

**FRANKLIN COUNTY
ENERGY STUDY**

RECOMMENDATIONS

JUNE 2018



STUDY BACKGROUND

- Study was completed in early 2018
- What now?
- Recommendations sub-group
- 3 issues:
 - Wasted energy
 - Expenditure outflow
 - Energy burden

THE RECOMMENDATIONS

- 1) Providing policy, technical and financial support
- 2) Reducing energy consumption in homes and businesses
- 3) Reducing single-occupancy commutes
- 4) Increasing the adoption of electric vehicles
- 5) Increasing local renewable generation

RECOMMENDATION #1

PROVIDE POLICY, TECHNICAL AND FINANCIAL SUPPORT

Targets:

- 12,000 additional clean energy jobs
- 29,000 total by 2030



FRANKLIN COUNTY CLEAN ENERGY ECONOMY

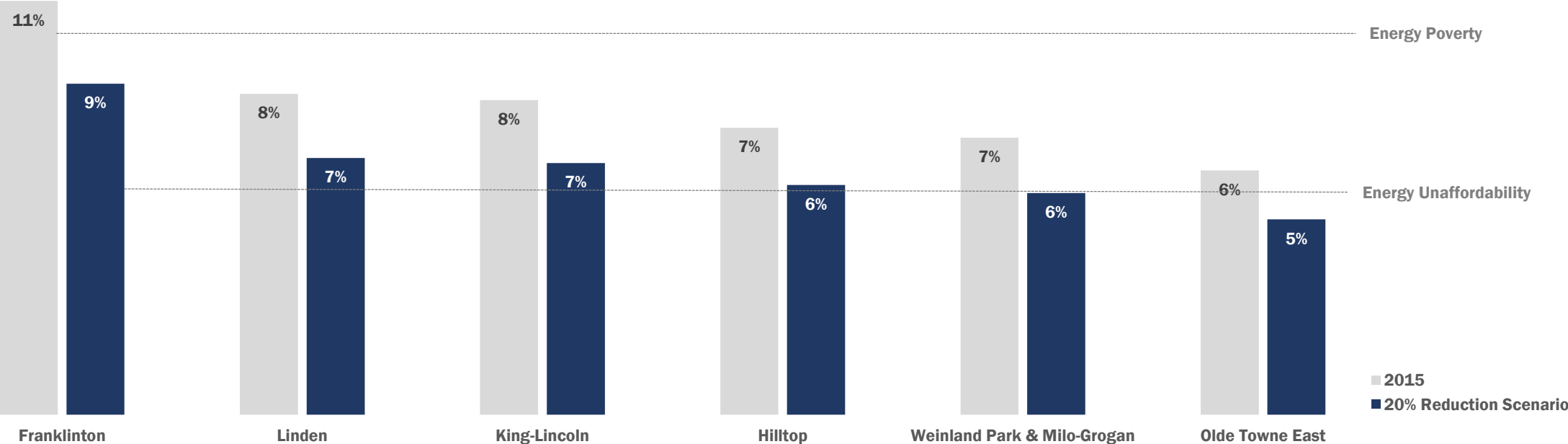
2015 AND PROJECTED EMPLOYMENT WITH RECOMMENDATIONS (NUMBER OF JOBS)

RECOMMENDATION #2

REDUCE ENERGY CONSUMPTION IN HOMES AND BUSINESSES

Targets:

- Energy Savings: 20% by 2030
- Average Residential Energy Burden: below 5% in any ZIP Code



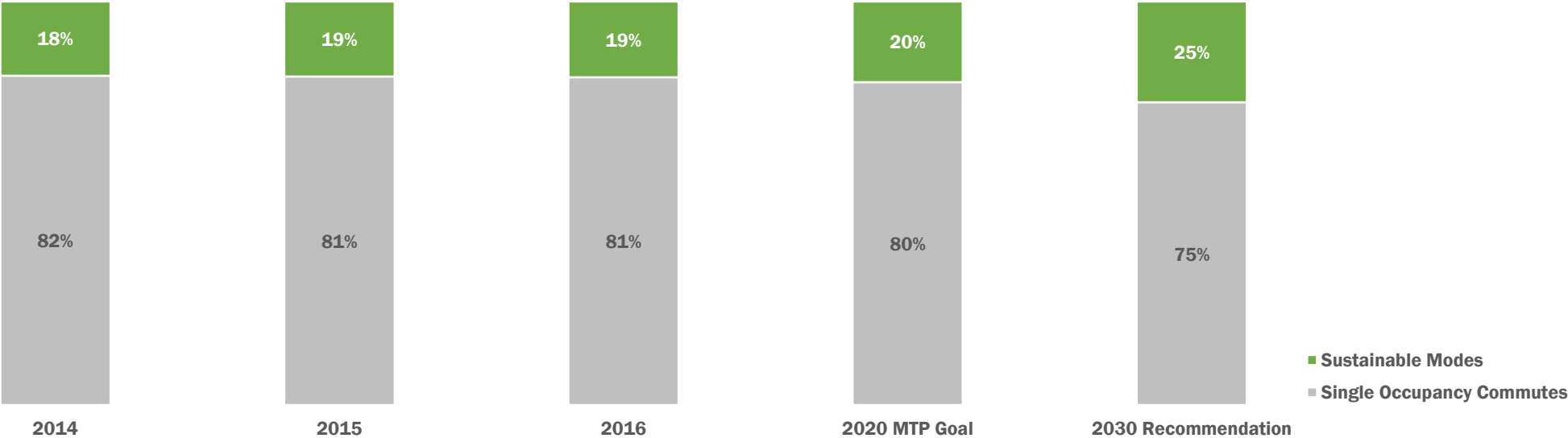
**FRANKLIN COUNTY RESIDENTIAL ENERGY BURDENS
BEFORE AND AFTER IMPACT OF 20% ENERGY REDUCTION**

