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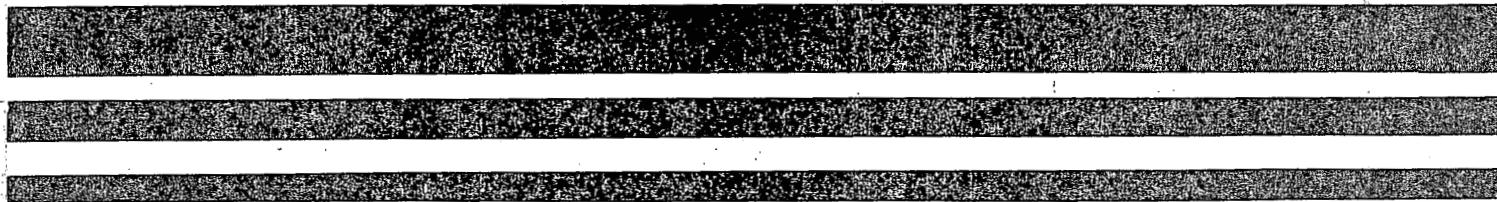
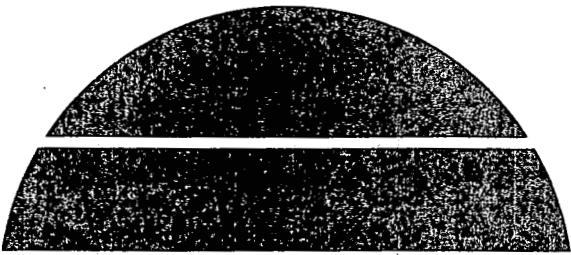
DSE-5216-T3

DATA HANDBOOK FOR THE NATIONAL SOLAR ENERGY
DEMONSTRATION PROGRAM

May 1979

Work Performed Under Contract No. EM-78-S-01-5216

The University of Alabama in Huntsville
Huntsville, Alabama



U.S. Department of Energy



Solar Energy

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Prepared for:
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under
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May 1979

This document is
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Authorizing Official
Date: 7-19-07

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ABSTRACT

This preliminary document provides information in a matrix format which lists technical and programmatic data concerning the various project sites selected for the National Solar Energy Demonstration Program. It incorporates into one handbook the commercial, residential and other demonstration projects which are now a part of the national program. It can be used as a reference source for technical and research purposes on a state-by-state basis.

FOREWORD

This report presents work performed by the Kenneth E. Johnson Environmental and Energy Center, The University of Alabama in Huntsville, under DOE Contract EM-78-S-01-5216. The material incorporated herein is related to the assessment and development of visual and graphic materials and an information system to provide these materials in a catalog format. The matrix format was developed to allow a quick and simple method to review the various types of programs, projects and types of systems employed in the National Solar Energy Demonstration Program.

Mr. William Corcoran is the DOE contract monitor on this program. Mr. David L. Christensen is the UAH principal investigator on the contract. The supporting efforts of Mr. Carl Conner of DOE, Mr. Myron Myers of the NASA-Marshall Space Flight Center, and Mr. John Crane of PRC/Energy Analysis Co. to develop these materials are appreciated. The key support of Ms. Opal Tabor, Mr. Arvind M. Patel and Mr. Ralph T. Rich of the UAH Johnson Environmental and Energy Center was instrumental in the development of these materials and their efforts are sincerely appreciated.

DLC

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INTRODUCTION

There is a continuing need to develop improved materials to aid in the communication and dissemination of information related to the applications of solar energy. As the National Solar Energy Demonstration Program expands in size and scope, this need becomes more apparent.

The Johnson Environmental and Energy Center of The University of Alabama in Huntsville is supporting a number of activities under the National Demonstration Program through contracts with the U. S. Department of Energy and the NASA Marshall Space Flight Center. These activities include the coordination of contractor reviews and the development of data bases and educational materials pertaining to the solar heating and cooling of buildings.

One of the current UAH research activities is to provide visual and graphic materials which can provide a record of progress being made in utilizing solar energy with emphasis on the commercial building program. A matrix format was developed which consolidated the various commercial, residential, test, agricultural and industrial process heat projects, and all instrumented sites, into a single working document to aid in the assessment of visual materials and other programmatic activities.

This preliminary document is being distributed on a limited basis for information purposes. Any comments, recommended changes, corrections or suggestions would be appreciated. It is expected that updated and improved versions of this document will be prepared for broader distribution in the future.

Reference materials for developing this document include:

- Solar Heating and Cooling Demonstration Project Summaries, DOE/CS-0038-2, dated January 1979, U. S. Department of Energy.
- Key Personnel Directory, DOE/CS-0057, dated January 1979, U. S. Department of Energy.
- Project Data - Solar Heating and Cooling Commercial Demonstration Program, dated March 1979, U. S. Department of Energy.
- Solar Energy for Agricultural and Industrial Process Heat, DOE/CS-0053, dated September 1978, U. S. Department of Energy.
- Discussions with and materials from DOE, NASA-MSFC, IBM Corporation and PRC/Energy Analysis Company including project computer printouts.

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | COMMERCIAL | RESIDENTIAL | OTHER |
|------|----------------|----------------------|--------|---------|------------|-------------|-------|
| | | | Type | Program | | | |
| | <u>ALABAMA</u> | | | | | | |
| | •AUBURN | BROILER HOUSES | | | | | |
| | •DECATUR | SOYBEAN DRYING | | | | | |
| | •FAIRFAX | TEXTILE DRYING | | | | | |
| | •HUNTSVILLE | CROP DRYING | | | | | |
| | | HOUSE(N) | X | X | | | |
| | | SR, CITIZENS(R) | X | X | | | |
| | | INDUST, BLDG, (R) | X | X | | | |
| | | LABORATORY (R) | X | X | | | |
| | | LABORATORY (R) | X | X | | | |
| | | HIGH RISE OFFICE (R) | X | X | | | |
| | | COMMERCIAL (N) | X | X | | | |
| | LISTER HILL | INDUST, BLDG,(N) | X | X | X-2 | | |
| | •MADISON | HOUSE (N) | X | X | X | | |
| | •MOBILE | HOUSE (N) | X | X | X | | |
| | | INN (N) | X | X | X | | |

N : New R : Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | OTHER | | | | | |
|------|--|------------------------------------|------------------------------------|-------|------------|----------|--|--|-------|--|--|--|--|-----|
| | | | TYPE | | COMMERCIAL | RESIDENT | | | | | | | | |
| | <u>ALABAMA</u> • MONTEVALLO • MUSCLE SHOALS | OFFICE BLDG. (N) COMMERCIAL (N) | HOT WATER HEATING COOLING | X X X | X-1 | | | | | | | | | X X |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | | | |
|------|--------------|------------------------|-------------------------|---------------------------------|-----------|---|--------------------------------|---------------------------|-----------------------------------|-----------------------------------|---------------------------|--------------------------------|--------------------------------|--------------------------|
| | | | TYPE | COMMERCIAL | RESIDENT. | OTHER | INSTRUMENTED INDUSTRY SITES | INDUSTRIAL HEAT SITES | AGRICULTURAL OPERATIONS - NASA | AGRICULTURAL TEST SITES - NASA | DEVELOPMENT SITES - BLDG. | INSTRUMENTED INDUSTRY SITES | INDUSTRIAL HEAT SITES | |
| | | | HOT WATER HEATING | C O O L I N G | NSF | P O N Y C Y C L E | HOT WATER INITIATIVE | FEDERAL WATER BLDG. | HUD RFGA | FEDERAL BLDG. | TEST SITES - BLDG. | DEVELOPMENT SITES - BLDG. | INSTRUMENTED INDUSTRY SITES | INDUSTRIAL HEAT SITES |
| | ARIZONA | | | | | | | | | | | | | |
| | •PHOENIX | MULTI-FAMILY(R) | X | X | | | | | | | X | | | X |
| | •PRESCOTT | HOUSE(N) | | X | | | | | | | X | | | X |
| | •SCOTTSDALE | OFFICE BUILDING (R) | | X | X | X | X | | | | | | | X |
| | •TEMPE | SCHOOL(N) | X | X | | | | | X-1 | | | | | X |
| | | SCHOOL(R) | | X | X | | | | X-3 | | | | | X |
| | | HOUSE | X | | | | | | | | | | | |
| | •TUCSON | HOUSE(N) | X | X | X | | | | | | X | | | X |
| | | HOUSE(N) | X | X | X | X | | | | | | | | X |
| | | DAIRY | | X | X | | | | | | | | | |
| | | FOOD PROCESSING | | X | X | | | | | | | | | |
| | •YAVAPAI | HOUSE(N) | | X | X | | | | | | X | | | X |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | | | | | | | | |
|--------------|----------------|-----------------|--------|-----------|-------------------------|--------------------------------|-----------|---|--------------------|-----------------------------|-----------------------------|---|-------------------------|-----------------------------|--------------------|-----------------------------|-------------------|-------------------------|-----------|
| | | | TYPE | | COMMERCIAL | RESIDENT | OTHER | INSTRUMENTED SITES - INDUSTRIAL SITES - AGRICULTURAL INDUSTRIAL PROCESSES | INDUSTRIAL HEAT | AGRICULTURAL OPERATIONAL | TEST SITES - NASA | FEDERAL BLDG. | FEDERAL BLDG. IRRIGA | TEST SITES - NASA | INDUSTRIAL HEAT | AGRICULTURAL OPERATIONAL | TEST SITES - NASA | FEDERAL BLDG. | HUD BLDG. |
| HOT WATER | HEATING | COOLING | NSF | PON:CYCLE | HOT WATER INITIATIVE | FEDERAL WATER INITIATIVE | HUD BLDG. | FEDERAL BLDG. IRRIGA | TEST SITES - NASA | INDUSTRIAL HEAT | AGRICULTURAL OPERATIONAL | INSTRUMENTED SITES - INDUSTRIAL SITES - AGRICULTURAL INDUSTRIAL PROCESSES | INDUSTRIAL HEAT | AGRICULTURAL OPERATIONAL | TEST SITES - NASA | FEDERAL BLDG. | HUD BLDG. | FEDERAL BLDG. IRRIGA | HUD BLDG. |
| | ARKANSAS | | | | | | | | | | | | | | | | | | |
| | •FAIRFIELD BAY | HOUSE(N) | X | X | | | | | | | | | | | | X | | | |
| | •LITTLE ROCK | HOUSE(N) | X | X | | | | | | | | | | | | X | | | |
| | | RESTAURANT(N) | X | X | | | | | | | | | | | | | | | |

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-NR | S Y S T E M T Y P E | C O M M E R C I A L | P R O G R A M S | R E S I D E N T. | O T H E R |
|------------------|-------------------|----------------|------------------------|---------------------|-----------------|------------------|-----------|
| | <u>CALIFORNIA</u> | | | | | | |
| •ADIN | OFFICE BLDG. (N) | X | HOT WATER | | | | |
| •ARCATA | (R) | X | HEAT PUMP | | | | |
| •BERKELEY | SCHOOL (R) | X | COOLING | | | | |
| •BRENTWOOD | OFFICE BLDG. (R) | X | ON-CYCLE | | | | |
| •BODEGA BAY | GREENHOUSE | X | MUTIPLAIVE | | | | |
| •BORREGO SPRINGS | HOUSE (R) | X | HOT WATER | | | | |
| •CAMARILLO | HOUSE (N) | X | FEDERAL BLDG. | | | | |
| •CERRITOS | OFFICE BLDG. (N) | X | HUD / RFG | | | | |
| •DAVIS | LABORATORY (N) | X | FEDERAL BLDG. | | | | |
| | APARTMENT (R) | X | TEST SITES - NASA | | | | |
| | HOUSES (5/N) | X | DEV-OPEKATIONAL | | | | |
| | HOUSE (N) | X | AGRICULTURAL | | | | |
| | HOUSE (N) | X | INDUSTRIAL | | | | |
| | HOUSE (R) | X | INSTRUMENTED | | | | |
| •DONNER | CAFETERIA (R) | X | PROCESSES HEAT | | | | |
| •EDWARDS | | | SITES - SDNA | | | | |

N : New
R : Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM TYPE | | PROGRAMS | | | | OTHER | | | | | | | | |
|------|--------------|--------------------------------|-------------|---------|----------|-----|------------|-------------|----------------------|-----------------|---------------|---------------|-------------------|--------------------|-------------------------|--------------|-------------|
| | | | HOT WATER | HEATING | COOLING | NSF | COMMERCIAL | PONIC CYCLE | HOT WATER INITIATIVE | FEDERAL WATER R | HUD / R F G A | FEDERAL BLDG. | TEST SITES - NASA | INSTRUMENTED SITES | INDUSTRIAL HEAT PROCESS | AGRICULTURAL | OPERATIONAL |
| | CALIFORNIA | | | | | | | | | | | | | | | | |
| | •EL TORO | LIBRARY(N) APARTMENTS(R) | X | | X | X | | | X-2 | | | | | | | X | |
| | •ENCINITAS | HOUSE | X | | | | | | | | | | | | | | X |
| | •ESCONDIDO | HOUSE(N) HOUSE(N) | X | X | X | X | | | | | | | X | X | | | X |
| | •FRESNO | DRYING INDUST. BLDG. (R) | X | | | | | | X-1 | | | | | | | X | X |
| | •FT. BAGG | OFFICES(R) APARTMENTS(3/N) | X | X | X | X | | | | | X | | | | | | |
| | •GILROY | DEHYDRATION | | | | | | | | | | | | | | | X |
| | •GLEN DORA | AUDITORIUM | X | X | | | | | | X-3 | | | | | | | |
| | •HEMET | HOUSES(3/N) | X | X | | | | | | X-1 | | | | X | | | |
| | •IRVINE | SCHOOL(R) | | X | X | X | | | | X-1 | | | | | | | |
| | •KINGS BEACH | AUDITORIUM(R) | X | X | | | | | | X-3 | | | | | | | |
| | •LA CANADA | AUDITORIUM(N) | X | X | X | | | | | X-3 | | | | | | | |
| | •LIVERMORE | CAFETERIA(R) | X | | | | | | | | | X | | | | | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | | | | INSTRUMENTED | | | | | | |
|------|-------------------|--------------------|--------------|---------|------------|-------------|--------|------------|-----------|---------------|------------|---------|------------|----------|--------------------|--------------|--------------|-------------|------------|------|------|
| | | | Type | | COMMERCIAL | RESIDENTIAL | OTHER | | | | | | | | SITES - INDUSTRIAL | INDUSTRIAL | AGRICULTURAL | OPERATIONAL | TEST SITES | NASA | HEAT |
| | | | HOT WATER | HEATING | Cooling | NSF | POLICE | INITIATIVE | HOT WATER | FEDERAL BLDG. | HUD / RFGA | FEDERAL | TEST BLDG. | DEVSITES | BLDG. | AGRICULTURAL | OPERATIONAL | TEST SITES | NASA | HEAT | DATA |
| | <u>CALIFORNIA</u> | | | | | | | | | | | | | | | | | | | | |
| | •LOMPOC | AUDITORIUM(R) | X | X | | | | | | | | | | | | | | | | | |
| | •LONG BEACH | FIRE STATION(N) | X | X | | | | | | | | | | | | | | | | | |
| | •LOS ANGELES | POLICE STATION (R) | X | X | | | | | | | | | | | | | | | | | X |
| | | APARTMENTS(3/N) | X | X | | | | | | | | | | | | | | | | | |
| | | APARTMENTS(3/N) | X | X | | | | | | | | | | | | | | | | | |
| | •MANCHESTER | HOUSE(N) | | | X | | | | | | | | | | | | | | | | |
| | | HOUSE(N) | X | | | | | | | | | | | | | | | | | | |
| | •MILL VALLEY | LABORATORY(N) | X | | | | | | | | | | | | | | | | | | X |
| | •MISSION VIEJO | HOUSE(2/N) | X | | | | | | | | | | | | | | | | | | X |
| | | HOUSE(3/N) | X | | | | | | | | | | | | | | | | | | X |
| | •MOFFETT FIELD | LABORATORY(R) | X | | | | | | | | | | | | | | | | | | |
| | •MONTEREY | HOUSES(2/N) | X | X | | | | | | | | | | | | | | | | | X |
| | •MOUNT VIEW | | X | X | | X | | | | | | | | | | | | | | | X |
| | •MURPHYS | HOUSES(5/N) | X | X | | | | | | | | | | | | | | | | | |
| | •NOVATO | HOUSE | X | X | | | | | | | | | | | | | | | | | |
| | •OAKLAND | MULTI-FAMILY (2/R) | X | | | | | | | | | | | | | | | | | | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | | | | INSTRUMENTED | | INDUSTRIAL | | SITES - SDA | | INDUSTRY HEAT | | PROCESS | | AGRICULTURAL | |
|------|----------------|-----------------|---------|-----|------------|-----------|---------------|---------------|---------|-------------------|-------|-------------------|-------|--------------|--------------|------------|-------------|---------------|-------------|--------------|---------------|------------|-------------|---------------|--------------|--------------|
| | | | TYPE | | COMMERCIAL | RESIDENT. | OTHER | | | | | | | | | | | | | | | | | | | |
| HOT | WATER | HEATING | COOLING | NSF | PON: CYCLE | HOT WATER | FEDERAL BLDG. | HUD / R F G A | FEDERAL | TEST SITES - NASA | BLDG. | DEV. SITES - NASA | BLDG. | AGRICULTURAL | INSTRUMENTED | INDUSTRIAL | SITES - SDA | INDUSTRY HEAT | PROCESS | AGRICULTURAL | INSTRUMENTED | INDUSTRIAL | SITES - SDA | INDUSTRY HEAT | PROCESS | AGRICULTURAL |
| | CALIFORNIA | | | | | | | | | | | | | | | | | | | | | | | | | |
| | •ORANGE | AUDITORIUM(R) | X | X | X | | | | X-2 | | | | | | | | | | | | | | | | | |
| | •PALO ALTO | APARTMENTS(R) | X | | | | | | | | | | | | | | X | | | | | | | | | |
| | | OFFICES(N) | X | X | | | | | X-3 | | | | | | | | | | | | | | | | | |
| | •PASADENA | LAUNDRY | | | | | | | | | | | | | | | | | | | | | | | X | |
| | •PRAIRIE CREEK | HOUSE(R) | X | X | | | | | | | | | | | | | | | | | | | | | | |
| | •SACRAMENTO | OFFICES(N) | X | X | X | | | | X-3 | | | | | | | | | | | | | | | | | |
| | | HOUSE | X | X | X | | | | | | | | | | | | | | | | | | | | | |
| | | WASHING CANS | | | | | | | | | | | | | | | | | | | | | | | | |
| | •SAN BERNADINO | HOUSE(R) | X | X | | | | | | | | | | | | | | | | | | | | | | |
| | •SAN DIEGO | APARTMENT(N) | X | | | | | | | | | | | | | | | | | | | | | | X | |
| | | SCHOOL(N) | X | X | X | | | | | | | | | | | | | | | | | | | | | |
| | | HOSPITAL(R) | X | X | X | | | | | | | | | | | | | | | | | | | | | |
| | •SAN FRANCISCO | OFFICES(N) | X | X | | | | | | | | | | | | | | | | | | | | | | |
| | •SAN JOSE | SCHOOL(R) | X | X | | | | | | | | | | | | | | | | | | | | | | |
| | •SAN RAMON | AUDITORIUM(R) | X | X | | | | | | | | | | | | | | | | | | | | | | |
| | •SANTA CLARA | CHURCH(N) | X | X | | | | | | | | | | | | | | | | | | | | | | |
| | | HOUSE(N) | X | X | | | | | | | | | | | | | | | | | | | | | | |

