

GOAL 13. ENERGY CONSERVATION

THE AREAS MOST LIKELY FOR ENERGY CONSERVATION ARE IN RESIDENTIAL USE AND TRANSPORTATION.

RESIDENTIAL ENERGY USE

FOR EXISTING STRUCTURES THERE ARE WEATHERIZATION PROGRAMS ADMINISTERED THROUGH THE LOCAL HOUSING COUNCIL (SEE HOUSING) AND PACIFIC POWER AND LIGHT COMPANY. WEATHERIZATION OF THE EXISTING STOCK CAN REDUCE ELECTRICAL CONSUMPTION FOR SPACE HEATING CONSIDERABLY. ALSO, THERE EXISTS THE POTENTIAL FOR GREATER USE OF WOOD FOR SPACE HEATING AS A RENEWABLE RESOURCE.

NEW STRUCTURES CAN TAKE ADVANTAGE OF TAX CREDIT PROGRAMS FOR SOLAR ENERGY APPLICATIONS. ALSO, GREATER EMPHASIS COULD BE PLACED ON SOLAR ORIENTATION AND USE OF WINDBREAKS TO MAXIMIZE NET SOLAR HEAT GAIN DURING THE WINTER.

TRANSPORTATION ENERGY USE

CAVE JUNCTION IS A RELATIVELY SMALL AND COMPACT CITY, WHICH DOES NOT REQUIRE LONG COMMUTES. FUTURE GROWTH OF THE CITY WILL ALLOW A WIDER VARIETY OF SERVICES TO BE PROVIDED FOR ILLINOIS VALLEY RESIDENTS IN GENERAL. THIS WILL REDUCE NEEDS FOR TRIPS TO GRANTS PASS.

CONCLUSIONS:

1. THE AREAS OF RESIDENTIAL AND TRANSPORTATION ENERGY USE HAVE THE GREATEST POTENTIAL FOR ENERGY CONSERVATION.
2. FUTURE GROWTH OF CAVE JUNCTION WILL REDUCE THE NEED FOR TRIPS TO GRANTS PASS BY ILLINOIS VALLEY RESIDENTS.

POLICIES:

1. ENFORCE THE INSULATION REQUIREMENTS OF THE UNIFORM BUILDING CODE.
2. ENCOURAGE DESIGN ORIENTATION TO SUN AND WIND.
3. ENCOURAGE INNOVATIONS FOR USE OF SOLAR ENERGY AND FOREST BY-PRODUCTS.
4. ENCOURAGE CITIZENS TO PARTICIPATE IN WEATHERIZATION PROGRAMS THROUGH THE COUNTY AND PACIFIC POWER AND LIGHT COMPANY.

RECOMMENDATIONS

1. DEVELOPMENT ORDINANCES SHOULD ALLOW FOR FLEXIBILITY IN DESIGN TO ACCOMMODATE ALTERNATIVE SOURCES OF ENERGY.
2. SOLAR ACCESS RIGHTS AND OPPORTUNITIES SHOULD BE PROTECTED IN NEW DEVELOPMENT THROUGH THE USE OF VARIABLE HEIGHT LIMITS, SETBACKS, AND SELECTIVE TREE REMOVAL, AS APPROPRIATE. THE SITING OF BUILDINGS SHOULD TAKE ADVANTAGE OF GOOD SOLAR EXPOSURE WHEREVER POSSIBLE.
3. BUFFERS OF TREES PROVIDE A NATURAL WIND BREAK WHICH ACTS TO CONSERVE ENERGY. THESE BENEFITS SHOULD BE CONSIDERED BEFORE REMOVING TREES WHERE RESIDENTIAL DEVELOPMENT IS PLANNED.
4. TAKE ADVANTAGE OF ANY AVAILABLE STATE OR FEDERAL FUNDS TO PROVIDE BIKEWAYS AND PEDESTRIAN PATHWAYS OR SIDEWALKS AS ALTERNATIVES TO THE AUTOMOBILE.