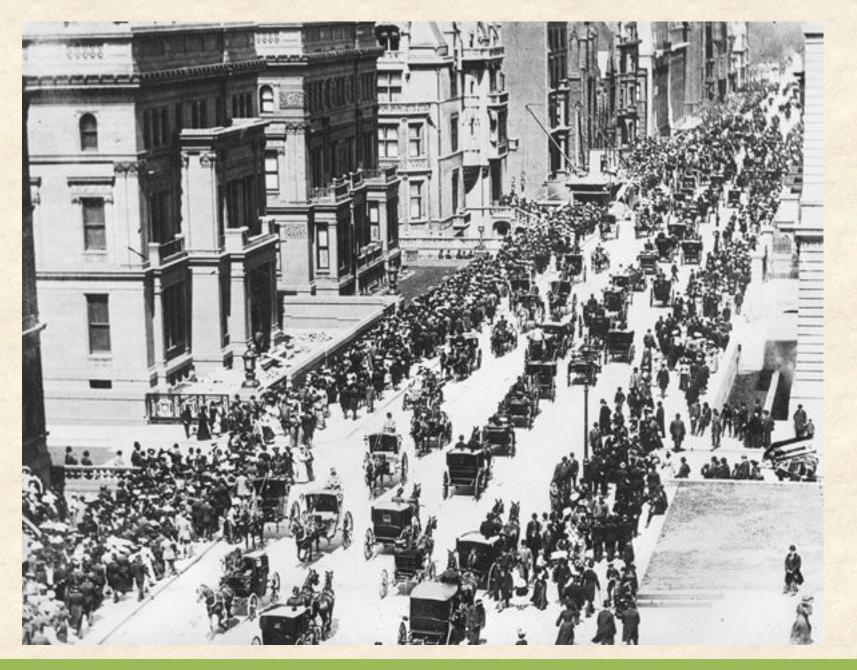
## **CREATING A CARBON NEUTRAL ARLINGTON**







