THE CITY OF FAYETTEVILLE'S ENERGY ACTION PLAN

PURPOSE
CLEAN AIR, WATER, & SOIL
RESILIENT LOCAL BUSINESSES
ENERGY EFFICIENT HOMES
IMPROVED PUBLIC HEALTH
ENERGY INDEPENDENCE
CULTURE OF INNOVATION
COLLECTIVE UNDERSTANDING OF CLIMATE CHANGE
LEGACY OF STEWARDSHIP

SCOPE
BUILDINGS
ENERGY SUPPLY
TRANSPORTATION
WASTE

THE NEED FOR ACTION
TIMELY MARKET OPPORTUNITIES
• COST OF CLEAN ENERGY IS NOW LESS THAN TRADITIONAL FUEL SOURCES
• ECONOMIC BENEFITS OF ENERGY INDEPENDENCE
• REDUCED VULNERABILITY FROM GLOBAL MARKETS
• LOCAL ECONOMIC STRENGTH IN INNOVATION AND GREEN JOBS

CLIMATE IMPACTS IN NORTHWEST ARKANSAS
• INCREASED SUMMER TEMPERATURES
• INCREASED FREQUENCY OF EXTREME WEATHER
• STRAINED WATER SYSTEMS
• CHANGES IN AGRICULTURAL SEASONS
• CLIMATE REFUGEES IN NWA

CITY-LEVEL AND CORPORATE ACTION IS NOW REQUIRED
HOST OF CO-BENEFITS FROM CLEAN ENERGY AND ENERGY EFFICIENCY

COMMUNITY-WIDE GHG INVENTORY
FAYETTEVILLE USED THE ICLEI 'US COMMUNITY PROTOCOL FOR ACCOUNTING AND REPORTING OF GREENHOUSE GAS EMISSIONS' TO ASSESS OUR 'BIG FIVE' EMISSIONS - ELECTRICITY, NATURAL GAS, VEHICLE MILES TRAVELED, LANDFILL WASTE, & WASTE WATER

COMMUNITY-WIDE GHG INVENTORY: 2010 - 2016

PER CAPITA EMISSIONS
2010
2011
2012
2013
2014
2015
2016
METRIC TONS OF GHG EMISSIONS PER YEAR: FAYETTEVILLE, AR

COMMUNITY-WIDE GHG INVENTORY

METRIC TONS OF GHG EMISSIONS PER CAPITA

2010
2030
2050
1,390,700 MTCO2E
834,419 MTCO2E
278,139 MTCO2E

BY TRACKING AND AGGRESSIVELY ADDRESSING THE FOUR IN-SCOPE AREAS OF THE ENERGY ACTION PLAN, THE CITY OF FAYETTEVILLE WILL STRIVE TO ACHIEVE A COMMUNITY-WIDE REDUCTION IN GREENHOUSE GAS EMISSIONS

OFFER FEEDBACK AT www.SurveyMonkey/r/EnergyActionPlan
THE CITY OF FAYETTEVILLE’S ENERGY ACTION PLAN

BUILDINGS
- Complete periodic feasibility analyses of building energy code updates
- Achieve 3% annual reduction in overall energy usage by total building stock
- Maintain a target of 85% of Fayetteville residents living within a 1/3 of a mile of a heat island mitigation feature

STRATEGIES:
1. Make all new buildings energy efficient from point of construction
2. Make existing single and multi-family dwellings more energy and resource efficient
3. Make existing institutional, commercial, and industrial buildings more efficient
4. Develop a heat island mitigation plan to lower overall energy needs for all building types

ENERGY SUPPLY
- Achieve 100% local government clean energy by 2030
- Achieve 50% community-wide clean energy by 2030
- Achieve 100% community-wide clean energy by 2050

STRATEGIES:
1. Advocate to increase utility companies renewable energy portfolio
2. Purchase 100% clean energy for City government
3. Increase the number of local solar PV installations

BUILDINGS
- Achieve 100% local government clean energy by 2030
- Achieve 50% community-wide clean energy by 2030
- Achieve 100% community-wide clean energy by 2050

TRANSPORTATION
- Reduce per capita vehicle miles traveled to 2010 levels by 2030
- Achieve 25% bike/walk/transit mode share by 2030
- Reduce total housing and transportation costs to 45% of area median income

STRATEGIES:
1. Increase the percentage of fuel efficiency and alternative fuel vehicles
2. Support the expansion of alternative and active transportation options
3. Encourage compact, complete, and connected land development and street infrastructure

WASTE
- Achieve 40% total waste diversion from the landfill by 2027

STRATEGIES:
1. Increase the percentage of households, businesses, and institutions participating in the recycling program
2. Develop and implement a commercial food composting program
3. Develop and implement a construction and demolition debris program

Offer feedback at www.SurveyMonkey/r/EnergyActionPlan