N : New R : Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | | | | |
|------|-------------------|-------------------|-----------|------------|-----------|-------|------------|---------------------------|---------------|-------------------------|---------------|-------------------|-------------------|---------------------------|---------------------------|
| | | | TYPE | COMMERCIAL | RESIDENT. | OTHER | | INSTRUMENTED SITES - NASA | | INDUSTRIAL PROCESS HEAT | | AGRICULTURAL | | INSTRUMENTED SITES - NASA | |
| | | | HOT WATER | HEATING | COOLING | NSF | PON, CYCLE | HOT WATER INITIATIVE | FEDERAL BLDG. | HUD / R F G A | FEDERAL BLDG. | TEST SITES - NASA | OPERATIONAL BLDG. | AGRICULTURAL | INSTRUMENTED SITES - NASA |
| | CALIFORNIA | | | | | | | | | | | | | | |
| | •SANTA CLARA | INDUST. BLDG. (N) | X | X | | | | X-2 | | | | | | | X |
| | •SANTA MONICA | AUDITORIUM(N) | X | X | | | X | | | | | X | | | |
| | •SANTA ROSA | HOUSE(R) | X | X | | | | | | | | X | X | | X |
| | •SARATOGA | MULTI-FAMILY(R) | X | X | | | | | | | | X | | | |
| | •SATICOY | APARTMENTS(2/N) | X | X | | | | | | | | X | | | |
| | •SELMA | HOUSE(N) | X | X | | | | | | | | X | | | |
| | •SONOMA | LIBRARY(N) | | X | | | | | | | | X | | | |
| | •SONORA | APARTMENTS(7/N) | X | X | | | | X-2 | | | | X | | | |
| | •SOUTH LAKE TAHOE | HOUSES(N) | | X | | | | | | | | X | | | |
| | •STANDFORD | HOUSE(R) | X | X | | | | | | | | X | | | |
| | •RAMONA | HOUSES(2/N) | | X | | | | | | | | X | | | |
| | •TRABUCO CANYON | FIRE STATION(R) | X | X | | | | X-1 | | | | | | | X |
| | | CAFETERIA(R) | X | X | | | | X-2 | | | | | | | |
| | | HOUSE(N) | X | X | | | | | | | | X | | | |
| | | HOUSE(2/N) | X | X | | | | | | | | X | | | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | |
|------|-------------------|------------------|-------------------|---------------|------------|---------------------|-------------------------|--------------------|------------------------|----------------------|-----------------------|--------------------|
| | | | TYPE | | COMMERCIAL | RESIDENT | OTHER | INSTRUMENTED SITES | INDUSTRIAL HEAT SITES | AGRICULTURAL PROCESS | TEST SITES - NASA | OPERATIONAL BLDG. |
| | | | HOT WATER HEATING | C O O L I N G | N S F | I N I T I A T I V E | F E D E R A L W A T E R | H U D R F G A | F E D E R A L B L D G. | I R F G A | INDUSTRIAL HEAT SITES | INSTRUMENTED SDA'S |
| | <u>CALIFORNIA</u> | | | | | | | | | | | |
| | •UPLAND | APARTMENTS(N) | X | | X | | | | | | | |
| | •WESTLAKE VILLAGE | SHOPPING MALL(N) | X | X | X | X-3 | | | | | | |
| | •YOSEMITE | COMMERCIAL | X | | | | | | | X | | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | | | | | | |
|------|-------------------|-----------------|--------------|---------|---------------------------------|-----|---------------------------------|--------------|------------------|--------------|---------|---------------|--------------------------|--------------|-----------------------|--------------------|-----------------------|
| | | | TYPE | | COMMERCIAL | | | RESIDENTIAL | | | OTHER | | | | | | |
| | | | HOT WATER | HEATING | C O O L I N G | NSF | P O N Y C L E | HOT WATER | FEDERAL BLDG. | HUD BLDG. | FEDERAL | TEST SITES | OPERA TIONS - NASA | AGRICULTURAL | INSTRUMENTED SITES | INDUSTRIAL HEAT | INSTRUMENTED SITES |
| | COLORADO | | | | | | | | | | | | | | | | |
| | •ARVADO | HOMES | X | X | | | | | | | | | | | | | X |
| | •AURORA | HOUSE(N) | X | X | | | X | | | | | | X | | | | X |
| | | HOUSE(6/N) | X | X | | | | | | | | | X | | | | X |
| | | SCHOOL(N) | X | X | | | | | | | | | X | | | | X |
| | •BOULDER | APARTMENTS(N) | X | X | | | | | | | | | X | | | | X |
| | | HIGH RISE(R) | X | X | | | | | | | | | X | | | | X |
| | | HOUSES(15/N) | X | X | | | | | | | | | X | | | | X |
| | | HOUSES(2/R) | X | X | | | | | | | | | X | | | | X |
| | | MULTI-FAMILY(N) | X | X | | | | | | | | | X | | | | X |
| | | OFFICES(N) | | | X | | | | | | | | | | | | |
| | | POST OFFICE(R) | X | X | | X | | | | | | | X | | | | X |
| | | HOUSES(7/N) | X | X | | | | | | | | | | X | | | X |
| | | HOUSE(N) | X | X | | | | | | | | | | X | | | X |
| | •CANON CITY | APARTMENT(N) | | | X | | | | | | | | | | | | |
| | •CARBONDALE | | | | | | | | | | | | | | | | |
| | •COLORADO SPRINGS | MULTI-FAMILY(R) | X | X | | X | | | | | | | | X | | | |
| | •DENVER | HOUSE(R) | X | X | | | | | | | | | X | | | | X |
| | | HOUSES(2/N) | X | X | | | | | | | | | | | | | X |

N : New R : Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

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| C O D E S T A T E - C I T Y | A P P L I C A T I O N - N / R | S Y S T E M | P R O G R A M S | R E S I D E N T I A L | O T H E R |
|----------------------------------|-------------------------------|-------------|---------------------|-----------------------|-----------|
| | | T Y P E | C O M M E R C I A L | | |
| <u>C O L O R A D O</u> | | | | | |
| • D E N V E R | H O U S E S (N) | X | X | | |
| | A P A R T M E N T S (R) | X | X | | |
| | W A R E H O U S E (R) | X | X | | |
| • E V E R G R E E N | H O U S E (N) | X | X | | |
| • F O R T C O L L I N S | H O U S E (5/N) | X | X | | |
| | O F F I C E S (R) | X | X | | |
| • F T . L U P T O N | G R E E N H O U S E | X | X | X | |
| • G R A N A D A | H O U S E (N) | X | X | X | |
| • G R A N B Y | H O U S E (R) | X | X | X | |
| • G R A N D J U N C - T I O N | H O U S E (N) | X | X | X | |
| • G R E E L E Y | C A F E T E R I A (N) | X | X | X | |
| • L A K E W O O D | H O U S E (N) | X | X | X | |
| • L I T T L E T O N | S C H O O L (R) | X | X | X | |
| • L O N G M O N T | O F F I C E S (N) | X | X | X | |
| | H O U S E (N) | X | X | X | |
| | M U L T I - F A M I L Y (N) | X | X | X | |

N : New R : Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | | | | | | | | |
|------|---------------|---------------------------|--------|------------|----------|-------|---|--------------------|--------------|-------------------|-------------|---------------|--------------|------------|------------------|-------------|-----|---------|---------|
| | | | TYPE | COMMERCIAL | RESIDENT | OTHER | INSTRUMENTED SITES - INDUS. PROCESS | INDUSTRIAL HEAT | AGRICULTURAL | TEST SITES - NASA | OPERATIONAL | FEDERAL BLDG. | FEDERAL RFGA | HUD / RFGA | WATER INITIATIVE | WATER CYCLE | NSF | COOLING | HEATING |
| | COLORADO | | | | | | | | | | | | | | | | | | |
| | •PUEBLO | HOUSE(R) BUILDING(DOT) | | X X | | | | | | X | | | | | | | | | |
| | •RIFLE | APARTMENT(N) | X X | | | | | | | X X | | | | | | | | | X |
| | •SALIDA | HOUSE(N) | X X | | | | | | | X X | | | | | | | | | |
| | •SAN LUIS | AUDITORIUM(R) | X X | | | X-3 | | | | X-3 | | | | | | | | | |
| | •SILVERTHRONE | HOUSES(5/N) | X X | | | X-3 | | | | X-3 | | | | | | | | | |
| | •TELLURIDE | SCHOOL(R) | X X | | | X-3 | | | | X-3 | | | | | | | | | |
| | •TRINIDAD | HOUSE(N) | X X | | | X-3 | | | | X-3 | | | | | | | | | |
| | •VAIL | OFFICE(N) | X X | | | X-3 | | | | X-3 | | | | | | | | | |
| | •WESTMINSTER | HOUSES(3/N) | X | | | | | | | | | | | | | | | | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | | | | | |
|------|---------------|-----------------|--------------|------------|---------------------------------|-------------|--------------------------------------|--------------------------------------|---|--------------------------------------|---|--|---|--|--|--|
| | | | TYPE | COMMERCIAL | RESIDENT. | OTHER | INSTRUMENTED | SITES-INDUSTRIAL | AGRICULTURAL | PROCESSUAL | OPERATIONAL | INSTRUMENTED | SITES-INDUSTRIAL | AGRICULTURAL | PROCESSUAL | |
| | | | HOT WATER | HEATING | C O O L I N G | N S F | P O N C Y C L E | H O T W A T E R | F E D E R A L B L D G | H U D R F G A | F E D E R A L B L D G | T E S T S I T E S - N A S A | D E V - O P E R A T I O N A L B L D G | I N S T R U M E N T E D S D A S | I N S T R U M E N T E D S D A S | I N S T R U M E N T E D S D A S |
| | CONNECTICUT | | | | | | | | | | | | | | | |
| | •BRANFORD | OFFICES(N) | X | X | | | | X-2 | | | | | | | | |
| | •BRIDGEPORT | HOUSE(R) | X | X | | | | | | | X | | | | | |
| | •CHESHIRE | APARTMENT(N) | X | X | | | | | | | X | | | | | |
| | | HOUSES(3/N) | X | X | | | | | | | X | | | | | |
| | •DANBURY | HOSPITAL(N) | X | X | | | | X-2 | | | | | | | | |
| | •GLASTONBURY | HOUSES(2/N) | X | X | | | | | | | X | | | | | |
| | •HAMDEN | APARTMENTS(2/R) | X | X | | | | | | | X | | | | | |
| | | APARTMENT(N) | X | X | | | | | | | X | | | | | |
| | •NEW HAVEN | AUDITORIUM(R) | X | X | | | | X | X-2 | | | | | | | |
| | | APARTMENT(N) | X | X | | | | | | | X | | | | | |
| | •NEW MILFORD | APARTMENT(4/R) | X | | | | | | | | X | | | | | |
| | •NORTH HAVEN | OFFICE(R) | | | | | | | X-3 | | | | | | | |
| | •OLD SAYBROOK | HOUSES(4/N) | X | X | | | | | | | X | | | | | |
| | •SHELTON | HOUSES(2/N) | X | X | | | | | | | X | | | | | |
| | •STAMFORD | OFFICE(R) | | | X | | | | X-3 | | | | | | | |
| | •TOLLAND | HOUSE(N) | X | X | | | | | | | X | | | | | |
| | •UNIONVILLE | HOUSE(N) | X | X | | | | | | | X | | | | | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | PROGRAMS | | | | | | | | | |
|--------------|--------------|---------------------------------|-----------------|--------------------------------------|----------------------------|---------------------------|------------------------------|--------------------------|-----------------------------------|-----------------------|--|--|
| | | | SYSTEM TYPE | COMMERCIAL | RESIDENT. | OTHER | | | | | | |
| HOT WATER | HEATING | C O O L I N G | N S F | P O N C Y C L E | HOT WATER INITIATIVE | FEDERAL WATER BLDG. | HUD R E F G A | FEDERAL TEST BLDG. | DEV- OPERATIONAL SITES-NASA | AGRICULTURAL BLDG. | INSTRUMENTED SITES-INDUSTRIAL HEAT | |
| | CONNECTICUT | •WEST HAVEN | MULTI-FAMILY(R) | X | X | | | | | X | | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM TYPE | | PROGRAMS | | | | | | | | | |
|------|--------------|-----------------|-------------------|---------------|------------|-----------|---------------|-------------|---------------|-------------------|------------------|--------------|-------------|----------------------------|
| | | | HOT WATER HEATING | C O O L I N G | COMMERCIAL | RESIDENT. | FEDERAL BLDG. | HUD R F G A | FEDERAL BLDG. | TEST SITES - NASA | INDUSTRY PROCESS | AGRICULTURAL | OPERATIONAL | INSTRUMENTED SITES - D A S |
| | DELAWARE | | | | | | | | | | | | | |
| | •BEAR | HOUSE(N) | X | | | | | | | X | | | | |
| | •NEW CASTLE | AUDITORIUM(N) | X | X | | | | | | | | | | |
| | •WILMINGTON | MULTI-FAMILY(N) | X | | | X-3 | | | | X | | | | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | | | | | | | | | |
|--------------|-----------------------------|---------------------------------|--------|--------------------------------------|----------------------------|---------------------------|--------------|-----------------|---------------|---------------|-------------|--------------|---------|----------|-------|------------|------|--------------|-------|------|
| | | | TYPE | | COMMERCIAL | RESIDENT. | OTHER | | | | | | | | | | | | | |
| HOT WATER | HEATING | C O O L I N G | NSF | P O N C Y C L E | HOT WATER INITIATIVE | FEDERAL WATER BLDG. | HUD BLDG. | FEDERAL RFGA | TEST SITES | DEV. BLDG. | OPERATIONAL | AGRICULTURAL | PROCESS | INDUSTRY | SITES | INDUSTRIAL | HEAT | INSTRUMENTED | SITES | DATA |
| | <u>DISTRICT OF COLUMBIA</u> | | | | | | | | | | | | | | | | | | X | |
| | BOLLING AFB | STORE(N) | X | X | X | | | | | | X | | | | | | | | | |
| | WASHINGTON | APARTMENT(N) | X | X | X | | X | | | | | X | | | | X | | | X | X |
| | | CAFETERIA(R) | X | | | | | | | | | | | | | | | | | |
| | | MULTI-FAMILY(N) | X | X | | | | | | | | | | | | | | | | |
| | | APARTMENT(R) | X | X | | | | | | | | | | | | | | | | |
| | | APARTMENT(R) | X | X | | | | | | | | | | | | | | | | |
| | | COMMERCIAL | X | X | X | X | | | | | | | | | | | | | | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | | | | | |
|------|-----------------|-----------------|--------------|--------------|---------------------------------|-------------|--------------------------------------|---|---|--------------------------------------|--------------------|-----------------------------|----------------------|-------------------|------------------------------------|---|
| | | | TYPE | | COMMERCIAL | RESIDENT. | OTHER | INSTRUMENTED | SITES-SDA'S | INDUSTRIAL | INSTRUMENTED | SITES-SDA'S | INDUSTRIAL | INSTRUMENTED | | |
| | | | HOT WATER | HEAT- ING | C O O L I N G | N S F | P O N C Y C L E | H O T W A T E R I N I T I V E | F E D E R A L B L D G | H U D I R F G A | TEST SITES-NASA | DEV: OPERA TIO NAL | AGRI CULTUR AL | PRO CESS ES | IND US TR IA L HEAT | INSTR UM EN TE D S I T E S - S D A 'S |
| | | <u>FLORIDA</u> | | | | | | | | | | | | | | |
| | •BRADENTON | PASTEURIZING | | | | | | | | | | | | | | |
| | •BRANDON | GYMNASIUM(R) | X | X | X | | | X-2 | | | | | | | X | |
| | •CAPE CANAVERAL | OFFICE(R) | X | X | | | | X-2 | | | | | | | | |
| | •CLERMONT | CAFETERIA(R) | X | | | | | | | X | | | | | | |
| | •CORAL GABLES | HOTEL/MOTEL(R) | X | | | X | X | | | | | | | | | |
| | •DAYTONA BEACH | SCHOOL(N) | X | | | | | | | | | | | | | |
| | •GAINESVILLE | MULTI-FAMILY(R) | X | | | | | | | | | | | | | |
| | | FOOD PROCESSING | | | | | | | | | | | | | | |
| | | APARTMENT(N) | X | X | | | | | | | | | | | | |
| | | APARTMENT(R) | X | | | | | | | | | | | | | |
| | | GRAIN DRYING | | | | | | | | | | | | | | |
| | •GRETNNA | HOUSES(N) | X | X | | | | | | | | | | | | |
| | •HALLANDALE | HOTEL/MOTEL(R) | X | | | | | | X | | | | | | | |
| | •HIALEAH | HOUSE(R) | X | | | | | | | | X | | | | | |
| | •JACKSONVILLE | VISITOR CENTER | | | X | X | | | | | | | | | | |
| | •KEY WEST | HOTEL/MOTEL(R) | X | | | | | | X | | | | | | X | |

