport emission
- Zero waste

TOTAL EMISSION REDUCTIONS:

20% GHG Reduction by 2023
50% GHG Reduction by 2030
80% GHG Reduction by 2050
American Cities Climate Challenge

Objective
Emissions reduction targets

- ↓50% by 2030

- 100% clean electricity

Strategies

LOWER ENERGY CONSUMPTION
by improving renewable financing options and energy efficiency codes

REDUCE EMISSIONS FROM TRANSPORTATION
by improving public transit and pedestrian conditions

Goals

- Implement and prioritize district energy systems
- Electric vehicle charging in municipally owned parking lots
- Community solar projects or other local renewable energy initiatives at scale
- New financing programs for energy efficiency, renewables, and infrastructure
- Benchmarking, audit, and retro-commissioning (RCx) policies for existing buildings
- Incentives and demonstration projects for building decarbonization with a focus on City facilities
- Electrify city fleets and buses
- Improve access to charging infrastructure and encourage private EV ownership
- Implement high priority segments in the walking and bicycling network
Achieving climate and resilience goals through integrated planning

■ Citywide Plans
  - Climate Action Plan
  - OnePGH Resilience Plan
  - Comprehensive Plan
  - Citywide Green First
  - EcoInnovation District Plan
EcoDistrict Protocol

3 IMPERATIVES:
Equity, Resilience, and Climate Protection

6 PRIORITIES:
Place, Prosperity, Health and Wellbeing, Connectivity, Living Infrastructure, and Resource Regeneration

3 IMPLEMENTATION PHASES:
Formation, Roadmap, and Performance

THE PROTOCOL IS DESIGNED TO INSPIRE COMMUNITY DEVELOPMENT THAT:

• Commits to Equity, Resilience, and Climate Protection.
• Supports multi-stakeholder collaboration and governance.
• Creates a comprehensive district-scale Roadmap guided by sustainability performance indicators.
• Reports progress with a commitment to transparency and knowledge sharing.
Implementation

Buildings

- New Land Use Regulations
  - Uptown Public Realm
  - Riverfront Zoning
- New Incentives
  - Performance Points System
- Collaboration / Consultation
  - Performance Reviews
  - Master Plans

Infrastructure

- Bus Rapid Transit
- Green Infrastructure
- Public Realm and Open Space Planning
- Smart Systems
- District Energy and Micro-Grids
Master Plans and Institutional Master Plans

Source: University of Pittsburgh, 2018
Performance Reviews

Source: UPMC Vision Rehabilitation Hospital Hospital, 2018
District Energy and Micro-Grids

■ Existing District Energy Systems
  - PACT
  - Northside
  - Uptown
  - Bellefield

■ Potential New District Energy Plans
  - 2nd Avenue
  - 62nd Street
  - SCI Site
Vehicle Electrification

- Bus Rapid Transit
- City fleet conversion
- Expanded charging infrastructure
- Integration of renewables with electric vehicles
Thank you!