RECOMMENDATION #3

REDUCE SINGLE-OCCUPANCY VEHICLE COMMUTES

Targets:

- 2030 Mode Split: Drive Alone – 75%
Sustainable Modes – 25%

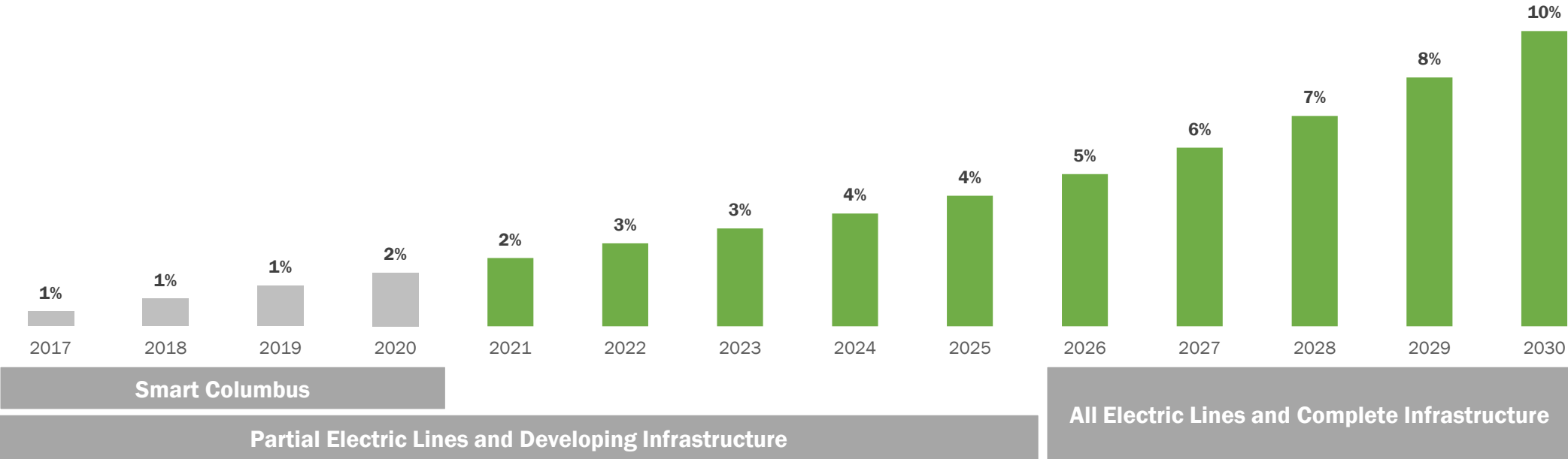


FRANKLIN COUNTY SINGLE-OCCUPANCY VEHICLE COMMUTE PERCENTAGES

RECOMMENDATION #4
INCREASE THE ADOPTION OF ELECTRIC VEHICLES

Targets:

- EV Adoption Rate: 10%

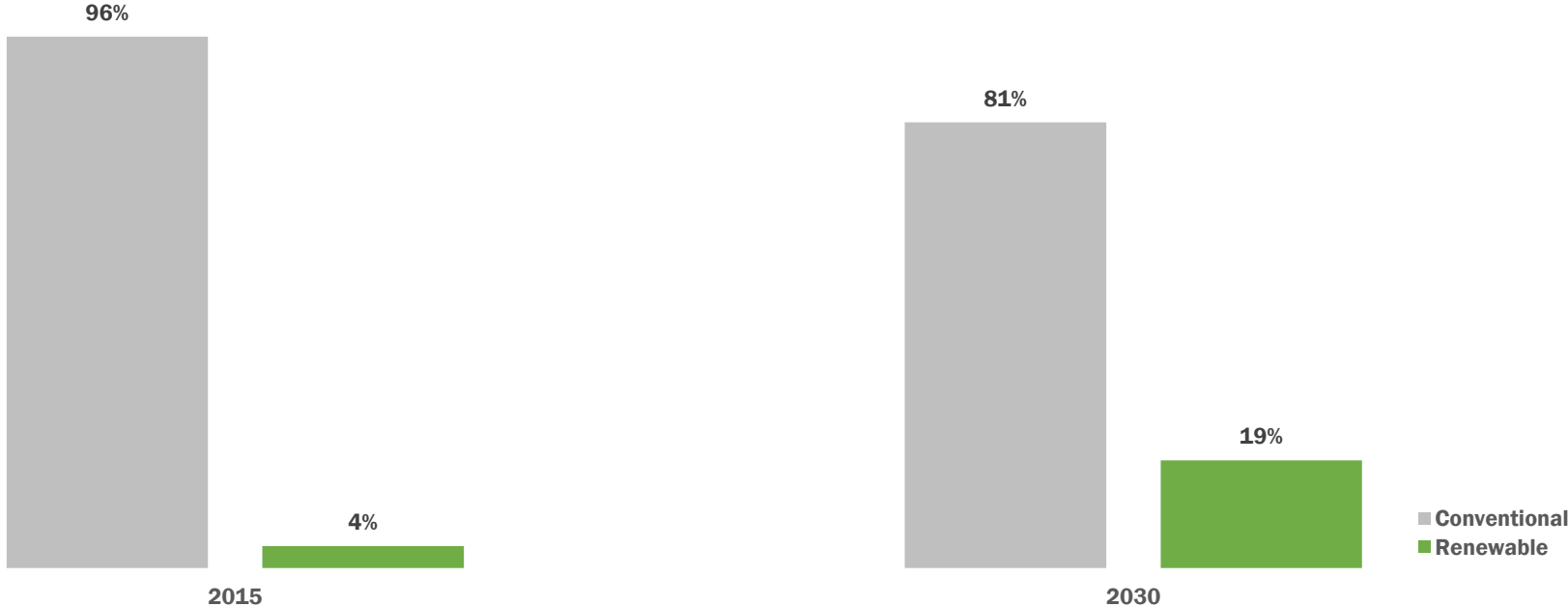


EV MARKET PENETRATION
SMART COLUMBUS PLUS RECOMMENDATION

RECOMMENDATION #5
INCREASE LOCAL RENEWABLE GENERATION

Targets:

- 1 GW of Electric Capacity from Solar, CHP and Battery Storage



RENEWABLE CONTENT OF FRANKLIN COUNTY ELECTRICITY IN 2015 AND PROJECTED WITH RECOMMENDATION FOR 2030 (INCLUSIVE OF 10% RENEWABLE GOAL FOR PJM)

RECOMMENDATIONS

ECONOMIC BENEFITS OF ENERGY SAVINGS

Goal	Annual Consumer Savings	Annual Reduction in Outflow
2. Reduce Energy Consumption in Homes and Businesses (20% Reduction from 2015)	\$235 mil.	5.3%
3. Reduce Single-Occupancy Vehicle Commutes (75% Drive Alone; 25% Sust. Modes)	\$47 mil.	1.2%
4. Increase the Adoption of Electric Vehicles (10% of Market)	\$36 mil.	0.8%
5. Increase Local Renewable Generation (1 GW: PV, CHP and Battery)	\$33 mil.	6.0%
Economic Benefits of Energy Savings	\$348 mil.	13.3%

GOAL SCENARIOS

STRATEGIES, ACTIVITIES AND PARTNERS

Recommendation #2 – Reducing Energy Consumption In Homes and Businesses		
Strategy	Activity	Partners
Develop local governments as energy advocates	<ul style="list-style-type: none"> Support the participation in and continuance of the Local Government Energy Partnership. 	MORPC Local Governments
Support state, regional and Federal policy which increases energy efficiency	<ul style="list-style-type: none"> Respond to request for comments from the PUCO. 	Franklin County MORPC
Unlock energy efficiency potential at County-owned buildings	<ul style="list-style-type: none"> Include all county buildings in MORPC’s Benchmarking Program in order to establish baseline and develop reduction target. 	MORPC Franklin County Utilities
Unlock energy efficiency potential in multi-family buildings	<ul style="list-style-type: none"> Policy and financial support for innovative energy efficiency programs. Improve marketing of programs. 	Utilities Private Sector MORPC
Support energy efficiency initiatives in commercial and industrial buildings	<ul style="list-style-type: none"> Promote benchmarking programs available to the private sector. Improve marketing of energy efficiency programs and the utilization of financing programs. 	Utilities Private Sector Columbus-Franklin County Finance Authority
Location-based community energy efficiency improvements	<ul style="list-style-type: none"> Utilize the Franklin County Energy Study to target areas with the greatest energy burden. Support the Community Energy Savers Program. Pair with County Home Repair Program. Develop a solar-for-affordable-housing incentive program. 	MORPC Local Governments Utilities Community Leaders and Residents Housing Authority Private Sector



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