N : New R : Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | | | |
|-------------------------|-------------------|-------------------|-----------------|---|---------------------------|-----------------|---------------------------|---------------------------------------|--------------------------------|-------------------------|----------------------------------|----------------|--|--|
| | | | TYPE | COMMERCIAL | RESIDENT. | OTHER | | INSTRUMENTED INDUSTRIAL PROCESS | | AGRICULTURAL | | SITES- HEAT | | |
| HOT WATER HEATING | C O O L I N G | N S F | P O N C Y C L E | H O T W A T E R I N I T I A T I V E | F E D E R A L B L D G. | H U D R F G A | F E D E R A L B L D G. | T E S T S I T E S - N A S A | D E V O P E R A T I O N A L | A G R I C U L T U R A L | I N S T R U M E N T E D D A S | | | |
| | <u>FLORIDA</u> | | | | | | | | | | | | | |
| | •KISSIMMEE | APARTMENT(R) | X | | | | | X | | | | | | |
| | •LAKE ALFRED | FOOD PROCESSING | | | | | | | | | | X | | |
| | •LAKE BUENA VISTA | OFFICE(N) | X | X | X | | | | | | | | | |
| | •LOKAHATCHEE | HOUSE | X | | | | X-1 | | | | | | | |
| | •MIAMI | MULTI-FAMILY(2/R) | X | | | | | | | X | | | | |
| | | HOUSES(2/N) | X | | | | | | | X | | | | |
| | | SCHOOL | X | X | | | | | | X | | | | |
| | •ST. PETERS-BURG | APARTMENT(R) | X | | | | | | X | | | | | |
| | •WINTER HAVEN | FOOD PROCESSING | | | | | | | | | | | | |
| | •WINTER SPRINGS | HOUSE(N) | X | X | X | | | | X | | | | | |
| | •YULEE | AUDITORIUM(R) | X | X | X | | X-1 | | | | | | | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | | | |
|------|----------------|-----------------|-------------------|---------------|------------|-----------|-------|--|------------------|-----------------------------|-------------------|------------------------|---------|------------|
| | | | TYPE | | COMMERCIAL | RESIDENT. | OTHER | INSTRUMENTED INDUSTRIAL SITES - NASA | INDUSTRY HEAT | AGRICULTURAL OPERATIONAL | TEST SITES - NASA | DEV-OPATIONAL BLDG. | FEDERAL | HUD RFGA |
| | GEORGIA | | HOT WATER HEATING | C O O L I N G | N S F | | | | | | | | | |
| | •ATHENS | POULTRY | | | X | | | | | | | | | X |
| | •ATLANTA | CROP DRYING | | | | X | X | X | | | | | | X X X X |
| | •BYRON | OFFICE | | | | X | X | | | | | | | |
| | •COLLEGE PARK | GREENHOUSE | | | | | | | | | | | | |
| | •Dacula | HOTEL/MOTEL | | | X | | | | | | | | | |
| | •DALTON | HOUSE(N) | | | X | X | | | | | | | | |
| | •DALTON | HOUSE(N) | | | X | X | X | | | | | | | |
| | •DECATUR | OFFICE(N) | | | X | X | | | | | | | | |
| | •DECATUR | APARTMENTS(2/R) | | | X | X | | | | | | | | |
| | •LAWRENCEVILLE | APARTMENTS(2/R) | | | X | X | | | | | | | | |
| | •LITHONIA | HOUSE (N) | | | X | X | | | | | | | | |
| | •LITHONIA | HOUSE(N) | | | X | X | | | | | | | | |
| | •MACON | MULTI-FAMILY(R) | | | X | | | | | | | | | |
| | •MARIETTA | OFFICE | | | X | X | X | | | | | | | |
| | •MARIETTA | HOUSE | | | X | | | | | | | | | |
| | •MARIETTA | HOUSE(3/N) | | | X | X | X | | | | | | | |
| | •NEWNAN | HOUSE | | | X | | | | | | | | | |
| | •NEWNAN | HOUSE | | | X | X | | | | | | | | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | OTHER |
|------|--------------|--|-------------------|---------------|-----------|---------|---------------|--------------|-------------------|-----------------------|-------|
| | | | TYPE | COMMERCIAL | RESIDENT. | FEDERAL | FEDERAL BLDG. | FEDERAL RFGA | TEST SITES - NASA | INDUSTRIAL HEAT SITES | |
| | GEORGIA | <ul style="list-style-type: none"> •SAVANNAH •SHENANDOAH •SWAINSBORO •THOMSON •TIFTON AUDITORIUM(R) GYMNASIUM(N) HOUSES(2/N) HOUSES(3/N) HOUSES(9/N) CROP DRYING TOBACCO CURING | HOT WATER HEATING | C O O L I N G | N S F | X X X | X | X-3 | X X X | X X | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM TYPE | | PROGRAMS | | | | | | | | | | | |
|------|--------------|--------------------|-------------|---|--------------|-----------|-----------|---------|-------------------------------|--------------|-------------------------|-------------------|--------------------------------|---------------|-------------|--------------|
| | | | | | COMMERCIAL | RESIDENT. | OTHER | | INSTRUMENTED SITES - INDUSTRY | | INDUSTRIAL HEAT PROCESS | | AGRICULTURAL OPERATIONS - NASA | | | |
| | | | | | CONSTRUCTION | COOLING | HOT WATER | HEATING | FEDERAL | HUD / R.F.C. | BLDG. | TEST SITES - NASA | BLDG. | DEVELOPMENTAL | OPERATIONAL | AGRICULTURAL |
| | HAWAII | | | | | | | | | | | | | | | |
| | •EWA BEACH | HOUSE(N) | | X | | | | | | | | X | | | | |
| | •HONOLULU | MULTI-FAMILY (3/N) | | X | | | | | | | | X | X | | | X |
| | | MULTI-FAMILY (3/R) | | X | | | | | | | | X | X | | | X |
| | •KANEOHE | HOTEL/MOTEL(R) | | X | | | | | | | | | | | | X |
| | •KONA | HOTEL/MOTEL(R) | | X | | | | | | | | | | | | X |
| | •WAIKOLOA | HOUSE(N) | | X | | | | | | | | | | | | X |
| | •WAIPAHU | HOTEL/MOTEL(R) | | X | | | | | | | | | | | | X |
| | | SCHOOL(N) | | X | | | | | | | | | | | | |
| | | APARTMENTS(R) | | X | | | | | | | | | | | | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | | | |
|--------------|--------------|---------------------------------|-------------|---|--|---|--------------------------------------|---|--|-----------------------|--|---|--|---|
| | | | TYPE | | COMMERCIAL | RESIDENT. | | | | | | | | |
| HOT WATER | HEATING | C O O L I N G | N S F | P O N Y C Y C L E | H O T W A T E R I N I T I A T I V E | F E D E R A L B L D G | H U D I R F G A | F E D E R A L B L D G | D E V - S I T E S - | N A S A - | A G R I C U L T U R A L | I N D U S T R I A L H E A T I N G S I T E S - | I N S T R U M E N T E D S D A S | |
| | IDAH0 | | | | | | | | | | | | | |
| | •BOISE CITY | SCHOOL(N) | X | X | | X-3 | | | | | | | | |
| | •IDAHO FALLS | HOUSE(N) | X | X | | | | | | X | | | | |
| | •POCATELLO | HOUSE(N) | X | X | | | | | | X | | | | |
| | •REXBURG | MULTI-FAMILY (R) | X | | | | | | | X | | | | |
| | | HOUSE(N) | X | X | X | | | | | | | | | X |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | PROGRAMS | | | | | | | | | | | |
|------|--------------|------------------|-------------------------|---------------------------------|-----------------------|------------|-----------|---------------|---------------|-------------------|--------------|--------------|------------|---------------|
| | | | SYSTEM TYPE | | COMMERCIAL | | RESIDENT | | OTHER | | | | | |
| | | | HOT WATER HEATING | C O O L I N G | P O N S F | INITIATIVE | HOT WATER | FEDERAL BLDG. | HUD R F G A | TEST SITES - NASA | AGRICULTURAL | INSTRUMENTED | INDUSTRIAL | SITES - D A S |
| | ILLINOIS | | | | | | | | | | | | | |
| | •ARGONNE | CAFETERIA(R) | X | | | | | | X | | | | | |
| | •BATAVIA | LABORATORY(R) | | X | X | | | | X | | | | | |
| | •BLOOMINGTON | HOUSE(N) | X | X | X | | | | | X | | | | |
| | •CHAMPAIGN | HOTEL/MOTEL | X | X | X | | | | | | | | | |
| | •CHICAGO | AUDITORIUM(R) | X | X | X | | | | | | | | | |
| | | HOTEL/MOTEL(R) | X | X | | X | | X-2 | | | | | | |
| | •JOLIET | MULTI-FAMILY (R) | X | | | | | | | | X | | | |
| | •KINGSTON | HOUSE(N) | X | X | | | | | | X | X | | | |
| | •LAKE FOREST | HOUSE(N) | X | X | | | | | | X | X | | | |
| | •MAHOMET | HOUSE(N) | X | X | | | | | | X | X | | | |
| | •MORTON | HOUSE(N) | X | X | | | | | | | X | | | |
| | •NORMAL | HOUSE | X | X | | | | | | | X | | | |
| | •ROCKTON | APARTMENT(2/N) | X | X | | | | | | | X | | | |
| | •ROSELLE | APARTMENT(N) | X | X | | | | | | | X | | | |
| | •SPRINGFIELD | OFFICE(N) | X | X | X | | | | X-3 | | | | | |
| | •ST. CHARLES | SCHOOL(N) | X | X | | | | X-2 | | | | | | X |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM TYPE | | PROGRAMS | | | | | | | | | | |
|------|---------------|----------------------------|-------------------------|---------------|------------|-----------------|------------------------------|---------------------------------|-----------------|------------------------|----------------------------|----------------------------------|-------------------------|----------------------|------------------------|
| | | | | | COMMERCIAL | | RESIDENT. | | OTHER | | INSTRUMENTED SITES - SDA'S | | INDUSTRIAL HEAT SITES | | |
| | | | HOT WATER HEATING | C O O L I N G | N S F | P O N C Y C L E | H O T WATER INITIATIVE | F E D E R A L WATER BLDG. | H U D R F G A | F E D E R A L BLDG. | T E S T SITES - NASA | D E V . O P E R A T I O N A L | A G R I C U L T U R A L | I N P R O C E S S | I N D U S T R I A L |
| | ILLINOIS | | | | | | | | | | | | | | |
| | •URBANA | HAY DRYING GRAIN DRYING | | | | | | | | | | | | | X |
| | •VERNON HILLS | HOUSE(N) | X | X | | | | | | X | | | | | XX |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM TYPE | | PROGRAMS | | | | OTHER | | | | | | | | | |
|------|----------------|-----------------|-------------------|---------|------------|-------------|---------|-----------|--------------|------------|-------------------|--------------|----------|-------|--------------|-----|-----------------|------|
| | | | HOT WATER HEATING | Cooling | COMMERCIAL | RESIDENTIAL | FEDERAL | HUD BLDG. | FEDERAL RFGA | TEST SITES | OPERATIONAL BLDG. | AGRICULTURAL | INDUSTRY | SITES | INSTRUMENTED | SDA | INDUSTRIAL HEAT | HEAT |
| | <u>INDIANA</u> | | | | | | | | | | | | | | | | | |
| | •BATESVILLE | HOUSE(N) | X | X | | | | | | | | X | | | | | | |
| | •CLARKSVILLE | GYMNASIUM(R) | | | X | X | | | | X-2 | | X | | | | | | |
| | •FORT WAYNE | HOUSE(N) | X | X | | | | | | | | X | | | | | | |
| | •FOUNTAIN TOWN | HOUSE(N) | X | X | | | | | | | | X | | | | | | |
| | •GARY | SCHOOL(N) | X | X | | | | | | X-2 | | X | | | | | | |
| | •GREENWOOD | HOUSE(N) | X | X | | | | | | | | X | | | | | | |
| | •INDIANAPOLIS | HOUSE(2/R) | X | X | | | | | | X-3 | | X | | | | | | |
| | | CLINIC(N) | | | | | | | | | | | | | | | | |
| | | HOTEL/MOTEL(R) | X | | | | | | | | | | | | | | | |
| | •LAFAYETTE | HOUSE(N) | | X | | | | | | | | X | | | | | | |
| | •LIBERTY | HOUSE(N) | X | X | | | | | | | | X | | | | | | |
| | •MERRIVILLE | HOTEL/MOTEL(N) | X | | | | | | | | X | | | | | | | |
| | •MUNCIE | HOUSE(N) | X | X | | | | | | | | X | | | | | | |
| | | APARTMENT(N) | X | X | | | | | | | | X | | | | | | |
| | •NEWBURGH | HOUSE(N) | X | X | | | | | | | | X | | | | | | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | | | |
|-----------|-----------------|-----------------|--------|-----------------|----------------------|---------------|-----------------|---------------|----------------------------|-------------|-------------------------|--|--------------|--|
| | | | TYPE | | COMMERCIAL | RESIDENT. | OTHER | | INSTRUMENTED SITES - SDA'S | | INDUSTRIAL HEAT PROCESS | | AGRICULTURAL | |
| HOT WATER | HEATING | C O O L I N G | N S F | P O N C Y C L E | HOT WATER INITIATIVE | FEDERAL BLDG. | H U D R F G A | FEDERAL BLDG. | TEST SITES - NASA | OPERATIONAL | AGRICULTURAL | | | |
| | <u>INDIANA</u> | | | | | | | | | | | | | |
| | •PERU | HOUSE(N) | X | X | | | | | | X | | | | |
| | •PLAINFIELD | MULTI-FAMILY(N) | X | X | | | | | | X | X | | | |
| | •TERRE HAUTE | HOUSE(2/N) | X | X | | | | | | X | X | | | |
| | •WEST LAFAYETTE | OFFICE(R) | | | | | X-3 | | | | | | | |
| | | FOOD PROCESSING | | | | | | | | | | | | |
| | | GREENHOUSE | | | | | | | | | | | | |
| | | GRAIN DRYING | | | | | | | | | | | | |
| | | SWINE BUILDING | | X | | | | | | | | | | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | | | | Industrial | | Sites | | Instrumented | | |
|------|------------------|--------------------|--------|---|------------|----------|-------|------------|-------|--------------|-----------|------|---------|--------------|-------------|------------|-------|---------------|--------------|---------------|---------------|
| | | | Type | | Commercial | Resident | Other | Industrial | Sites | Instrumented | Strategic | Heat | Process | Agricultural | Operational | Test Sites | NASA | Federal Bldg. | Hud R | Federal Bldg. | Federal Bldg. |
| | IOWA | | | | | | | | | | | | | | | | | | | | |
| | •AMES | GRAIN DRYING(2) | | | | | | | | | | | | | | | | | | | |
| | •COUNCIL BLUFFS | HOUSE(N) | X | X | | | | | | | | | | | | X | X | | | | |
| | •GLENWOOD | APARTMENT(N) | X | X | | | | | | | | | | | | X | X | | | | |
| | •IOWA CITY | HOUSE(N) | X | X | X | | | | | | | | | | | X | X | | | | X |
| | | POLICE STATION (N) | | X | X | X | | | | | | | | | | | | | | | |
| | •MARION | OFFICE(R) | | X | X | | | | | | | | | | | | | | | | |
| | •WEST BRANCH | GYMNASIUM | X | X | | | | | | | | | | | | | | | | | X |
| | •WEST DES MOINES | HOUSE(N) | X | X | | | | | | | | | | | | | | | | | X |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM TYPE | | PROGRAMS | | | | | | OTHER | | | |
|------------------|--------------|--|-------------------|---------------|----------|-----------|----------------------|---------------|---------------|--------------------|-------------------------------|--------------------|--------------|---------------------------------|
| | | | HOT WATER HEATING | C O O L I N G | NSF | PON:CYCLE | HOT WATER INITIATIVE | FEDERAL BLDG. | HUD R F G A | FEDERAL TEST BLDG. | DEMO-OPERATIONAL SITES - NASA | INDUSTRIAL PROCESS | AGRICULTURAL | INSTRUMENTED SITES - INDUSTRIAL |
| | KANSAS | | | | | | | | | | | | | |
| •DESOTO | | HOUSE(N) | X | X | | | | | | X | | | | |
| •GYPSUM | | SCHOOL(N) | X | X | | | | | | | | | | |
| •HUTCHINSON | | AUDITORIUM(N) | X | X | | | | | | | | | | |
| •KANSAS CITY | | WAREHOUSE(N) | X | X | | | | | | | | | | |
| •LAWRENCE | | MULTI-FAMILY | X | X | X | | | | | | | | | |
| •LEAVENWORTH | | OFFICE(N) | X | X | X | | | | | | | | | |
| •MANHATTAN | | MULTI-FAMILY(N) SWINE BUILDING GRAIN DRYING(2) | X | X | | | | | | X | | | | |
| •PAOLA | | HOUSE(N) | X | X | | | | | | X | | | | |
| •SHAWNEE MISSION | | HOUSE(N) | X | X | | | | | | X | | | | |
| •STILLWELL | | HOUSE(N) | X | X | | | | | | X | | | | |
| •TOPEKA | | APARTMENTS(N) | X | X | | | | | | X | | | | |
| | | OFFICE(N) | X | X | X | | | | | | | | | |
