



Pittsburgh Climate Action Plan 3.0



Pittsburgh 2030 Goals

City Operations

- 100% renewable energy use
- 100% fossil fuel free fleet
- Divestment

City of Pittsburgh

- 50% energy & water use reduction
- 50% transportation emission reduction
- Zero waste



Emission Reduction Goals

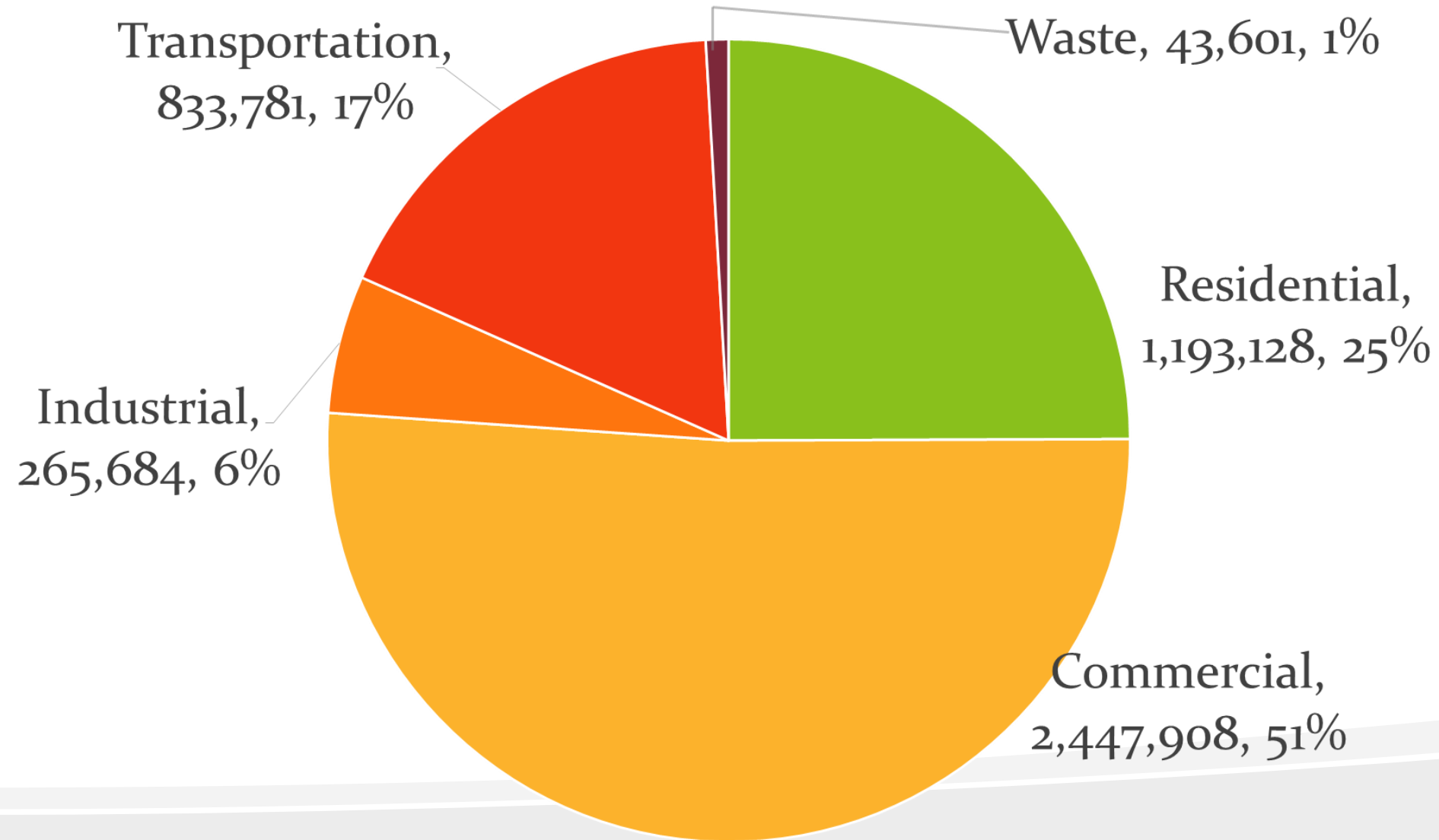
- 20% GHG Reduction by 2023
- 50% GHG Reduction by 2030
- 80% GHG Reduction by 2050



