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**Pacific Gas and Electric Company**

***Cogeneration and  
Small Power Production  
Annual Report***

**July 1997**

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**Pacific Gas and Electric Company**

***Cogeneration and  
Small Power Production  
Annual Report***

**to the  
California Public Utilities Commission**

**July 1997**

# Pacific Gas and Electric Company

## Summary of Projects

July 1997

### Signed Contracts Actively Delivering

| Project Type         | Number of Projects | Operating Size (kW) |
|----------------------|--------------------|---------------------|
| COGENERATION         | 114                | 2,950,306           |
| SMALL POWER PRODUCER |                    |                     |
| BIOGAS               | 17                 | 34,696              |
| BIOMASS              | 23                 | 430,300             |
| GEOTHERMAL           | 8                  | 149,900             |
| HYDRO                | 102                | 221,982             |
| SOLAR                | 6                  | 49                  |
| WASTE-TO-ENERGY      | 10                 | 144,250             |
| WIND                 | 45                 | 717,250             |
| <b>Total</b>         | 325                | 4,648,733           |

### Projects Terminated During the Half Year

| All Project Types | Number of Projects | Nameplate (kW) |
|-------------------|--------------------|----------------|
| <b>Total</b>      | 1                  | 3,000          |

## Summary of Signed Contracts

### Cogeneration Projects - Operational and Currently Delivering

July 1997

| No. | Log. No. | Project                           | City / County                     | Contract Type* | Primary Energy Source | Operating Size (kW) | Operating Start Date | Enhanced Oil Recovery |
|-----|----------|-----------------------------------|-----------------------------------|----------------|-----------------------|---------------------|----------------------|-----------------------|
| 1   | 02C048   | 1080 CHESTNUT CORP.               | SAN FRANCISCO / SAN FRANCISCO     | 3              | NATURAL GAS           | 60                  | 3/23/88              |                       |
| 2   | 04C140   | AIRPORT CLUB                      | SANTA ROSA / SANTA ROSA           | 3              | NATURAL GAS           | 60                  | 8/27/92              |                       |
| 3   | 16C047   | ALTAMONT COGENERATION CORP.       | TRACY / SAN JOAQUIN               | 4              | NATURAL GAS           | 6,500               | 4/13/90              |                       |
| 4   | 25C130   | ARCO OIL & GAS (FEE "A")          | OILDALE / KERN                    | 2              | NATURAL GAS EOR       | 7,450               | 6/25/86              | Yes                   |
| 5   | 25C186   | ARCO OIL & GAS (FEE "B")          | OILDALE / KERN                    | 2              | NATURAL GAS EOR       | 3,725               | 4/28/87              | Yes                   |
| 6   | 25C168   | ARCO OIL & GAS (FEE "C")          | OILDALE / KERN                    | 2              | NATURAL GAS EOR       | 7,450               | 2/26/87              | Yes                   |
| 7   | 25C180   | ARCO OIL & GAS (OXFORD)           | FELLOWS / KERN                    | 4              | NATURAL GAS EOR       | 5,200               | 9/19/84              | Yes                   |
| 8   | 02C047   | ARDEN WOOD BENEVOLENT ASSOC.      | SAN FRANCISCO / SAN FRANCISCO     | 3              | NATURAL GAS           | 90                  | 9/9/87               |                       |
| 9   | 06C155   | ATHLETIC CLUB                     | VACAVILLE / SOLANO                | 3              | NATURAL GAS           | 22                  | 7/15/91              |                       |
| 10  | 25C250   | BADGER CREEK LIMITED              | BAKERSFIELD / KERN                | 2              | NATURAL GAS EOR       | 48,094              | 4/1/91               | Yes                   |
| 11  | 25C251   | BEAR MOUNTAIN LIMITED             | BAKERSFIELD / KERN                | 2              | NATURAL GAS EOR       | 48,094              | 4/3/95               | Yes                   |
| 12  | 25C099A  | BERRY PETROLEUM COGEN             | TAFT / KERN                       | 2              | NATURAL GAS EOR       | 38,000              | 12/8/96              | Yes                   |
| 13  | 25C151   | BERRY PETROLEUM COMPANY           | TAFT / KERN                       | 2              | NATURAL GAS EOR       | 17,000              | 12/8/86              | Yes                   |
| 14  | 25C249   | CAL RESOURCES (COALINGA)          | COALINGA / FRESNO                 | 1              | NATURAL GAS EOR       | 8,500               | 6/3/88               | Yes                   |
| 15  | 25C258   | CAL RESOURCES (N. MIDWAY SUNSET)  | BAKERSFIELD / KERN                | 1              | NATURAL GAS EOR       | 3,500               | 6/19/88              | Yes                   |
| 16  | 25C049   | CAL RESOURCES (S. BELRIDGE)       | BELRIDGE / KERN                   | 4              | NATURAL GAS EOR       | 48,000              | 1/10/86              | Yes                   |
| 17  | 25C246   | CAL RESOURCES (SE KERN RIVER)     | BAKERSFIELD / KERN                | 1              | NATURAL GAS EOR       | 34,468              | 1/31/89              | Yes                   |
| 18  | 18C006   | CALPINE AMERICAN I COGEN.         | KING CITY / MONTEREY              | 4              | NATURAL GAS           | 120,000             | 3/14/89              |                       |
| 19  | 08C002   | CALPINE GILROY COGEN, L.P.        | GILROY / SANTA CLARA              | 4              | NATURAL GAS           | 130,000             | 9/18/87              |                       |
| 20  | 08C022   | CALPINE MONTEREY COGEN INC.       | WATSONVILLE / SANTA CRUZ          | 4              | NATURAL GAS           | 28,500              | 4/27/90              |                       |
| 21  | 08C003   | CARDINAL COGEN                    | STANFORD UNIVERSITY / SANTA CLARA | 4              | NATURAL GAS           | 49,900              | 2/20/88              |                       |
| 22  | 25C272   | CHALK CLIFF LIMITED               | BAKERSFIELD / KERN                | 2              | NATURAL GAS EOR       | 48,094              | 3/20/90              | Yes                   |
| 23  | 01C202   | CHEVRON RICHMOND REFINERY         | RICHMOND / CONTRA COSTA           | 1              | NATURAL GAS           | 99,000              | 8/31/92              |                       |
| 24  | 25C055   | CHEVRON USA (COALINGA)            | COALINGA / FRESNO                 | 1              | NATURAL GAS EOR       | 16,500              | 11/7/86              | Yes                   |
| 25  | 01C080   | CHEVRON USA (CONCORD)             | CONCORD / CONTRA COSTA            | 1              | NATURAL GAS           | 3,000               | 3/29/88              |                       |
| 26  | 25C003   | CHEVRON USA (CYMRIC)              | CYMRIC / KERN                     | 1              | NATURAL GAS EOR       | 21,040              | 10/15/82             | Yes                   |
| 27  | 25C248   | CHEVRON USA (EASTRIDGE)           | BAKERSFIELD / KERN                | 1              | NATURAL GAS EOR       | 44,000              | 6/13/88              | Yes                   |
| 28  | 25C002   | CHEVRON USA (TAFT/CADET)          | TAFT / KERN                       | 1              | NATURAL GAS EOR       | 10,000              | 7/26/82              | Yes                   |
| 29  | 01C057   | CITY OF CONCORD                   | CONCORD / CONTRA COSTA            | 1              | NATURAL GAS           | 105                 | 10/1/86              |                       |
| 30  | 06C061   | CITY OF FAIRFIELD                 | FAIRFIELD / SOLANO                | 1              | NATURAL GAS           | 775                 | 8/15/84              |                       |
| 31  | 08C097   | CITY OF MILPITAS                  | MILPITAS / SANTA CLARA            | 3              | NATURAL GAS           | 60                  | 10/6/89              |                       |
| 32  | 06C010   | CITY OF VACAVILLE (COMM. CENTER)  | VACAVILLE / SOLANO                | 4              | NATURAL GAS           | 450                 | 7/9/86               |                       |
| 33  | 04C130   | CITY OF VALLEJO (CUNNINGHAM POOL) | VALLEJO / SOLANO                  | 3              | NATURAL GAS           | 80                  | 8/15/85              |                       |