| | | OFFICE(R) | | | | | | | | | | | | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | PROGRAMS | | | | | | | | | | | | | | | |
|----------------|----------------------------|---|----------|---------------------|-----------------|---------------|----------|---------|-------------------|-----------------------|-------------------------|-------------------|-------------------------|-----------|---------------------|------------|---------------------|------|
| | | | SYSTEM | | COMMERCIAL | | RESIDENT | | OTHER | | | | | | | | | |
| Type | | Commercial | Resident | | | Federal | HUD | RFGA | Test Sites | Operational | Agricultural | In Process | Industrial | Sites | Heat | Industrial | Sites | Heat |
| HOT HEATING | WATER | C O O L I N G | N S F | I N I T I A T I V E | H O T W A T E R | F E D E R A L | H U D | R F G A | T E S T S I T E S | O P E R A T I O N A L | A G R I C U L T U R A L | I N P R O C E S S | I N S T R U M E N T E D | S I T E S | I N D U S T R I A L | S I T E S | I N D U S T R I A L | |
| | KENTUCKY | | | | | | | | | | | | | | | | | |
| | •GRAY HAWK | HOUSE(N) | X | X | | | | | | X | | | | | | | | |
| | •LAND BETWEEN THE LAKES | AUDITORIUM(N) | X | X | X | | | | | X | | | | | | | | |
| | •LEXINGTON | HOUSES(3/N) | X | X | | | | | | | X | | | | | | X | X |
| | •LOUISVILLE | TOBACCO CURING GRAIN DRYING OFFICE(R) | | X | | | | | X-1 | | | | | | | | | X |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM TYPE | | PROGRAMS | | | | | | | | | | |
|------|------------------|-----------------|-------------------|---------|------------|-----------|---------|-----|---------------|--------------|-------------------|--------------------------|--------------|----------|---------------------------|
| | | | HOT WATER HEATING | Cooling | COMMERCIAL | RESIDENT. | FEDERAL | HUD | FEDERAL BLDG. | FEDERAL RFGA | TEST SITES - NASA | DEVELOPMENT SITES - NASA | AGRICULTURAL | INDUSTRY | INSTRUMENTED SITES - NASA |
| | <u>LOUISIANA</u> | | | | | | | | | | | | | | |
| | •BATON ROUGE | HOUSE(R) | X | X | X | | | | | | X | | | | X |
| | •FORT POLK | GYMNASIUM(R) | X | X | X | | | | | | X | | | | X |
| | •NEW ORLEANS | STORE(N) | X | X | X | X-1 | | | | | X | | | | X |
| | | (R) | X | | | | | | | | | | | | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | PROGRAMS | | | | | | | | | | | | | | | |
|---------------|-----------------|-----------------|-------------------|---------|------------|-----|-------|----------------------|---------------|---------------|---------------|-------------------|-------------------|-----------------|--------------|----------|--------------------|-----|
| | | | SYSTEM TYPE | | COMMERCIAL | | | RESIDENT. | | | OTHER | | | | | | | |
| | | | HOT WATER HEATING | Cooling | NSF | PON | CYCLE | HOT WATER INITIATIVE | FEDERAL BLDG. | HUD R F G A | FEDERAL BLDG. | TEST SITES - NASA | OPERATIONAL BLDG. | DEVSITES - NASA | AGRICULTURAL | INDUSTRY | INSTRUMENTED SITES | SDA |
| MAINE | | | | | | | | | | | | | | | | | | |
| •BREWER | MULTI-FAMILY(R) | X | X | | | | | | | | | X | X | | | | | |
| •CORNISH | HOUSE(N) | X | X | | | | | | | | | | | | | | | |
| •HALLOWELL | (R) | X | X | | | | | | | | | | | | | | | |
| •HAMLIN | OFFICE(R) | | X | | | | | | | | | X | | | | | | |
| •HARPSWELL | HOUSE(N) | X | X | | | | | | | | | | X | X | | | | |
| •LEWISTON | MULTI-FAMILY(R) | X | X | | | | | | | | | | | | | | | |
| •LISBON FALLS | APARTMENTS(R) | X | X | | | | | | | | | | | | | | | |
| •ORONO | HOUSE(N) | X | X | | | | | | | | | | X | X | | | | |
| •PERRY | HOUSE(R) | X | X | | | | | | | | | | X | X | | | | |
| •PERRY | HOUSE(N) | X | X | | | | | | | | | | | | | | | |
| •TOGUS | HOUSE | X | X | | | | | | | | | | | | | | | |
| •WELLS | APARTMENTS(N) | X | X | | | | | | | | | | X | | | | | |
| •WINSLOW | SCHOOL(R) | X | X | | | | | | | | | | | | | | X | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM TYPE | | PROGRAMS | | | | OTHER | | | | | | | | | |
|------|----------------|-----------------|-------------|---------|---------------|-------------------------|-----------------------|---------------|-----------------|---------------|------------------------------|-----------------------|-------------------------|---------------------|-------------------------|---------------------|---------------------|---------|
| | | | HOT WATER | HEATING | C O O L I N G | C O N S E R V A T I O N | R E S I D E N T I A L | F E D E R A L | H U D R F G A | F E D E R A L | D E V . S I T E S - B L D G. | O P E R A T I O N A L | A G R I C U L T U R A L | I N D U S T R I A L | I N S T R U M E N T E D | S I T E S - S D A S | I N D U S T R I A L | H E A T |
| | MARYLAND | | | | | | | | | | | | | | | | | |
| | •ANNAPOLIS | HOTEL/MOTEL(R) | X | | | | | | X-1 | | | | | | | | | X |
| | •BALTIMORE | SCHOOL(N) | | X | X | | | | X-1 | | | | | | | | | X |
| | | FIRE STATION(N) | X | X | | | | | X-2 | | | | | | | | | X |
| | | HOUSES(2/N) | X | X | | | | | | | | X | X | | | | | X |
| | | HOUSES(5/R) | X | X | | | | | | | | | | | | | | X |
| | •BELTSVILLE | SHELTERS | | | | | | | | | | | | | | | | X |
| | •COCKEYSVILLE | SCHOOL(R) | | X | X | X | X | X | | | | X | X | | | | X | X |
| | •COLUMBIA | HOUSE(N) | X | X | | | | | | | | X | X | | | | X | X |
| | •DAMASCUS | HOUSE(N) | X | X | | | | | | | | | | | | | X | X |
| | •FT. MEADE | HOUSE | X | X | | | | | | | | | | | | | X | X |
| | •GAIITHERSBURG | OFFICE(N) | | X | X | | | | X-1 | | | | X | | | | | X |
| | •GREENBELT | APARTMENTS(R) | X | | | | | | | | | | | | | | | |
| | •GERMANTOWN | COLLEGE(N) | X | X | | | | | X-2 | | | | | | | | | |
| | •JARRETSVILLE | HOUSE(N) | X | X | | | | | | | | X | | | | | | |
| | •TIMONIUM | SCHOOL(R) | | X | X | X | X | X | | X-3 | | | | | | | | |
| | •TOWSON | DORMITORY(N) | X | X | | | | | | X-3 | | | | | | | | |
| | •UNION HILLS | OFFICE(R) | X | X | | | | | | X-3 | | | | | | | | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | | | | | | | | | | | | |
|----------------------|---|-----------------|-----------|------------|----------|-------|------------|-------|--------------|-----------|---------|------------|-------|------|------------|------------|-------|------|-------------|--------------|---------|----|------|
| | | | Type | Commercial | Resident | Other | Industrial | Sites | Instrumented | SDA | Heat | Industrial | Sites | Heat | Industrial | Sites | Heat | | | | | | |
| | | | Hot Water | Heating | Cooling | NSE | PON | Cycle | Initiative | Hot Water | Federal | BLDG. | HUD | RFGA | Federal | Test Sites | Bldg. | Dev. | Operational | Agricultural | Process | In | Heat |
| MASSACHUSETTS | | | | | | | | | | | | | | | | | | | | | | | |
| •AMHERST | COLLEGE(N) HOUSE(N) | X X X | | | | | | | X-2 | | | | X | | | | | | | | | | |
| •ARLINGTON | FOOD PROCESS- ING | X | | | | | | | | | | | | | | | X | | | | | | |
| •BOSTON | MULTI-FAMILY(N) HOSPITAL(R) AUDITORIUM(R) | X X X | | | | | | | X-2 | X-2 | X-2 | | X | | | | | | | | | | |
| •BOURNE | OFFICE(N) | X X | | | | | | | X-2 | | | | | | | | | | | | | | |
| •BREWSTER | HOUSE(N) | X X | | | | | | | X-2 | | | | X | | | | | | | | | | |
| •BRULINGTON | OFFICE(N) | X X | | | | | | | X-2 | | | | | | | | | | | | | | |
| •CONCORD | WAREHOUSE(R) APARTMENT(R) | X X | | | | | | | | | | | X | | | | | | | | | | |
| •COTUIT | HOUSE(N) | X X | | | | | | | | | | | X X | | | | | | | | | | |
| •DORCHESTER | SCHOOL(R) | X X | | | | | | | | | | | X | | | | | | | | | | |
| •EASTHAMPTON | APARTMENTS(R) | X X | | | | | | | | | | | X | | | | | | | | | | |
| •FALMOUTH | HOUSE(N) | X X | | | | | | | | | | | X X | | | | | | | | | | |
| •GLOUCESTER | MULTI-FAMILY(R) | X | | | | | | | | | | | X | | | | | | | | | | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM TYPE | | PROGRAMS | | | | | | | | | | | | |
|------|-------------------|--------------------|-------------------|---------|------------|------------|---------|-----|---------|-----|------------|----------|--------------|-------|------------|--------------|---------|
| | | | HOT WATER HEATING | Cooling | COMMERCIAL | PRESIDENT. | FEDERAL | HUD | FEDERAL | RFG | TEST SITES | INDUSTRY | INSTRUMENTED | SITES | INDUSTRIAL | AGRICULTURAL | PROCESS |
| | MASSACHUSETTS | | | | | | | | | | | | | | | | |
| | •GRANBY | APARTMENT(R) | X | | | | | | | | | X | | | | | |
| | •HAVERHILL | MULTI-FAMILY (2/R) | X | | | | | | | | | X | | | | | |
| | •LOWELL | APARTMENT(R) | X | X | | | | | | | | X | | | | | |
| | •MARION | HOUSE(N) | X | X | | | | | | | | X | | | | | |
| | •MEDWAY | HOUSES(2/N) | X | X | | | | | | | | X | | | | | |
| | | HOUSE(N) | X | X | | | | | | | | X | | | | | |
| | •MONUMENT BEACH | MULTI-FAMILY(R) | X | X | | | | | | | | X | | | | | |
| | •NEW BEDFORD | HOUSE(N) | X | X | | | | | | | | X | | | | | |
| | •NORTH DART-MOUTH | APARTMENTS(5/N) | X | X | | | | | | | | X | | | | | |
| | •NORTH EASTON | HOUSE(R) | X | X | | | | | | | | X | | | | | |
| | •NORTH HAMPTON | HOUSE(R) | X | X | | | | | | | | X | | | | | |
| | •QUINCY | MULTI-FAMILY(N) | X | | | | | | | | | X | | | | | |
| | | MULTI-FAMILY(R) | X | | | | | | | | | X | | | | | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | | | |
|------|-------------------|-----------------|--------|------------|--------------|---------------------------------|-------------|---------------------------------|---|---|--------------------------------------|---|--|---|
| | | | TYPE | COMMERCIAL | RESIDENT | | OTHER | | | | | | | |
| | | | | | HOT WATER | C O O L I N G | N S F | P O N Y C L E | H O T W A T E R I N I T I V E | F E D E R A L B U D G | H U D I R F C A | F E D E R A L B U D G | T E S T S I T E S - N A S A | A G R I C T U R A L O P E R A T I O N A L B U D G |
| 37 | MASSACHUSETTS | | | | | | | | | | | | | |
| | •RAYNHAM | APARTMENT(N) | X | | | | | | | | X | | | |
| | •SAUGUS | APARTMENT(N) | X | | | | | | | | X | | | |
| | •SPRINGFIELD | HOUSE(N) | X | X | | | | | | | X | | | |
| | •TEWKSBURY | GREENHOUSE | | | | | | | | | | | | X |
| | •WALTHAM | (R) | X | | | | | | | | | | | |
| | •WESTFIELD | MULTI-FAMILY(R) | X | | | | | | | | X | | | |
| | •WEST SPRINGFIELD | HOUSE(N) | | X | | | | | | | X | | | |
| | •WOLLASTON | (R) | X | X | | | | | | | X | | | |
| | •WORCESTER | MULTI-FAMILY(R) | | | | | | | | | X | | | X |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | PROGRAMS | | | | | | | | | | | | |
|-----------------|----------------------|-----------------|--------------|--------------|---------|------------|----------------|--------------|-----------------------|--------------|------------------|-------------------------|------------------|--------------|-------------------------------------|
| | | | SYSTEM TYPE | | | COMMERCIAL | | | RESIDENTIAL | | | OTHER | | | |
| | | | HOT WATER | HEAT- ING | COOLING | NSF | POLY- CYCLE | HOT WATER | FEDERAL INITIATIVE | HUD BLDG. | FEDERAL BLDG. | TEST SITES - NASA | DEV- OPMENTAL | AGRICULTURAL | INSTRUMENTED INDUSTRIAL SITES |
| MICHIGAN | | | | | | | | | | | | | | | |
| •BATTLE CREEK | MULTI-FAMILY(R) | X | | | | | | | | | | X | | | |
| •BENTON HARBOR | HOUSE(N) | X | X | | | | | | | | | X | | | |
| •CEDAR SPRINGS | APARTMENTS(R) | X | X | | | | | | | | | X | | | |
| •EAST LANSING | HOUSE(N) | X | X | | | | | | | | | X | | X | |
| | POULTRY | | | | | | | | | | | | | | |
| | FOOD PROCESS- ING | | | | | | | | | | | | | | |
| •FLINT | HOUSE(N) | X | X | | | | | | | | | X | | | |
| •KALAMAZOO | APARTMENT(N) | X | | | | | | | | | | X | | | |
| •LANSING | HOUSE | X | X | | | | | | | | | | X | | |
| •OKEMOS | HOSPITAL(N) | X | | | | | | | | | | | | | |
| •PETOSKEY | HOTEL/MOTEL(R) | X | | | | | | | | | | | | | |
| •SAGINAW | OFFICE(R) | X | X | | X | | | | | | | | | | |
| •TRAVERSE CITY | OFFICE(N) | X | X | | | | | | | | | | | | |
| •TROY | SCHOOL(N) | X | X | | | | | | | | | | | | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | | | | | | | | |
|--------------|---------------------|---------------------------------|--------|-----|--------------------------------------|----------------------------|------------------|------------|--------------|--------------------|-----------------|-----------------|-----------------|-------------|-------------------|-----------------|--------------------|-----------------|-----------------|
| | | | TYPE | | COMMERCIAL | RESIDENT. | OTHER | | INSTRUMENTED | SITES - INDUSTRIAL | INDUSTRIAL HEAT | INDUSTRIAL HEAT | AGRICULTURAL | PROCESS | TEST SITES - NASA | DEVSITES - NASA | OPERATIONAL | AGRICULTURAL | INSTRUMENTED |
| HOT WATER | HEATING | C O O L I N G | | NSF | P O N C Y C L E | HOT WATER INITIATIVE | FEDERAL BLDG. | HUD / RFGA | FEDERAL | TEST BLDG. | DEV BLDG. | TEST BLDG. | DEVSITES - NASA | OPERATIONAL | AGRICULTURAL | INSTRUMENTED | SITES - INDUSTRIAL | INDUSTRIAL HEAT | INDUSTRIAL HEAT |
| | <u>MINNESOTA</u> | | | | | | | | | | | | | | | | | | |
| | •APPLE VALLEY | HOTEL/MOTEL(N) | X | X | | X-2 | | | | | | | | | | | | | |
| | •BLOOMINGTON | HOUSE(N) | X | X | | X-1 | | | X | | X | | | | | | | | X |
| | •BLUE EARTH | INDUSTRY(R) | | | | | | | | | | | | | | | | | |
| | •BROOKLYN CENTER | SCHOOL (R) | X | X | | X | | | | | | | | | | | | | |
| | •CAMBRIDGE | HOUSE(N) | X | X | | | | | | | | | | | | | | | |
| | •DULUTH | HOTEL/MOTEL(R) | X | X | | | | | | | | | | | | | | | |
| | •EDEN PRAIRIE | HOUSE(N) | X | X | | | | | | | | | | | | | | | |
| | •FERGUS FALLS | HOUSE(N) | X | X | | | | | | | | | | | | | | | |
| | •HIBBING | AUDITORIUM(N) | | | | | | | | | | | | | | | | | |
| | •HUTCHINSON | HOUSE(N) | | | | | | | | | | | | | | | | | |
| | •MAPLE GROVE | HOUSE(2/N) | X | X | | | | | | | | | | | | | | | |
| | | HOUSE(N) | X | X | | | | | | | | | | | | | | | |
| | | HOUSE(N) | X | X | | | | | | | | | | | | | | | |
| | •MEDINA | HOUSE(N) | X | X | | | | | | | | | | | | | | | |
| | •MINNEAPOLIS | MULTI-FAMILY(N) | X | X | | | | | | | | | | | | | | | |
| | | HOUSE | X | X | | | | | | | | | | | | | | | |