Pittsburgh's Community Greenhouse Gas Emissions

2003, 2008 and 2013

2013 Weather Normalized Sector Breakdown





Pittsburgh Climate Action Plan 3.0




Pittsburgh Climate Initiative – History

- The Pittsburgh Climate Initiative led the development of the first two Climate Action Plans
- PCI was initially convened by Green Building Alliance and Pennsylvania Environmental Council
- It was organized around Local Government, Business, Higher Education and Community for CAP 1.0 & 2.0
- CAP 1.0 & 2.0 were guided by 20% reduction by 2023 goal



CAP 3.0 Development Process

- CAP 3.0 expands upon progress made by CAP 1.0 and 2.0
- Stakeholder engagement played an integral part in development of CAP 3.0
- Over the past three years:
 - The City hosted approximately 100 meetings, workshops, and events to help gather input and content for the Plan
 - 300+ individuals representing 90 different organizations, businesses, nonprofits, and government entities participated in these events



PCAP 3.0 Vision

- Ambitious, visionary goals & objectives to strive for by 2030
- Prioritize actions that build a foundation for future success, are scalable, educational, and achievable
- Create an advisory document that will align with other planning procedures in the City of Pittsburgh including master planning, zoning codes, comprehensive planning, etc.



Goals of Projects

- Reduce emission
- Improve resiliency
- Increase innovation
- Foster leadership
- Promote workforce development
- Introduce economic opportunities
- Align with City zoning codes
- Support the OnePGH Resilience Strategy
- Inform future planning efforts

