

Climate and Community Innovation

City of Davis

Plan – Guiding Principles



Engage Community Directly

Achieve Measurable GHG Reductions

Plan

Begin Process to Successfully Adapt to Transitioning Climate and Economy

Prioritize Cost
Effective Actions that
build on past success

Overview



- > Why do we need to develop the ability?
- > What has Davis done?
- > Needs
- > What gives us hope?

Background



- Why do we need to develop the ability?
- The science and evidence
- Residential sector produces high % of GHG emissions
- Organized community gives us the best opportunity to mitigate and adapt successfully
- May be the most cost effective way forward
- This is where local government can be most effective

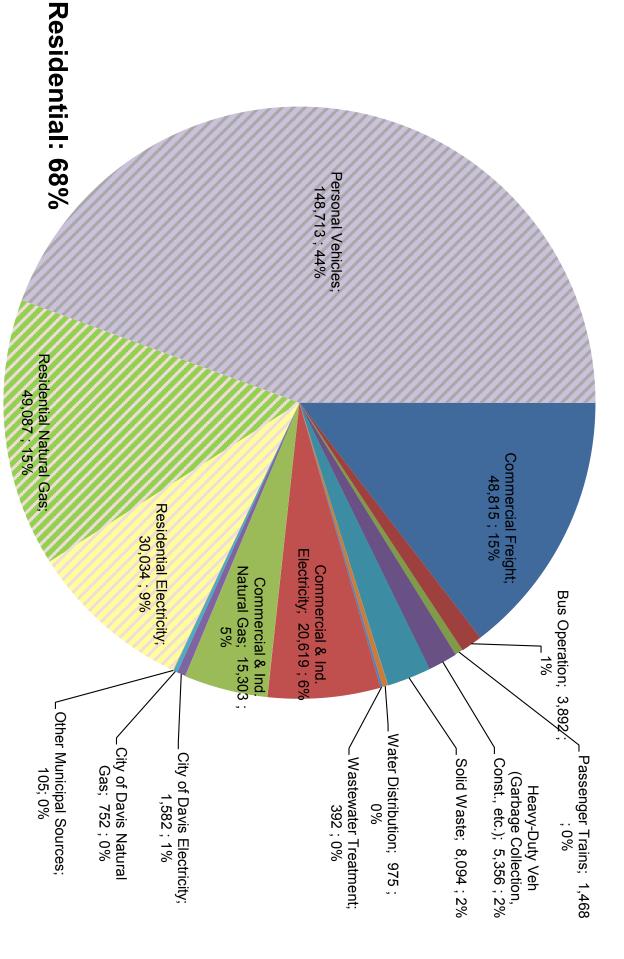
Key steps



- > Understanding the role residential sector plays
- Due Diligence / Preparation (finding a tool(s) that fits)
- > Test it
- > Learn

Understanding Residential Sector nventory





Community Goals Understanding Residential Sector



2010

2000 Levels (min)

1990 Levels (desired)

2015

1995 Levels

15% Below 1990 Levels

2020

• 1990 Levels

28% Below 1990 Levels

2050

80% Below 1990 Levels

Carbon Neutral

Per capita Goals **Understanding Residential Sector**



2010

Base Year – 8.1 MT/Person

2015

6.5 MT/Person (min) = 20% reduction

4.1 MT/Person (desired) = 51% reduction

2020

4.8 MT/Person (min) = 41% reduction

3.5 MT/Person (desired) = 57% reduction

2050

1.0 MT/Person (min) = 88% reduction

Net 0 MT/Person (desired) = 100% reduction

Due Diligence / Preparation



- Find a well constructed tool(s)
- Needs and abilities of households
- Structure for peer-to-peer support
- Small group structure anchored in broad vision with strategy to scale

Test it



- Pilot Program (Low Carbon Diet, 2009)
- 100 households across geographic/socio-economic range
- Households across the range could reach GHG reduction goals
- Worked best when households had social connections
- Did not perform as well in larger group (10 households)
- Difficult to verify "stickiness" of actions
- Needed support/resources/training to replicate and scale

Test it - Outcomes



- Pilot Program (Low Carbon Diet, 2009)
- Proof of concept & due diligence
- Formation of a Community Organization with aligned objectives: Cool Davis
- Recognition that this could be delivery platform for programs/services sustainability programs and many other city

Needs



- Understand Community at deeper level
- Build/support community organization
- Build support from outside organizations and funders to recognize the need and potential

Key Learnings



- Do not underestimate the effort
- Do not underestimate the value (and power) of cobenefits
- Prepare a business case for the actions
- > Make it Enjoyable

Community Innovation





portation by developing a system of blan-ways, in 1972, the City drew up a general plan for future development, based on question Council decided to facilitate bicycle team DAVIS, CALIFORNIA. The citizens of Davis have been involved in progressize city planning and energy conser-vation since 1988, when the City blocks the winter sun. the city realized that fending close to a house the others. Davis had similar regulations unti arrount of yard space between the funce an FENCES AND HEDGES, in most com-munities, fencing regulations regular that funces be constructed relatively close to houses - leaving a large

water, energy, and other natural resources. how energy was being used by rest. Davis' General Plan was to determine ENERGY USE, An important part of denta. A survey of residents showed for new office-building construction. WORK IN THE HOME, By encouraging cattage industry, Davis hopes to our tion and to reduce some of the seed

STREETS. As new developments are built, Davis believes that inducting street width from 34 to 25 feet or least self not enty save system— it would also use less asphall and may cereirbute to ollower auto speeds, thoraby enhancing fuel officiency.

handles newspapers, cans, glass, even waste oil. With large initial investments in drop boxes, a collection specifier, trucks, and a can many month crusher, the recycling effort lost money is its early years. But now, the operation breaks even by selling \$2,000 worth of recyclabias. began the years ago and has grown into a full-fledged trash-collection. deposit, and recycling outside that RECYCLING. Davis' recycling effort

one single-tamit Will with care. Davis plants a large number of evergreen trees to decrease the need for leaf pickup in the Fall. SMADE TREES. Trees provide impor-tant shading for the city's streets and buildings, and the city maintains them

has some 25,000 bloydes registered. in the U.S. In a city of 33,000 people, David BICYCLES. Davis' blawways and bicycle safety programs provide unique incerdeditto bloycle trans-portation-unequalled anywhere else

BUSESBy using second-hand, detaet-flueted,doubte-decker buses, Dunts is able to provide convenient public Immiportation facilities at minimum

cided to but any new pool healing except Use Survey revealed that many of Danis' 700 swimming pools cost \$40 to \$60 a month to hoot, the oily doand bicycle Inaffic are reproduced in appen planners and public officials, David pity codes, ordinances, and plans re-liged to residential construction (non.) APPENDICES. To assist other oils

DNE CITY'S PLAN TO SAVE ENER

global issue" affect on a that a small this shows importantly, community can have an most

1977 Experiment Davis

gas-heated pools be converted to solar heating within the next tan years. polar systems, and to require that curren