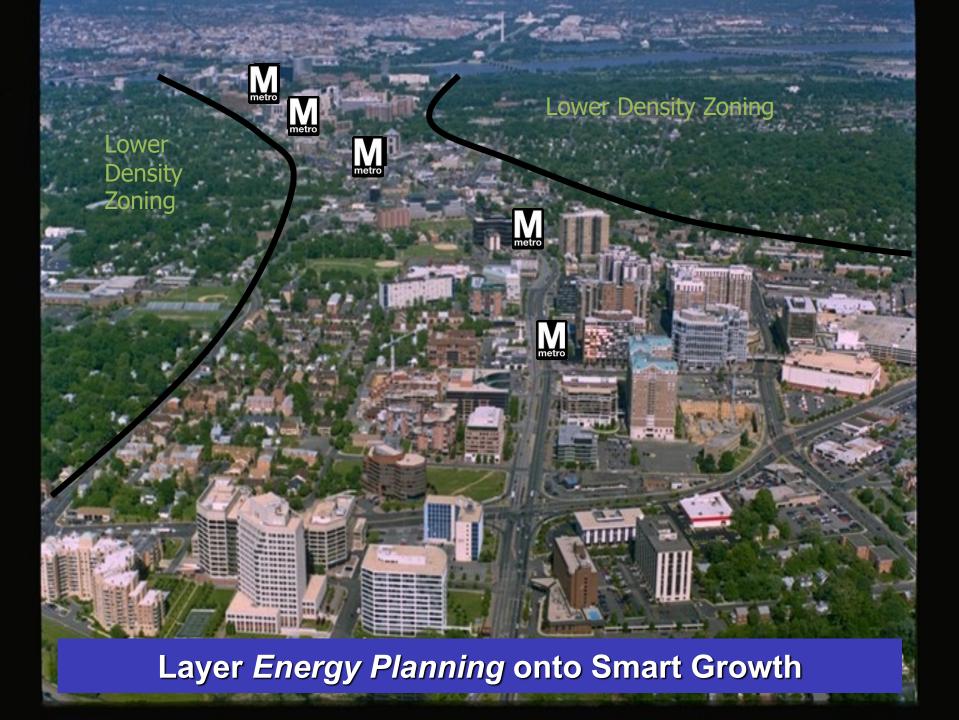




# Community Energy Plan Carbon Neutral Targets



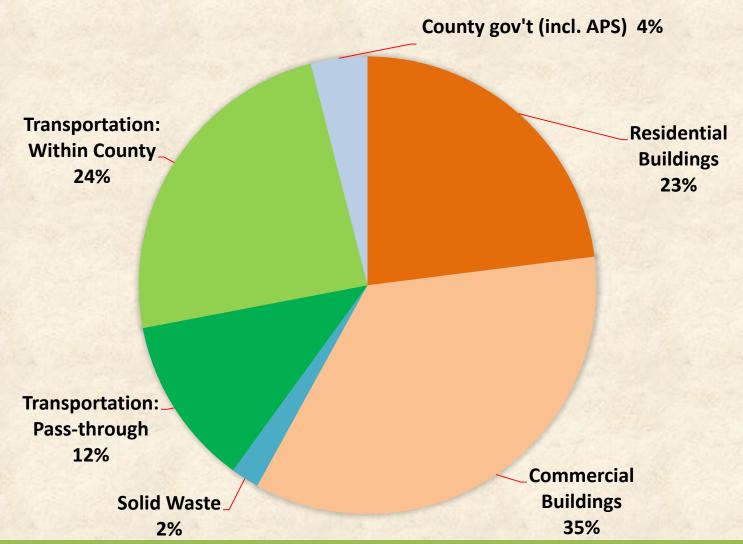
- Carbon neutral community by 2050
- Government operations to achieve 100% renewable electricity by 2025
- Community to achieve 100% renewable electricity by 2035



## **Arlington's Emissions Profile**



**ARLINGTON GHG EMISSIONS BY SECTOR - 2016** 





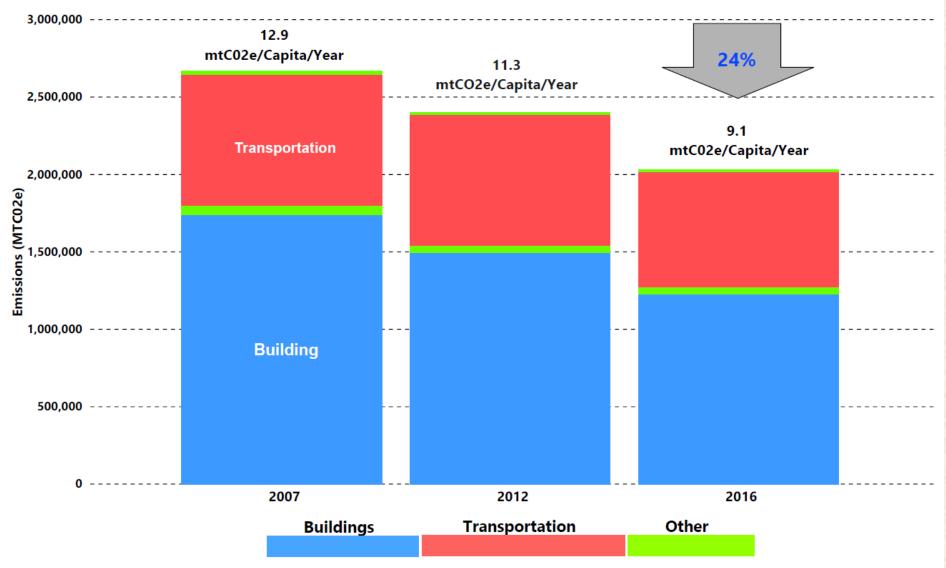


- Over 18,000 new residents (8% growth in population)
- Employment grew by 10,700 workers (5% growth)
- Number of housing units grew by 13,110 (a 12% increase)
- Electric grid emissions rate (carbon per kWh) fell by 28%
- Total energy use in buildings decreased 11%, with declines across all fuels: electricity, natural gas, and fuel oil.
- Total energy use in transportation declined 13%