N : New R : Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM TYPE | | PROGRAMS | | | | | | | | | | | |
|------|------------------|-----------------------|-------------------|---------|------------|-----------|----------------------|----------|-----|-------------------|-------------------|-------------------|---------------------------|-----------------|----------------------|------------------|
| | | | HOT WATER HEATING | Cooling | COMMERCIAL | | | RESIDENT | | OTHER | | | | | | |
| | | | | | NSF | PON:CYCLE | HOT WATER INITIATIVE | FEDERAL | HUD | FEDERAL R F G A | TEST SITES - NASA | OPERATIONAL BLDG. | INSTRUMENTED SITES - NASA | INDUSTRIAL HEAT | AGRICULTURAL PROCESS | INSTRUMENTED SDA |
| | MINNESOTA (cont) | | | | | | | | | | | | | | | |
| | •MINNEAPOLIS | HOUSE(N) BOOKSTORE | X | X | X | X | | | | X | | | | | X | |
| | •MINNETONKA | HOUSE(N) | X | X | | | | | | X | | | | | | |
| | •O'BRIEN PARK | HOUSE | X | X | | | | | | | | | X | | | |
| | •PLYMOUTH | OFFICE(N) | X | X | | | | | | | | | | | | |
| | •ST. PAUL | OFFICE(N) | X | X | | | | | | | | | | | | |
| | •SAUK RAPIDS | HOUSE(N) | X | X | | | | | | | | | | | X | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | | | |
|------|--------------|--|---|---|------------|----------|---|-------|-----|---|--|--|--|---|
| | | | TYPE | | COMMERCIAL | RESIDENT | | OTHER | | | | | | |
| | MISSISSIPPI | <ul style="list-style-type: none"> • CANTON • CLARKSDALE • CLINTON • GREENWOOD • STARKVILLE | LUMBER DRYING HOUSES(2/N) OFFICE(N) | X | X | | | | | X | | | | X |
| | | | HOUSE ARMY OFFICE(N) | X | X | X | X | X-3 | X-3 | | | | | X |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | | | | | | | | |
|------|---------------|-----------------|-----------|---------|------------|-------------|------------|-------------------|---------------|------------|--------------|------------|----------------------------|-------------|---------|--------------|-------|------------|------|
| | | | TYPE | | COMMERCIAL | RESIDENTIAL | FEDERAL | TEST SITES - NASA | AGRICULTURAL | INDUSTRIAL | INSTRUMENTED | SITES | INDUSTRIAL | HEAT | | | | | |
| | | | HOT WATER | HEATING | Cooling | NSF | PON. CYCLE | HOT WATER | FEDERAL BLDG. | HUD | FEDERAL | TEST BLDG. | DEMONSTRATION SITES - NASA | OPERATIONAL | PROCESS | INSTRUMENTED | SITES | INDUSTRIAL | HEAT |
| | MISSOURI | | | | | | | | | | | | | | | | | | |
| | •BARNHART | HOUSE(N) | X | X | | | | | | | X | | | | | | | | |
| | •COLUMBIA | HOUSES(N) | X | X | | | | | | | X | | | | | | | X | |
| | •GLADSTONE | OFFICE(N) | | | | | | | | | | | | | | | X | X | |
| | •GLADSTONE | HOUSES(2/N) | X | X | | | | | | | | | | | | | X | X | |
| | •GLADSTONE | HOUSE(N) | X | X | | | | | | | | | | | | | X | X | |
| | •KANSAS CITY | FIRE STATION(N) | X | X | | | | | | | | | | | | | X | X | |
| | •POPLAR BLUFF | HOUSE(N) | X | X | | | | | | | | | | | | | X | X | |
| | •RICHMOND | HOUSE(N) | X | X | | | | | | | | | | | | | X | X | |
| | •ST. LOUIS | APARTMENTS(N) | X | X | | | | | | | | | | | | | X | X | |
| | •ST. LOUIS | MULTI-FAMILY(R) | X | X | | | | | | | | | | | | | X | X | |
| | •SPRINGFIELD | OFFICE(R) | X | X | | | | | | | | | | | | | | | |
| | •SPRINGFIELD | HOUSE(N) | X | X | | | | | | | | | | | | | | | |
| | •WAVERLY | EDUCATIONAL(N) | | | | | | | | | | | | | | | | | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | | | | | | |
|--------------|--------------|---------------------------------|--------|---------------------------------|----------------------------|------------------|------------|--------------|------------|------------|--------------|-------------|-------------------|---------------------|-------------|-------------------|---------------------|
| | | | Type | | COMMERCIAL | RESIDENTIAL | OTHER | INSTRUMENTED | SITES | INDUSTRIAL | AGRICULTURAL | OPERATIONAL | TEST SITES - NASA | DEVEL. SITES - NASA | FEDERAL | HUD / RFGA | TEST BLDG. |
| HOT WATER | HEATING | C O O L I N G | NSF | P O N Y C L E | HOT WATER INITIATIVE | FEDERAL BLDG. | HUD / RFGA | FEDERAL | TEST BLDG. | BLDG. | INSTRUMENTED | SITES | INDUSTRIAL | AGRICULTURAL | OPERATIONAL | TEST SITES - NASA | DEVEL. SITES - NASA |
| | MONTANA | | | | | | | | | | | | | | | | |
| | •BIG FORK | HOUSE(N) | X | X | | | | | | | X | | | | | | X |
| | •BILLINGS | OFFICE(N) | | X | | | | | | | | | | | | | X |
| | •BOZEMAN | OFFICE(N) | | X | | | | | | | | | | | | | X |
| | •CUT BANK | HOUSE(N) | X | X | | | | | | | | | | | | | X |
| | •HARLEM | APARTMENT(N) | X | X | | | | | | | | | | | | | X |
| | •KALISPELL | HOUSE(N) | X | X | | | | | | | | | | | | | X |
| | •LAME DEER | HOUSE(N) | X | X | | | | | | | | | | | | | X |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | | | | | | | | | |
|------|--------------|-----------------|--------------|------------|----------|-------|---------------|--------------|------------------|--------------|-----------------|---------------|----------------------|-------------|--------------|---------|------------|------|-------|--------------|
| | | | TYPE | COMMERCIAL | RESIDENT | OTHER | INSTRUMENTED | SITES | INDUSTRIAL | AGRICULTURAL | PROCESS | INDUSTRIAL | HEAT | SITES | INSTRUMENTED | SITES | INDUSTRIAL | | | |
| | | | HOT WATER | HEATING | COOLING | NSF | PON. CYCLE | HOT WATER | FEDERAL BLDG. | HUD BLDG. | FEDERAL RFGA | TEST BLDG. | DEN. SITES - NASA | OPERATIONAL | AGRICULTURAL | PROCESS | INDUSTRIAL | HEAT | SITES | INSTRUMENTED |
| | NEBRASKA | | | | | | | | | | | | | | | | | | | |
| | •CALLAWAY | APARTMENT(N) | X | X | | | | | | | | X | | | | | | | | |
| | •HASTINGS | YMCA(N) | X | X | | | | | | | | | | | | | | | | |
| | •LINCOLN | OFFICE(N) | X | X | | | | | | | | | | | | | | X | | |
| | | HOUSE(2/N) | X | X | | | | | | | | X-3 | | | | | | | | |
| | | SWINE HOUSE | | | | | | | | | | X-2 | | | | | | | | |
| | •OMAHA | HOUSE | X | X | | | | | | | | | | | | | | | | |
| | | MULTI-FAMILY(R) | X | X | | | | | | | | | | | | | | | | |
| | •PLATTSMOUTH | HOUSE(N) | X | X | | | | | | | | | | | | | | | | |
| | •WAVERLY | APARTMENTS(4/N) | X | X | | | | | | | | | | | | | | | | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | | | | | | | | | |
|------|--------------|-----------------|----------------|-----------------|------------|-------------|-------|---------------------------|-------------------------|----------------------|-----------------|-------------------|---------------|---------------|---------------|------------|-----|---------------|---------------|-----------------|
| | | | TYPE | | COMMERCIAL | RESIDENTIAL | OTHER | INSTRUMENTED SITES - NASA | INDUSTRIAL SITES - NASA | AGRICULTURAL PROCESS | INDUSTRIAL HEAT | TEST SITES - NASA | FEDERAL BLDG. | FEDERAL WATER | FEDERAL BLDG. | HUD / RFGA | NSF | C O O L I N G | H E A T I N G | H O T W A T E R |
| | NEVADA | | •LAS VEGAS | HOT | X | | | | | | | | | | | | | | | |
| | | | •MERCURY | HEATING | X | X | X | | | | | | | | | | | | | X |
| | | | •RENO | COOLING | X | | | | | | | | | | | | | | | |
| | | | •SILVER KNOLLS | NSF | X | X | | | | | | | | | | | | | | |
| | | | HOUSE(N) | POWERSYCLE | | | | | | | | | | | | | | | | |
| | | | | INITIATIVE | | | | | | | | | | | | | | | | |
| | | | | HOT WATER CYCLE | | | | | | | | | | | | | | | | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | S Y S T E M T Y P E | P R O G R A M S |
|---------------|----------------------|-----------------|------------------------|-----------------|
| | <u>NEW HAMPSHIRE</u> | | | |
| •CLAREMONT | MULTI-FAMILY(N) | X | HOT WATER | |
| •DURHAM | LABORATORY(R) | X | HEAT LINE | |
| •EAST DERRY | HOUSE(N) | X | COMMERCIAL | |
| •HARRISVILLE | HOUSE(N) | X | INITIATIVE | |
| •JAFFREY | OFFICE(N) | X | HOT WATER | |
| •KEENE | HOUSES(2/N) | X | FEDERAL BLDG. | |
| •MANCHESTER | WAREHOUSE(R) | X | HUD/LRFG | |
| | GYMNASIUM(N) | X | FEDERAL BLDG. | |
| | OFFICE(R) | X | TEST SITES - NASA | |
| ◦NASHUA | HOUSE | X | DEV-OPEARTIONAL | |
| ◦NEW IPSWICH | HOUSE(N) | X | AGRICULTURAL | |
| ◦NORTH CONWAY | HOUSES(2/N) | X | PROCESS HEAT | |
| ◦NORTHFIELD | HOUSE(N) | X | INDUSTRIAL | |
| | HOUSE(N) | X | SITES - SDA | |
| | APARTMENTS(N) | X | INSTRUMENTED | |
| | HOUSE(N) | X | | |