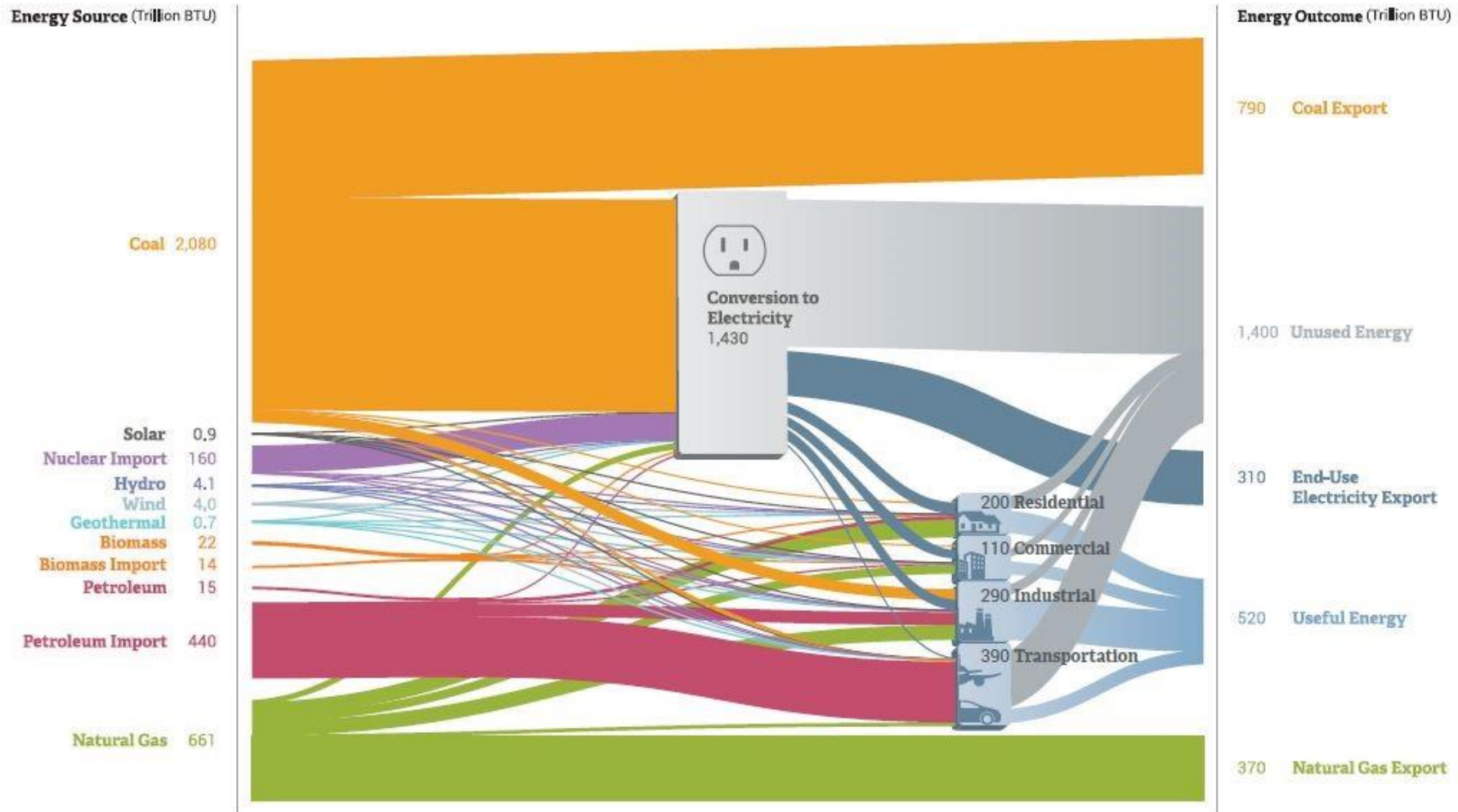


Pittsburgh Climate Action Plan Format

- Buildings
- Energy Generation and Distribution
 - Transportation & Land Use
- Consumption & Resource Recovery
 - Food & Agriculture
 - Urban Ecosystems

Regional Energy Flow: Production, Consumption, Net Imports/Exports, and Losses

Power of 32 Region - uniting Pittsburgh and 32 counties across western Maryland, eastern Ohio, southwestern Pennsylvania, and northern West Virginia
Year 2011 Data



Source: Sustainable Pittsburgh 2014. Format for this energy flow chart is adapted from the Lawrence Livermore National Laboratory's (LLNL) US National Energy Flow Chart. The data were derived primarily from 2011 county-level data published by the Energy Information Administration (EIA), the U.S. Department of Agriculture, which represents the most comprehensive local data available. For more information on the complete data sources and methodology to prepare the estimations for the Power of 32 region, see pages 18-19 of the full report at www.energy4p32.org.



Energy Generation and Distribution

- Reduce line loss
 - Duquesne Light capital investment projects
 - Peoples methane tracking
- District Energy Approach
 - Improved resiliency of grid infrastructure
 - Utilize ‘smart’ technology
 - Location efficiency
- Increase local renewable generation
 - Map out optimal location for renewable installation
 - Combined heat and power
 - Solar
 - Hydro
 - Waste to Energy
 - Increase electric vehicle use
 - Install zero carbon charging infrastructure



Buildings

- Improve Energy Efficiency
 - Energy benchmarking
 - Improved building codes
 - Energy efficiency retrofits and upgrades
- Reduce Peak Load
 - Utilization of smart meter data
 - Demand Response programs
 - Demand management
- Integration of green technology
 - Improve access to utility data
 - Purchase local renewable energy
- Residential Energy Efficiency
 - Create district overlay policies using energy income data
 - Incentivize home energy audits
 - Develop outreach and education campaign around energy saving techniques



Transportation and Land Use

- Reduce vehicle miles traveled by increasing mode shifts
 - Improve and maintain pedestrian and bike infrastructure
 - Bus rapid transit system
 - Prioritize key corridors for transit
 - Transit oriented development
- Electrify vehicles
 - Fossil fuel free fleet
 - Bus electrification
 - Zero carbon charging infrastructure
 - Shuttle electrification
 - Installation of residential charging infrastructure



Consumption & Resource Recovery

- Zero Waste Plan
 - Public Private Partnerships
 - Materials Recovery Map
 - Recycling bin deployment
- Waste to Energy
 - Allow for residential and commercial composting
 - Develop waste to energy plan
 - Utilize ALCOSAN



Food & Agriculture

- Reduce Food Waste
 - Public Private Partnerships
 - Food recovery
 - Improve education around healthy food choices
- Increase local agriculture
 - Develop educational programs with school systems
 - Utilize vacant lots
 - Prioritize locally sourced products



Urban Ecosystems

- Improve Urban Forests
 - Develop forest rating system
 - Pest control
 - Diversify tree species
 - Protect green spaces
- Improve Soil Quality
 - Allow for residential and commercial composting
 - Utilize compost on public lands
 - Brownfield remediation plan



Additional Steps

- Draft release
- Public comment period
- Sustainability & Resilience Commission
- Integration of CAP into City procedures and planning activities
- Alignment of CAP with Zoning Codes