#### **Arlington's Community Emissions Profile**



Units = metric tons of CO<sub>2</sub>e per capita per year



## Arlington's Energy Roadmap: 2019 Community Energy Plan





**Buildings** 



Renewable Energy



County
Government
Operations



Education & Behavioral Change



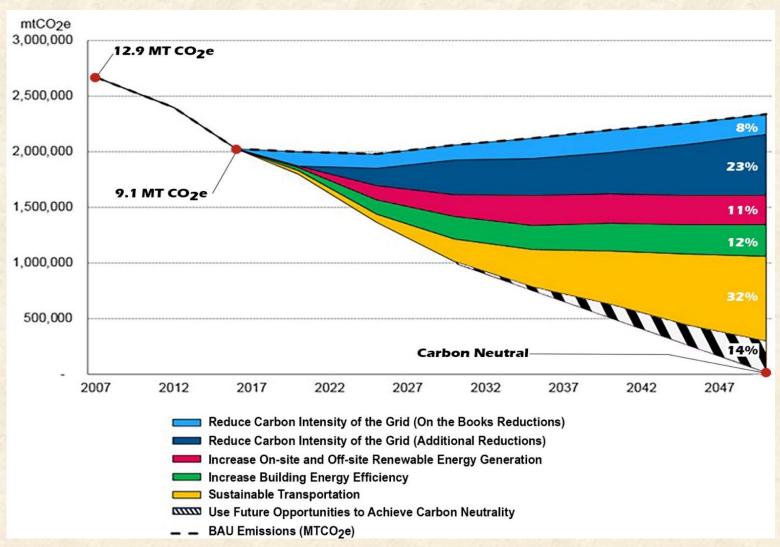
Transportation



Resilience

#### Pathway to Carbon Neutrality by 2050





## Successful Programs



- Green Building Density Incentive Program
- Sustainable Buildings Policy for County buildings
- Two+ Net Zero Energy Schools
- Innovative Solar Co-op for homeowners
- Green Home Choice Program, results in ~50% reduction in energy costs for participating homes
- First LEED Platinum community in the nation



#### 2007 - 2017 **SUCCESSES**

Saving Energy & Money Every Day

\$4,700,000

saved annually by the community & county government through actionable AIRE program outreach & projects.

Community greenhouse gas emissions 2007-2017





24%

**Green Home Choice** certified homes. saving an average of 50% on utility bills.

#### **10 Million Square Feet**

of LEED certified space in 38 buildings through AIRE's Green Building program, saving businesses and residents more than \$2 million per year.





by businesses and residents through AIRE's commercial and home energy

#### Doubled



the number of solar systems since 2015. 118 homeowners have installed solar through Arlington Solar Co-ops. Program energy savings are equivalent to taking 4,000 cars off the road annually.





saved annually

## Things to do

Arlington Initiative to Rethink Energy

- Renewables
- Electric vehicles
  - County fleet
  - Community charging infrastructure
  - School buses
- Buildings new and renovations
- PACE financing
- Public Education







#### AIRE: Energy Lending Library

Tools to help you save money on energy bills, and make your home more comfortable.













### What About Energy Equity?



 "Ensure that access to and the impact of energy upgrades, participation in energy programs, and the movement toward a clean, reliable and secure grid is equitable across all socioeconomic and racial and ethnic groups, including low-to-moderate income and disadvantaged communities"



Joan Kelsch
Office of Sustainability
and Environmental Management
Arlington, VA
<a href="mailto:jkelsch@arlingtonva.us">jkelsch@arlingtonva.us</a>
703-228-3599