N : New R : Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | | | | | | |
|-------------------------|---------------------------------|--------------------|--------------------------------------|---|---|--------------------------------------|---|--|------------------|---|--|-----------------------|--|--|--|----------------------|---|
| | | | TYPE | | COMMERCIAL | RESIDENT. | OTHER | | | INSTRUMENTED SITES - NASA | | | INDUSTRIAL HEAT SITES | | | AGRICULTURAL PROCESS | |
| HOT WATER HEATING | C O O L I N G | N S F | P O N C Y C L E | H O T W A T E R I N I T I V E | F E D E R A L B U D G | H U D I R F G A | F E D E R A L B U D G | T E S T S I T E S - N A S A | B L D G | D E V - O P E R A T I O N A L | I N S T R U M E N T E D S I T E S - | S I D A S | I N S T R U M E N T E D S I T E S - | I N S T R U M E N T E D S I T E S - | | | |
| | NEW JERSEY | | | | | | | | | | | | | | | | |
| | •ALLAIRE STATE PARK | HOUSE | X | X | X | | | | | | | | | | | X | |
| | •ALLEN TOWN | GREENHOUSE | X | X | X | X | X | | | | | | | | | | X |
| | •BASKING RIDGE | AUDITORIUM(N) | X | X | X | X | X | | | | | | | | | | |
| | •BLACKWOOD | HOUSES(2/N) | X | X | | | | | | | | | | | | X | |
| | •CHERRY HILL | HOTEL/MOTEL(R) | X | X | | | | | | | | | | | | X | |
| | •DOVER | MULTI-FAMILY(R) | X | | | | | | | | | | | | | X | |
| | •FLORHAM PARK | OFFICE(N) | | | | | | | | | | | | | | | |
| | •HARDWICK TOWNSHIP | SCHOOL(N) | X | X | | | | | | | | | | | | | |
| | •HOBOKEN | MULTI-FAMILY (2/N) | X | X | X | X | X | | | | | | | | | X | |
| | •LONG BEACH | RESTAURANT(N) | X | X | X | X | X | | | | | | | | | X | |
| | •LUMBERTON | INDUSTRY(R) | | | | | | | | | | | | | | X | |
| | •MOORESTOWN | CLINIC(N) | X | X | | | | | | | | | | | | | |
| | •NEWARK | APARTMENT(R) | X | | | | | | | | | | | | | | |
| | | HOUSES(2/N) | X | | | | | | | | | | | | | | |
| | | HOUSE (N) | X | | | | | | | | | | | | | | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | | | | INSTRUMENTED SITES | | | | INDUSTRIAL PROCESS | |
|------|-------------------|-----------------|-----------|---------|------------|-----------|-----------|----------------------|---------------|------------|---------------|------------|--------------|------------|--------------------|--------------------|--------------|-------------------------------|-----------------------|------|
| | | | TYPE | | COMMERCIAL | RESIDENT. | OTHER | | | | | | | | | | | | | |
| | | | HOT WATER | HEATING | Cooling | NSF | PON:CYCLE | HOT WATER INITIATIVE | FEDERAL BLDG. | HUD RFGA | FEDERAL BLDG. | TEST BLDG. | AGRICULTURAL | INDUSTRIAL | INSTRUMENTED SITES | INDUSTRIAL PROCESS | AGRICULTURAL | OPERATIONAL TEST SITES - NASA | DEV. SITES - INDUSTRY | HEAT |
| | <u>NEW JERSEY</u> | | | | | | | | | | | | | | | | | | | |
| | •OLD BRIDGE | HOUSE(N) | X | X | | | | | | | | | | | | | | | | |
| | •ORANGE | MULTI-FAMILY(R) | X | | | | | | | | | | | | | | | | | |
| | •SOUTH BRUNSWICK | HOUSE(N) | X | X | | | | | | | | | | | | | | | | |
| | •TINTON FALLS | CLINIC(N) | X | X | | | | | | | | | | | | | | | | |
| | •TRENTON | COLLEGE(R) | X | X | | | | | | | | | | | | | | | | X |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | | | | OTHER |
|------|----------------|-----------------|--------------|---------|---------------------------------|-------------|---|--------------|------------------|-------------------|--------------|---|------------------------------------|---|-------|
| | | | TYPE | | COMMERCIAL | RESIDENT. | FEDERAL | HUD | FEDERAL | TEST SITES | AGRICULTURAL | INSTRUMENTED | IND U ST RI AL HEAT | DE V. OP ER AT ION AL SITES - NASA | |
| | | | HOT WATER | HEATING | C O O L I N G | N S F | P O N Y C Y C L E | HOT WATER | FEDERAL BLDG. | IR F G A | BLDG. | DE V. OP ER AT ION AL SITES - NASA | IND U ST RI AL HEAT | DE V. OP ER AT ION AL SITES - NASA | |
| | NEW MEXICO | | | | | | | | | | | | | | |
| | •ALBUQUERQUE | MULTI-FAMILY(N) | X | | | | | | | | X | | | | X |
| | | MULTI-FAMILY(N) | | X | | | | | | | X | | | | X |
| | | HOUSE(N) | X | X | | | | | | | X | | | | X |
| | | APARTMENTS(N) | X | X | | | | | | | X | | | | X |
| | | HOUSE(N) | X | X | | X | | | | | X | | | | X |
| | | OFFICE(N) | | X | | | | | | | | | | | |
| | | OFFICE(R) | | X | | | | | | | | | | | |
| | | OFFICE(N) | X | X | | | | | | | | | | | |
| | •BREAD SPRINGS | EDUCATIONAL(R) | X | X | | | | | | | X | | | | |
| | •CARLSBAD | HOUSE | X | X | | | | | | | | | | | |
| | •EL DORADO | HOUSE(N) | X | X | | | | | | | | X | | | |
| | •KIRTLAND AFB. | STORE(N) | X | X | X | | | | | | X | | | | |
| | •LAS CRUCES | UNIVERSITY(N) | | X | X | X | | | | | | | | | |
| | | HOTEL/MOTEL(R) | X | X | X | | | | | | | | | | |
| | | OFFICE(R) | X | X | X | | X | | | | | | | | |
| | •NAMBRE | AUDITORIUM(N) | | X | X | | X | | | | | | | | |
| | •RIO RANCHO | HOUSE(N) | X | X | | | | | | | | X | | | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | | | | | | |
|------|---------------|-----------------|-----------|---------|------------|-------------|------------|----------------------|---------------|-----------|--------------------|------------------------|-------------------|------------------|--------------------|-----------------|------|
| | | | TYPE | | COMMERCIAL | RESIDENTIAL | | OTHER | | | | | | | | | |
| | | | HOT WATER | HEATING | Cooling | NSF | PON. CYCLE | HOT WATER INITIATIVE | FEDERAL BLDG. | HUD BLDG. | FEDERAL TEST SITES | DEV. OPERATIONAL BLDG. | AGRICULTURAL NASA | INDUSTRY PROCESS | INSTRUMENTED SITES | INDUSTRIAL HEAT | ISDA |
| | NEW MEXICO | | | | | | | | | | | | | | | | |
| | •SANTA FE | HOUSES(5/N) | X | X | | | | | | | | X | | | | | |
| | •SANTA TERESA | HOUSES(4/N) | X | X | | | | | | | | X | | | | | |
| | •TAOS | OFFICE(N) | | X | | | | x-2 | | | | | | | | | X |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | | | | |
|------|----------------|--|--------------|---------|---------------------------------|-------------|--------------------------------------|--------------|------------------|------------------|----------|--------------|--------------|---------|------|
| | | | TYPE | | COMMERCIAL | RESIDENT. | FEDERAL | HUD | FEDERAL | TEST SITES | INDUSTRY | INSTRUMENTED | | | |
| | | | HOT WATER | HEATING | C O O L I N G | N S F | P O N C Y C L E | HOT WATER | FEDERAL BLDG. | R F G A | BUDG. | SITES - NASA | AGRICULTURAL | PROCESS | DATA |
| | NEW YORK | | | | | | | | | | | | | | |
| | •BALLSTON SPA. | HOUSE(N) SCHOOL(R) | X | X | | | | | x-2 | | X | | | | X |
| | •BEDFORD | HOUSES(6/N) | X | X | | | | | x-2 | | X | | | | |
| | •BOHEMIA | OFFICE(R) | | X | | | | | | | | | | | |
| | •BRONX | MULTI-FAMILY (2/R) | X | | | | | | | | | | X | | |
| | •BROOKLYN | APARTMENTS(R) APARTMENTS(R) HOUSE(R) | X | X | | | | | | | | X | X | | |
| | •CARMEL | HOUSES(3/N) | X | X | | | | | | | X | X | | | |
| | •CHESTER | HOUSE(N) | X | X | | | | | | | X | X | | | |
| | •CORAM | HOUSE(N) | | X | | | | | | | X | X | | | |
| | •HAMBURG | HOUSE(N) | X | X | | | | | | | X | | | | |
| | •ITHACA | GREENHOUSE | | | X | | | | | | | | | | |
| | •KEW GARDENS | MULTI-FAMILY(R) | X | | | | | | | | | X | | | |
| | •LAGRANGEVILLE | HOUSE(N) | X | X | | | | | | | | | | | |
| | •LYNBOOK | OFFICE(R) | X | X | | | | | x-3 | | | | | | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | | | |
|--------------|----------------|---------------------------------|------------------|---|----------------------------|------------------|--------------|-----------------|---|------------------|-----------------------------------|---------------|-----------------------------|-----------------------------|
| | | | TYPE | | COMMERCIAL | RESIDENTIAL | OTHER | | INSTRUMENTED SITES | | INDUSTRIAL HEAT SITES | | TEST SITES - NASA | INST RUM ENTED DAS |
| HOT WATER | HEATING | C O O L I N G | N S F E | P O N O M A C Y C L E | HOT WATER INITIATIVE | FEDERAL BLDG. | HUD BLDG. | FEDERAL RFGA | DE V- OP ER AT ION AL | AGRICULTUR AL | PRO CESS INDU STRI AL | HEAT SITES | INST RUM ENTED DAS | |
| | NEW YORK | | | | | | | | | | | | | |
| | •MILLBROOK | OFFICE(N) | X | X | | X-2 | | | | | | | | |
| | •NEW ROCHELLE | LIBRARY(N) | X | X | | X-2 | | | | | | | | |
| | •NEW YORK | MULTI-FAMILY (5/R) | X | | X | X-3 | | | | X | | | | |
| | | MULTI-FAMILY(R) | X | | | | | | | X | | | | |
| | | MULTI-FAMILY(N) | X | | | | | | X | X | | | | |
| | | APARTMENTS(R) | X | X | | | | | X | X | | | | |
| | •PONOMA | HOUSE(N) | X | X | | | | | X | X | | | | |
| | •STATEN ISLAND | INDUSTRIAL(R) | | X | X | X-3 | | | | | | | | |
| | •TROY | STORE(N) | | X | X | X-2 | | | | | | | | |
| | •UPTON | LABORATORY(R) | X | X | | | | | | | | | | |
| | •WHITESTONE | APARTMENTS(R) | X | | | | | | X | | | | | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM TYPE | | PROGRAMS | | | | | | | | | | | | |
|------|-----------------------|--|-------------|---------|----------|-----|----------|----------------------|---------|-----|---------|------|-------------------|------------------|--------------|------------|---------|
| | | | HOT WATER | HEATING | COOLING | NSF | RONCYCLE | HOT WATER INITIATIVE | FEDERAL | HUD | FEDERAL | RFGA | TEST SITES - NASA | DEV-SITES - NASA | AGRICULTURAL | INDUSTRIAL | PROCESS |
| | <u>NORTH CAROLINA</u> | | | | | | | | | | | | | | | | |
| | • CHARLOTTE | SCHOOL(R) HOTEL/MOTEL(R) | X | X | | | | X-1 | | X | | | | | | | X |
| | • COLUMBUS | HOUSE(N) | X | X | | | | | | | | | X | X | | | |
| | • DURHAM | APARTMENTS(N) | X | X | | X | | | | | | | X | X | | | |
| | • FAYETTEVILLE | HOUSE(N) | X | X | | X | | | | | | | X | X | | | |
| | • MURPHY | COMMERCIAL | X | X | | X | | | | | | | X | X | | | X |
| | • PINEHURST | HOUSE(N) | X | X | | | | | | | | | X | X | | | |
| | • PINEVILLE | HOUSE(N) | X | X | | | | | | | | | X | X | | | |
| | • PITTSBORO | HOUSE(N) | | | X | | | | | | | | X | X | | | |
| | • RALEIGH | TOBACCO CURING PEANUT DRYING GREENHOUSES | | | X | | X | | | | | | | | X | X | X |
| | • SALISBURY | HOUSE | X | X | | X | | | | | | | | | | | |
| | • TROY | SCHOOL(N) | X | X | | X | | | | | | | | | | | |
| | • WINSTON-SALEM | HOUSE(N) | | | | | | | X-3 | | | | | | | | X |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | | | | | | | |
|------|--------------|-----------------|---------|-----|------------|-----------|---------------|------|---------|--------------|-------------|---------------|--------------|--------------|-------|----------|-------|------|
| | | | TYPE | | COMMERCIAL | RESIDENT. | FEDERAL | TEST | OTHER | INSTRUMENTED | SITES | INDUSTRY | SITES | HEAT | | | | |
| HOT | WATER | HEATING | Cooling | NSF | PON:CYCLE | HOT WATER | FEDERAL BLDG. | HUD | R F G A | BLDG. | OPERATIONAL | DEVSITES-NASA | AGRICULTURAL | INSTRUMENTED | SITES | INDUSTRY | SITES | HEAT |
| | NORTH DAKOTA | | | | | | | | | | | | | | | | | |
| | •BISMARCK | OFFICE(R) | X | X | | | | | | | | | | | | | | |
| | •GRAND FORKS | HOUSES(3/N) | X | X | | | | | | | | | | | | | | |
| | •JAMESTOWN | COLLEGE(N) | X | X | | | | | | | | | | | | | | |
| | | | | | | X | | X-3 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | S Y S T E M T Y P E | P R O G R A M S | R E S I D E N T |
|------|--------------|-----------------|--|-----------------|-----------------|
| | OHIO | | HOT WATER HEAT RE COOLING SOLAR ON-CYCLE INITIATIVE HOT WATER FEDERAL BLDG. | | |
| | •AKRON | HOUSE | X | | |
| | •AUSTINTOWN | HOUSES(4/N) | X | | |
| | •BOARDMAN | HOUSE(N) | X | | |
| | •CANTON | HOUSES(4/N) | X | | |
| | •CINCINNATI | HOUSE(N) | X | | |
| | •CLEVELAND | HOUSE(R) | X | | |
| | •COLUMBUS | HOUSE(N) | X | | |
| | | HOUSES(2/N) | X | | |
| | | HOUSE(N) | X | | |
| | | OFFICE(R) | X-2 | | |
| | •DUBLIN | COLLEGE(N) | X-2 | | |
| | •FAIRFIELD | HOUSES(4/N) | X | | |
| | •FINDLAY | HOUSE(N) | X | | |
| | •HUBBARD | HOUSE(N) | X | | |
| | •MARIETTA | HOUSE(N) | X | | |
| | •MIAMISBURG | LABORATORY(R) | X | | |

N : New R : Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | | | | | | | | | |
|------|------------------|-----------------|--------------|---------|------------|-----------|-----------|--------------|------------------|------------|--------------|------------|-------------|--------------|---------|------------|------------|------------|------|------------|
| | | | TYPE | | COMMERCIAL | RESIDENT. | OTHER | INSTRUMENTED | SITES | INDUSTRIAL | INSTRUMENTED | INDUSTRIAL | HEAT | INDUSTRIAL | HEAT | INDUSTRIAL | | | | |
| | | | HOT WATER | HEATING | COOLING | NSF | PON:CYCLE | HOT WATER | FEDERAL WATER | HUD | FEDERAL | TEST SITES | OPERATIONAL | AGRICULTURAL | PROCESS | INDUSTRY | TEST SITES | INDUSTRIAL | HEAT | INDUSTRIAL |
| | <u>OHIO</u> | | | | | | | | | | | | | | | | | | | |
| | •MOUNT STERLING | HOTEL/MOTEL(R) | X | X | | | | | | X | | | | | | | | | | |
| | •PIQUA | HOUSE(N) | X | X | | | | | | | | X | | | | | | | | |
| | •POLAND TOWNSHIP | HOUSE(N) | X | X | | | | | | | | X | | | | | | | | |
| | •SPRINGFIELD | GREENHOUSES | | | | | | | | | | | | | | | | X | | |
| | •STRONGVILLE | HOUSES(2/N) | X | X | | | | | | | | | | | | | | | | |
| | •TOLEDO | CLINIC(N) | | | | | | | | | | | | | | | | | | |
| | •TROY | LIBRARY(R) | | X | X | | | | | | | | | | | | | | | |
| | •WOOSTER | HOUSE(N) | X | X | X | | | | | | | | | | | | | X | | |
| | | GREENHOUSES | | | | | | | | | | | | | | | | | | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM TYPE | | PROGRAMS | | | | | | | | | | |
|-----------------|--------------|-----------------|-------------------|---------|------------|-----------|----------------------|---------------|------------|--------------------|-----------------------|------|--------------------|-----------------|-----------|
| | | | HOT WATER HEATING | Cooling | COMMERCIAL | | | RESIDENT | | OTHER | | | | | |
| | | | | | NSF | PON:CYCLE | HOT WATER INITIATIVE | FEDERAL BLDG. | HUD RFGA | FEDERAL TEST BLDG. | DEVSITES-AGRICULTURAL | NASA | INSTRUMENTED SITES | INDUSTRIAL HEAT | SITES DAS |
| OKLAHOMA | | | | | | | | | | | | | | | |
| •ADA | | HOUSE(N) | X | X | | | | | | X | X | | | | |
| •ANTLERS | | HOUSE(N) | X | X | | | | | | X | X | | | | |
| •BARTLESVILLE | | LABORATORY(R) | X | X | | | | | | | | | | | |
| •CLAYTON | | HOUSE(N) | X | X | | | | | | | X | X | | | |
| •EL RENO | | HOUSE | | X | | | | | | | | | | | |
| •HUGIO | | HOUSE(N) | X | X | | | | | | | X | | | | |
| •KINGSTON | | HOTEL/MOTEL(R) | X | X | | | | | | | | | | | |
| •MOYERS | | HOUSE(N) | X | X | | | | | | | X | | | | |
| •NORMAN | | HOUSE(N) | X | X | | | | | | | X | | | | |
| •NOWATA | | HOUSE(N) | X | X | | | | | | | X | | | | |
| •OKLAHOMA CITY | | HOUSE(N) | X | X | | | | | | | X | | | | |
| •OKMULGEE | | OFFICE(N) | X | X | X | | | | | | | | | | |
| •POTEAU | | HOUSE(R) | X | X | | | | | | | X | | | | |
| •SOBOL | | HOUSE(N) | X | X | | | | | | | X | | | | |
| •STILLWATER | | PEANUT DRYING | | | | | | | | | | | X | | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | | | | |
|------|--------------|-----------------|--------|---|------------|-----------|-------|--|--|-------------------|--------------|---------|--|--|--|
| | | | TYPE | | COMMERCIAL | RESIDENT. | OTHER | | INSTRUMENTED INDUSTRIAL SITES - HEAT | TEST SITES - NASA | AGRICULTURAL | PROCESS | INSTRUMENTED INDUSTRIAL SITES - HEAT | | |
| | | | | | | | | | | | | | | | |
| | OKLAHOMA | | | | | | | | | | | | | | |
| | •TAMAHKA | HOUSE(N) | X | X | | | | | | | | | | | |
| | •TULSA | HOUSES(4N) | X | X | | | | | | | | | | | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | | | | | | |
|------|--------------|------------------|-----------|---------|------------|----------|-----------|----------------------|---------------|---------------|---------------|------------|-------|---------|--------------|-------------|------|
| | | | TYPE | | COMMERCIAL | RESIDENT | FEDERAL | TEST SITES | OTHER | INDUSTRIAL | INSTRUMENTED | SITES | HEAT | PROCESS | AGRICULTURAL | OPERATIONAL | NASA |
| | OREGON | | HOT WATER | HEATING | Cooling | NSF | PON:CYCLE | HOT WATER INITIATIVE | FEDERAL BLDG. | HUD R F G A | FEDERAL BLDG. | TEST SITES | BLDG. | | | | |
| | •ASHLAND | HOUSE(2N) | X | X | | | | | | | | X | | | | | |
| | | APARTMENTS(N) | X | | | | | | | | | X | X | | | | |
| | •COOS BAY | APARTMENTS(N) | | X | X | X | | | | | | X | | | | | X |
| | •PORTLAND | SUPERMARKET(R) | | X | | | | | | X-3 | | | | | | | |
| | •REDMOND | HOUSE(N) | X | X | | | | | | | | | | | | | |
| | | MULTI-FAMILY (N) | X | | | | | | | | | X | | | | | |
| | •STAYTON | OFFICE(N) | X | X | X | X | | | | X-3 | | | | | | | |
| | •SWEET HOME | HOUSE(N) | X | X | | | | | | | | X | | | | | X |
| | | OFFICE(N) | X | X | X | X | | | | X-3 | | | | | | | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | | | | |
|---------------------------|---------------------|-----------------|--------------|--------------|---------------------------------|-------------|--------------------------------------|----------------------------|------------------|--------------------------------------|-------------------------------------|---------------------|--------------------------|----------------------------|---|
| | | | TYPE | | COMMERCIAL | | | RESIDENT. | | OTHER | | | | | |
| | | | HOT WATER | HEAT- ING | C O O L I N G | N S F | P O N C Y C L E | HOT WATER INITIATIVE | FEDERAL BLDG. | H U D I R F G A | FEDERAL TEST SITES - BLDG. | OPERA TIO NAL | AGRI CULT UR AL | IN DU ST RI AL | INST RU MEN TED S ITE S HEAT |
| | PENNSYLVANIA | | | | | | | | | | | | | | |
| •BETHEL PARK | HOUSE(2N) | X | X | | | | | | | | X | | | | |
| •BRYN MAWR | HOUSE(N) | X | X | | | | | | | | X | | | | |
| •HARRISBURG | MULTI-FAMILY (R) | X | | | | | | | | | X | | | | |
| | CURING | | | | | | | | | | | | | | |
| •HAVERTOWN | APARTMENT(R) | X | | | | | | | | | X | | | | X |
| •HOMESTEAD | HOUSE(N) | X | X | | | | | | | | X | | | | |
| •MECHANICS- BURG | MULTI-FAMILY (N) | X | | | | | | | | | X | | | | |
| •MILFORD TOWNSHIP | HOUSE(N) | X | X | | | | | | | | X | | | | |
| •NEW CASTLE | HOUSE | X | X | | | | | | | | | | X | | |
| •NORTHHAMPTON TOWNSHIP | HOUSE(N) | X | X | | | | | | | | X | | | | |
| •N. FRANKLIN TOWNSHIP | HOUSE(N) | X | X | | | | | | | | X | | | | |
| •PENN VALLEY | HOUSE(N) | X | X | | | | | | | | X | | | | |
| •PHILADEL- PHIA | APARTMENTS(R) | X | | | | | | | | | X | | | | X |

N : New R : Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM TYPE | | | PROGRAMS | | | | | | OTHER | | | | | | |
|------|----------------------|-----------------|-------------|---------|---------|------------|-----------|---------|-----|---------|------------|--------------|--------------|------------|-------|------|--------------|------------|
| | | | HOT WATER | HEATING | COOLING | COMMERCIAL | RESIDENT. | FEDERAL | HUD | FEDERAL | TEST SITES | AGRICULTURAL | INSTRUMENTED | INDUSTRIAL | SITES | HEAT | INSTRUMENTED | INDUSTRIAL |
| | PENNSYLVANIA | | | | | | | | | | | | | | | | | |
| | •PHILADELPHIA | | | | | | | | | | | | | | | | | |
| | •PITTSBURGH | | | | | | | | | | | | | | | | | |
| | •PORT VUE | | | | | | | | | | | | | | | | | |
| | •RANKIN | | | | | | | | | | | | | | | | | |
| | •READING | | | | | | | | | | | | | | | | | |
| | •TOWAMENCIN TOWNSHIP | | | | | | | | | | | | | | | | | |
| | •TUNKHANNOCK | | | | | | | | | | | | | | | | | |
| | •UNIVERSITY PARK | | | | | | | | | | | | | | | | | |
| | •WEST CHESTER | | | | | | | | | | | | | | | | | |
| 61 | | | | | | | | | | | | | | | | | | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | S Y S T E M | P R O G R A M S | | | | | | | | | |
|------|--------------|---|-----------------------|---------------------|-----------------|-----------|-------------------------|---------------------|-------------------------|---------------|---------------------|---------|-----------|
| | | | T Y P E | C O M M E R C I A L | R E S I D E N T | O T H E R | I N S T R U M E N T E D | I N D U S T R I A L | A G R I C U L T U R A L | P R O C E S S | I N D U S T R I A L | H E A T | S I T E S |
| | PENNSYLVANIA | <ul style="list-style-type: none"> •WEST GOSHEN •WEST GROVE | OFFICE(R) HOUSE(N) | X X | X | X | | | | | | | X |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | | | | | |
|-----------|--------------|------------------|--------|----------|------------|----------|-------|---------|--------------------|---------------|--------------------|--------------|--------------------|-------|-----------------|------------|
| | | | TYPE | | COMMERCIAL | RESIDENT | OTHER | | INSTRUMENTED SITES | | INDUSTRIAL PROCESS | | AGRICULTURAL | | INDUSTRIAL HEAT | |
| HOT WATER | HEATING | Cooling | NSF | ON CYCLE | HOT TUBE | FEDERAL | HUD | FEDERAL | TEST SITES | DEVSITES-NASA | OPERATIONAL | AGRICULTURAL | INSTRUMENTED SITES | SITES | INDUSTRIAL | INDUSTRIAL |
| | PUERTO RICO | | | | | | | | | | | | | | | |
| | •CANOVANAS | INDUSTRIAL(N) | | | X | X | | | | | | | | | | |
| | •RIO PEDRAS | MULTI-FAMILY (N) | X | | | | | | | | X | | | | | |
| | •SAN JUAN | INDUSTRIAL | X | X | | | | | | | | | | | | X |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | | | | | |
|--------------|--------------|---------------------|--------|------------|-------------------------|------------------|--------------|--------------------|----------------------|--------------|----------------------|-------------|----------------------|----------------------|----------------------|----------------------|
| | | | TYPE | COMMERCIAL | RESIDENT | OTHER | INSTRUMENTED | SITES | INDUSTRIAL | AGRICULTURAL | PROCESS | INDUSTRY | HEAT | TEST SITES - NASA | TEST SITES - NASA | TEST SITES - NASA |
| HOT WATER | HEATING | COOLING | NSF | PONCYCLE | HOT WATER INITIATIVE | FEDERAL BLDG. | HUD BLDG. | FEDERAL FEDERAL | TEST SITES - NASA | OPERATIONAL | TEST SITES - NASA | OPERATIONAL | TEST SITES - NASA | TEST SITES - NASA | TEST SITES - NASA | TEST SITES - NASA |
| | RHODE ISLAND | | | | | | | | | | | | | | | |
| | •JAMESTOWN | HOUSE(N) | X | X | | | | | X | X | | | | | | X |
| | •NEWPORT | HOUSE(N) | X | X | | | | | | | | | | | | |
| | •PEACE DALE | APARTMENTS(N) | X | X | | | | | | | | | | | | X |
| | •PROVIDENCE | MULTI-FAMILY (N) | X | | | | | | | | | | | | | |
| | | UNIVERSITY(R) | X | X | | | | X-3 | | | | | | | | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM TYPE | | PROGRAMS | | | | | | | | | | | |
|------|---------------------|------------------|-------------|---------|------------|-----------|-------|--------------|------------|-------|----------|--------------|---------|-------------------|-------------|------|
| | | | HOT WATER | HEATING | COMMERCIAL | RESIDENT. | OTHER | INSTRUMENTED | INDUSTRIAL | SITES | INDUSTRY | AGRICULTURAL | PROCESS | TEST SITES - NASA | OPERATIONAL | HEAT |
| | SOUTH CAROLINA | | | | | | | | | | | | | | | |
| | •ABBEVILLE | OFFICE(N) | X | X | | X-3 | | | | | | | | | | |
| | •ANDERSON | HOTEL/MOTEL(R) | X | X | | | X | | | | | | | | X | |
| | •CLEMSON | GREENHOUSE | | | | | | | | | | | | | | |
| | •COLUMBIA | HOUSE(N) | X | X | | | | | | | | | | | | X |
| | | MULTI-FAMILY (R) | X | X | | | | | | | | | | | | |
| | •GREENVILLE | MULTI-FAMILY | X | X | | | | | | | | | | | X | |
| | | HOUSE(N) | X | X | X | | | | | | | | | | X | |
| | | HOUSE(N) | X | X | | | | | | | | | | | X | |
| | •GREENWOOD | OFFICE(N) | X | X | | X-1 | | | | | | | | | | |
| | •GIREER | HOUSES(3N) | X | X | | | | | | | | | | | X | |
| | •HILTON HEAD ISLAND | HOUSE(N) | X | X | | | | | | | | | | | X | |
| | •INMAN | HOUSE(N) | X | X | | | | | | | | | | | X | |
| | •LA FRANCE | TEXTILE DRYING | | | | | | | | | | | | | | |
| | •N. CHARLESTON | SCHOOL(R) | | | X | X | X-3 | | | | | | | | | X |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | | | | INSTRUMENTED INDUSTRIAL SITES - NASA |
|--------------|----------------|---------------------------------|--------|--------------------------------------|--------------|-----------------------|--------------|-----------|---------|------------------|---------|--------------------|-------------|--------------|--|
| | | | TYPE | | COMMERCIAL | RESIDENT. | OTHER | FEDERAL | FEDERAL | FEDERAL | FEDERAL | TEST SITES - NASA | OPERATIONAL | AGRICULTURAL | |
| HOT WATER | HEATING | C O O L I N G | NSF | P O N C Y C L E | HOT WATER | FEDERAL INITIATIVE | HUD BLDG. | IR FGA | BLDG. | DE V SITES | BLDG. | INDUSTRIAL HEAT | | | |
| | SOUTH CAROLINA | | | | | | | | | | | | | | X |
| | •ST. MATTHEWS | HOUSES(4N) | X | X | | | | | | | X | | | | |
| | •SUMMERTVILLE | HOUSE(N) | X | X | | | | | | | X | | | | |
| | | HOUSE(N) | X | | | | | | | | X | | | | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM TYPE | | PROGRAMS | | | | | | | | | | |
|------|---------------------|-----------------|-------------|---------|----------|-----|------------|----------|---------|-----|------------|------------|------------------------|--------------|------------|
| | | | HOT WATER | HEATING | Cooling | NSF | Commercial | Resident | Federal | HUD | IRRIGATION | Test Sites | Dev. Operations - NASA | Agricultural | Industrial |
| | <u>SOUTH DAKOTA</u> | | | | | | | | | | | | | | |
| | • ABERDEEN | | X | X | | | | X-2 | | | | | | | X |
| | • AVON | APARTMENTS(R) | X | X | | | | | | | X | | | | |
| | • BROOKINGS | SWINE BLDG. | X | X | | | | | | | X | | | X | |
| | • ELK POINT | APARTMENTS(R) | X | X | | X | | X-1 | | | X | | | | X |
| | • KEYSTONE | AUDITORIUM(R) | X | X | | | | | | | X | | | | X |
| | • RAPID CITY | HOUSES(2N) | X | X | | | | X-2 | | | X | | | | X |
| | • SCOTLAND | APARTMENT(R) | X | X | | | | | | | X | | | | |
| | • SPEARFISH | SCHOOL(N) | X | X | | | | | | | | | | | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | | | |
|------|--------------------|-----------------|--------|------------|----------|-------|--|----------------------|-----------------------------|---------------|--------------------------|-----------------|-----------------------------|---------------|
| | | | TYPE | COMMERCIAL | RESIDENT | OTHER | INSTRUMENTED INDUSTRIAL TEST SITES | SITE HEAT PROCESS | AGRICULTURAL OPERATIONAL | DATA SITES | INDUSTRIAL TEST SITES | HEAT PROCESS | AGRICULTURAL OPERATIONAL | DATA SITES |
| | TENNESSEE | | | | | | | | | | | | | |
| | • CLEVELAND | COMMERCIAL | X | X | X | | | | | X | | | | |
| | • DIXON SPRINGS | HOUSE(N) | X | X | | | | | | X | | | | |
| | • JACKSON | INDUSTRIAL(R) | X | X | | | | | | | | | | |
| | • KNOXVILLE | HAY DRYING | | | | | X-2 | | | | | | | |
| | • LAWRENCE BURG | SCHOOL | X | X | X | | | | | | | | | |
| | • MEMPHIS | OFFICE | X | X | | | | X-3 | | | X | | | |
| | • MURFREES- | HOUSES(2N) | X | X | | | | | | | X | | | |
| | BORO | HOUSE(N) | X | X | | | | | | | | | | |
| | • NASHVILLE | OFFICE(N) | X | X | | | X-2 | | | | | | | |
| | | HOTEL/MOTEL(N) | X | | | | | | | | | | | |
| | • STRAWBERRY PLAIN | HOUSE(N) | | X | | | | | | | | | | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | | | | | |
|-------------------|--------------|---------------------------------|--------|-----|--------------------------------------|------------|--------------|------------------|--------------|-----------------|---------------|-------------|--------------|----------|-------|--------------|
| | | | Type | | COMMERCIAL | RESIDENT | OTHER | | | | | | | | | |
| HOT WATER | HEAT- ING | C O O L I N G | | NSF | P O N C Y C L E | INITIATIVE | HOT WATER | FEDERAL BLDG. | HUD BLDG. | FEDERAL RFGA | TEST SITES | OPERATIONAL | AGRICULTURAL | INDUSTRY | SITES | INSTRUMENTED |
| | <u>TEXAS</u> | | | | | | | | | | | | | | | |
| ● AUSTIN | | APARTMENTS(R) | X | X | X | | | | | | X | | | | | X |
| | | APARTMENTS(R) | X | X | X | | | | | | X | | | | | X |
| | | HOUSE(N) | X | X | | | | | | | | | | | | X |
| | | OFFICE(N) | | X | X | X | | | | | | | | | | X |
| | | INDUSTRIAL(N) | | X | X | X | | | | | | | | | | X |
| ● BASTROP | | DORMITORY(N) | X | X | X | | | | | | X | | | | | X |
| ● BEAUMONT | | HOTEL/MOTEL(N) | X | | | | | | | | | | | | | X |
| | | RICEDRYING | | | | | | | | | | | | | | |
| ● CARROLLTON | | COMMERCIAL | X | X | | | | | | | | | | | | X |
| | | HOUSE(R) | X | X | | | | | | | | | | | | X |
| ● COLLEGE STATION | | GREENHOUSES | | C | | | | | | | | | | | | X |
| ● CORSICANA | | MULTI-FAMILY (R) | X | | | | | | | | | | | | | X |
| ● DALLAS | | HOUSE | X | X | | | | | | | | | | | | X |
| | | HOUSES(2N) | X | X | | | | | | | | | | | | |
| | | SCHOOL(R) | X | X | | | | | | | | | | | | |
| | | | | | | | X-3 | | | | | | | | | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | | | | | | | | | |
|------|-----------------------|---------------------|--------------|---------|---------------------------------|-----------|---|----------------------------|---------------------------|---------------|------------------|------------------|-------------------|---------------|---------------|-------------|-------|-------|-------|-------|
| | | | TYPE | | COMMERCIAL | RESIDENT. | OTHER | INSTRUMENTED | INDUSTRIAL | SITES - SDA'S | INDUSTRIAL | HEAT | TEST SITES - NASA | AGRICULTURAL | PROCESS | OPERATIONAL | BLDG. | | | |
| | | | HOT WATER | HEATING | C O O L I N G | NSF | P O N Y C Y C L E | HOT WATER INITIATIVE | FEDERAL WATER CYCLE | HUD BLDG. | FEDERAL BLDG. | FEDERAL BLDG. | IRFGA | DEV. BLDG. | TEST BLDG. | BLDG. | BLDG. | BLDG. | BLDG. | BLDG. |
| | <u>TEXAS</u> | | | | | | | | | | | | | | | | | | | |
| | • EL PASO | OFFICE(N) | X | X | | | | X-2 | | | | | | | | | X | | | |
| | • FORTHOOD | GYMNASIUM(R) | X | X | X | X | X | | | | | | | | | | X | | | |
| | • HELOTES | OFFICE(R) | | X | X | X | | | | | X | X | | | | | | | | |
| | • HOUSTON | HOUSE(N) | X | X | X | | | | | | | | | | | | X | | | |
| | • COMMERCIAL | COMMERCIAL | X | X | X | | | | | | | | | | | | | | | |
| | • LOGIO VISTA | OFFICE(R) | X | | | | | | | | X | | | | | | | | | |
| | • LUBBOCK | HOUSE(R) | X | | | | | | | | | X | X | | | | | | | |
| | • HOUSE(S) | HOUSES(5N) | X | X | | | X | | | | | | X | | | | | | | |
| | • RANDOLPH AFB | HOUSE(N) | X | X | | | | | | | | | | | | | X | | | |
| | • SAN ANGELO | STORE(R) | X | X | | | X | | | | | | | | | | | | | |
| | • SAN ANTONIO | HOUSE(N) | X | X | | | | | | | | | X | | | | | | | |
| | • MULTI-FAMILY (R) | MULTI-FAMILY (R) | X | | | | | | | | | | | | | | | | | |
| | • OFFICE(R) | OFFICE(R) | X | X | | X | | X-1 | | | | | | | | | | | | |
| | • SCHOOL | SCHOOL | X | X | | X | | X-3 | | | | | | | | | | | | |
| | • HOTEL/MOTEL(R) | HOTEL/MOTEL(R) | X | | | | | | | X | | | | | | | | | | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | | | |
|------|-----------------|--------------------|-------------------------|---------------------------------|------------|---------------------------------|----------------------------|---------------------------|------------------|------------------|-------------------------|--------------------------------------|-----------------------------------|--------------------|
| | | | TYPE | | COMMERCIAL | RESIDENT | | | | | | | | |
| | | | HOT WATER HEATING | C O O L I N G | NSF | P O N Y C L E | HOT WATER INITIATIVE | FEDERAL WATER BLDG. | HUD IR FGA | FEDERAL BLDG. | TEST SITES - NASA | AGRICULTURAL OPERATIONAL BLDG. | INSTRUMENTED INDUSTRY SITES | INDUSTRIAL HEAT |
| | <u>TEXAS</u> | | | | | | | | | | | | | |
| | • SHEPPARD AFB. | (4N) | X | X | | | | | | | | X | | |
| | • SHERMAN | GAUZE BLEACHING | | | | | | | | | | | X | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | | | |
|------|-----------------|-----------------|-------------------|---------------|------------|-----------------|-----------------|---------------|-----------------|----------|-----------------------------|-------------------------------|-------------------------|---------------------------------|
| | | | TYPE | | COMMERCIAL | RESIDENT | | | | | | | OTHER | |
| | UTAH | | HOT WATER HEATING | C O O L I N G | N S F | P O N C Y C L E | H O T W A T E R | F E D E R A L | H U D R F G A | B L D G. | T E S T S I T E S - N A S A | D E V - O P E R A T I O N A L | I N S T R U M E N T E D | S I T E S - I N D U S T R I A L |
| | •GRANGER | HOUSE(N) | | | X | | | | | | X X | | | S D A S |
| | •LOGAN | HOUSE(N) | X | X | | | | | | | | | | S I T E S - I N D U S T R I A L |
| | •MIDVALE | HOTEL/MOTEL(N) | X | X | | | | | | | | | | H E A T |
| | •LOGAN | INDUSTRIAL(R) | | | | | X-2 | | | | | | | I N D U S T R I A L |
| | •SALT LAKE CITY | HOUSE(N) | X | X | | | X-2 | | | | | | | P R O C E S S |
| | •STANSBURY PARK | HOUSE(N) | | X | | | | | | | X X | | | A G R I C U L T U R A L |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | PROGRAMS | | | | | | | | | | | | |
|------|--------------------------|-----------------|-------------------------|---------------------------------|-------------|--------------------------------------|---|---|--------------------------------------|---|---|--|--|--|---|
| | | | SYSTEM TYPE | | COMMERCIAL | | | RESIDENT. | | OTHER | | | | | |
| | | | HOT WATER HEATING | C O O L I N G | N S F | P O N C Y C L E | H O T W A T E R I N I T I V E | F E D E R A L B L D G | H U D R F G A | F E D E R A L B L D G | D E V - O P E R A T I O N A G R I C U L T U R A L | I N S T R U M E N T E D S I T E S A D A I N D U S T R I A L H E A T | | | |
| | VIRGIN ISLANDS | | | | | | | | | | | | | | X |
| | •ST. JOHN •ST. THOMAS | HOTEL/MOTEL(R) | | X | X | X | | | | X | | | | | X |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM TYPE | | PROGRAMS | | | | | | OTHER | | | | | | |
|------|------------------|------------------|-------------|---------|------------|-----------|---------|-----|---------|------------|------------|--------------|--------------------|--------------|-------------|-----------------|-----------------|
| | | | HOT WATER | HEATING | COMMERCIAL | RESIDENT. | FEDERAL | HUD | FEDERAL | TEST SITES | INDUSTRIAL | INSTRUMENTED | SITES - INDUSTRIAL | AGRICULTURAL | OPERATIONAL | DEVSITES - NASA | INDUSTRIAL HEAT |
| | VIRGINIA | | | | NSF | | | | | | | | | | | | |
| | •ARLINGTON | AUDITORIUM(R) | X | X | | | | | | X-3 | | | | | | | |
| | •BERRYVILLE | HOUSE(N) | X | X | X | | | | | | X | | | | | | |
| | •BLACKSBURG | SWINE HOUSES | | X | X | | | | | | | | | | | X | |
| | •CHARLOTTESVILLE | HOSPITAL(R) | X | X | | | | | | X-2 | | | | | | | |
| | •DUFFIELD | HOUSE(N) | X | X | | | | | | | | X | | | | | |
| | •DUMFRIES | HOUSES(2) | X | X | X | | | | | | | X | | | X | | |
| | •FALLS CHURCH | HOUSE(N) | | X | | | | | | | | | X | | | | |
| | •FERRUM | MULTI-FAMILY (R) | X | X | | | | | | | | X | | | | | |
| | •FOREST | APARTMENTS(R) | X | X | | | | | | | | X | | | | | |
| | •FREDERICKSBURG | HOUSE(N) | X | X | | | | | | | | X | | | | | |
| | •HAMPTON | LABORATORY | X | | | | | | | | X | | | | | | |
| | •HARRISONBURG | HOTEL/MOTEL(R) | X | | | | | | | | | | | X | | | |
| | •IVY | HOUSE | X | X | X | | | | | | | | | | | | |
| | | HOUSES(2N) | X | X | | | | | | | | | | | | | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | PROGRAMS | | | | | | | | | | | | | | | | | | | |
|------|-----------------|-----------------|-------------|---------|---------|------------|-----|-------|-----------|---------|-------|-------|---------|-------------------|-------|---------|--------------|-------------|--------------|-------|------------|------|
| | | | SYSTEM TYPE | | | COMMERCIAL | | | RESIDENT. | | | OTHER | | | | | | | | | | |
| | | | HOT WATER | HEATING | COOLING | NSF | PON | CYCLE | HOT WATER | FEDERAL | BLDG. | HUD | FEDERAL | TEST SITES - NASA | INDUS | PROCESS | AGRICULTURAL | OPERATIONAL | INSTRUMENTED | SITES | INDUSTRIAL | HEAT |
| | VIRGINIA | | | | | | | | | | | | | | | | | | | | | |
| | •LEESBURG | SCHOOL(N) | X | | | | | | | | | | | | | | | | | | | |
| | •LOUISA | HOUSES(2N) | X | X | | | | | | | | | | | | | | | | | | |
| | •LYNCHBURG | OFFICE(R) | | X | X | | | | | | | | | | | | | | | | | |
| | •PORTSMOUTH | SCHOOL(N) | X | X | | | | | | | | | | | | | | | | | | |
| | •RICHMOND | HOTEL/MOTEL(R) | X | | | | | | | | | | | | | | | | | | | |
| | •SANDSTON | LIBRARY(N) | X | X | | X | | | | | | | | | | | | | | | | |
| | •VIENNA | HOUSE(N) | X | X | | | | | | | | | | | | | | | | | | |
| | •VIRGINIA BEACH | HOTEL/MOTEL(R) | X | | | | | | | | | | | | | | | | | | | |
| | •WARRENTON | HOUSE(N) | X | | | | | | | | | | | | | | | | | | | |
| | •WICOMICO | HOUSE(N) | X | X | | | | | | | | | | | | | | | | | | |
| | •WILLIAMSBURG | HOTEL/MOTEL(R) | X | | | | | | | | | | | | | | | | | | | |
| | •WOODBRIDGE | | | | | | | | | | | | | | | | | | | | | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | | | | |
|------|--------------|------------------|---------|-----|------------|-----------|---------|-----|--------------|-------------------|-------------|--------------------|--------------|---------|--------------|
| | | | TYPE | | COMMERCIAL | RESIDENT. | OTHER | | INSTRUMENTED | | INDUSTRIAL | | AGRICULTURAL | | |
| HOT | WATER | HEATING | COOLING | NSF | PON:CYCLE | HOT WATER | FEDERAL | HUD | IR F G A | TEST SITES - NASA | OPERATIONAL | SITES - INDUSTRIAL | HEAT | PROCESS | AGRICULTURAL |
| | VERMONT | | | | | | | | | | | | | | |
| | •BROOKLINE | APARTMENTS(N) | X | X | | | | | | X | | | | | |
| | •BURLINGTON | MULTI-FAMILY (N) | X | X | | | | | | X | | | | | X |
| | •MENDON | OFFICE(N) | X | X | | | | | | X | | | | | X |
| | •WAITSFIELD | HOUSE(N) | X | X | | | | | | | | | | | |
| | •WOODSTOCK | HOTEL/MOTEL(R) | X | | | | | | | | | | | | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM TYPE | | PROGRAMS | | | | | | | | | |
|------|--------------|--|---|------------------|------------------|---------------------|---------------------------------------|------------------------------------|-------------------------|---------------------|-------------------------|-----------|---------------------|---|
| | | | HOT WATER | HEATING | C O O L I N G | C O M M E R C I A L | R E S I D E N T. | O T H E R | A G R I C U L T U R A L | I N D U S T R I A L | I N S T R U M E N T E D | S I T E S | I N D U S T R I A L | |
| | WASHINGTON | <ul style="list-style-type: none"> •KIRKLAND •PULLMAN •RICHLAND •SEATTLE •SPOKANE | HOUSE(N) DRYING FOOD PROCESSING OFFICE(N) CAFETERIA(R) GREENHOUSES YWCA | X X X X | X X X X | NSF PON CYCLE | HOT WATER INITIATIVE FEDERAL CYCLE | FEDERAL BLDG. HUD BLDG. RFGA | X X | | | X | X | X |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | | | | INSTRUMENTED INDUSTRY SITES PROCESS SITES |
|------|---------------|-----------------|-----------------------------|---------------------------------|------------------|---|--------------------------------|------------------|-------------------|-------------|-------------------|--------------|-------------|------------|---|
| | | | TYPE | | COMMERCIAL | RESIDENT. | FEDERAL | HUD | FEDERAL | FEDERAL | TEST SITES | AGRICULTURAL | OPERATIONAL | NASA BLDG. | |
| | | | HOT WATER HEATI NG | C O O L I N G | NSF | P O N Y C Y C L E | HOT WATER INITIA TIVE | FEDERAL BLDG. | IR F G A | FED ERAL | IR F G A | BLDG. | | | |
| | WEST VIRGINIA | | | | | | | | | | | | | | X |
| | | •BETHANY | | | CAFETERIA(R) | X | X | | | x-2 | | | | | |
| | | •BLUEFIELD | | | HOTEL/MOTEL(R) | X | X | X | | | X | | | | |
| | | •CHARLESTOWN | | | SCHOOL(N) | | | X | | | | | | | |
| | | •CLARKSBURG | | | MULTI-FAMILY (R) | X | | | | | | X | | | |
| | | •INWOOD | | | HOUSE(N) | X | X | | | | | X | | | |
| | | •PHILIPPI | | | OFFICE(N) | X | X | | | x-3 | | | | | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM TYPE | | PROGRAMS | | | | | | | | | | | |
|------|----------------|------------------|-------------|---------|----------|-----|-----------|----------------------|---------------|-----------|--------------|------------|------------------|-------------|--------------|------------------|
| | | | HOT WATER | HEATING | Cooling | NSF | PON:CYCLE | HOT WATER INITIATIVE | FEDERAL WATER | HUD BLDG. | FEDERAL RFGA | TEST BLDG. | DEV-SITES - NASA | OPERATIONAL | AGRICULTURAL | INDUSTRY PROCESS |
| | WISCONSIN | | | | | | | | | | | | | | | |
| | •BARABOO | HOUSE(N) | X | X | | | | | | | | X | | | | |
| | •CLEVELAND | SCHOOL(N) | X | X | | | | | | | | X | | | | |
| | •ELDORADO | HOUSE(N) | X | X | | | | | | | | X | | | | |
| | •FALL CREEK | APARTMENTS(R) | X | | X | | | | X-3 | | | | | | | |
| | •GAY MILLS | INDUSTRIAL(R) | | | X | | | | X-3 | | | | | | | |
| | •HOWARDS GROVE | SCHOOL(N) | | | X | | | | X-2 | | | | | | | X |
| | •MADISON | FOOD PROCESS-ING | | | | | | | | | | X | | | X | |
| | •MANITOWOC | HOUSE(N) | | | X | | | | | | | X | | | | |
| | •MILWAUKEE | HOUSE(N) | X | X | | | | | | | | X | | | | X |
| | | HOUSE(R) | X | X | | | | | | | | X | | | | |
| | | COMMERCIAL | X | X | | | | | | | | | | | X | |
| | •OSCEOLA | HOUSE(N) | X | X | | | | | | | | X | | | | |
| | •RACINE | APARTMENTS(R) | X | | | | | | | | | X | | | | |
| | •RICE LAKE | HOUSE(N) | X | X | | | | | | | | X | | | | X |
| | •SHEBOYGAN | HOUSE(N) | X | X | | | | | | | | X | | | | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM | | PROGRAMS | | | | | | | | | |
|--------------|--------------|-----------------|--------|------------|------------|---------------|---------------|---------|--------------------|-------------------|--------------------|---------|--------------|--------------|
| | | | TYPE | | COMMERCIAL | RESIDENT. | OTHER | | INSTRUMENTED SITES | | INDUSTRIAL PROCESS | | AGRICULTURAL | |
| HOT WATER | HEATING | COOLING | NSF | PON. CYCLE | HOT WATER | FEDERAL BLDG. | HUD / R F G A | FEDERAL | TEST SITES - NASA | OPERATIONAL BLDG. | INDUSTRIAL HEAT | PROCESS | AGRICULTURAL | AGRICULTURAL |
| | WISCONSIN | | | | | | | | | | | | | |
| | •SUMMITT | HOUSE(N) | X | X | | | | | | X | | | | |
| | •WESTBEND | OFFICE(N) | X | X | | | | | | X | | | | |
| | •WINNE CONNE | HOUSES(2N) | X | X | | X-2 | | | | | | | | |

N: New R: Retrofit

NATIONAL SOLAR ENERGY DEMONSTRATION PROGRAM

| CODE | STATE - CITY | APPLICATION-N/R | SYSTEM TYPE | | PROGRAMS | | | | OTHER | | | | | |
|------|--------------|-----------------|-------------|-----------|----------|-----|------|-------------------|----------------|--------------|--------------------|-----------------|-----------------|-----------------|
| | | | COMMERCIAL | RESIDENT. | FEDERAL | HUD | RFGA | TEST SITES - NASA | INDUS. PROCESS | AGRICULTURAL | INSTRUMENTED SITES | INDUSTRIAL HEAT | INDUSTRIAL HEAT | INDUSTRIAL HEAT |
| | WYOMING | | | | | | | | | | | | | X |
| | •CASPER | OFFICE(N) | | X | | | | | | | | | | |
| | •GLENDO | PARK | X | X | | | | | | | | | | |
| | •LARAMITE | HOUSE(N) | X | X | | | | | | | | | | X |
| | | INDUSTRIAL(N) | X | X | | | | | | | | | | |

N: New R: Retrofit