\* Contract Type: 1/ As-Delivered Capacity & Energy, 2/ Firm Capacity & Energy, 3/ Energy Purchase, 4/Long-term Energy Capacity

## Summary of Signed Contracts

### Cogeneration Projects - Operational and Currently Delivering

July 1997

| No. | Log. No. | Project                                | City / County             | Contract Type* | Primary Energy Source | Operating Size (kW) | Operating Start Date | Enhanced Oil Recovery |
|-----|----------|--|---------------------------|----------------|-----------------------|---------------------|----------------------|-----------------------|
| 34  | 25C124   | COALINGA COGENERATION COMPANY          | COALINGA / FRESNO         | 4              | NATURAL GAS EOR       | 46,000              | 10/17/91             | Yes                   |
| 35  | 08C023   | CONTAINER CORP.OF AMERICA              | SANTA CLARA / SANTA CLARA | 2              | NATURAL GAS           | 30,545              | 12/20/85             |                       |
| 36  | 08C071   | COUNTY OF SANTA CRUZ ( WATER ST. JAIL) | SANTA CRUZ / SANTA CRUZ   | 1              | NATURAL GAS           | 180                 | 9/1/87               |                       |
| 37  | 01C045   | CROCKETT COGEN                         | CROCKETT / CONTRA COSTA   | 4              | BLACK LIQUOR          | 260,000             | 12/20/95             |                       |
| 38  | 25C138   | DEXZEL INC.                            | OILDALE / KERN            | 4              | NATURAL GAS EOR       | 32,000              | 11/30/89             | Yes                   |
| 39  | 25C241   | DOUBLE "C" LIMITED                     | BAKERSFIELD / KERN        | 2              | NATURAL GAS EOR       | 48,094              | 3/14/89              | Yes                   |
| 40  | 01C052   | DOW CHEMICAL CORP.                     | PITTSBURG / CONTRA COSTA  | 1              | NATURAL GAS           | 65,500              | 7/1/77               |                       |
| 41  | 25C016   | DYNAMIS COGEN                          | SANGER / FRESNO           | 2              | NATURAL GAS           | 38,000              | 12/11/90             |                       |
| 42  | 16C157   | FISHER NURSERY                         | RIPON / SAN JOAQUIN       | 1              | NATURAL GAS           | 100                 | 4/4/88               |                       |
| 43  | 25C092   | FRESNO COGENERATION CORPORATION        | FRESNO / FRESNO           | 2              | NATURAL GAS           | 25,000              | 12/27/89             |                       |
| 44  | 25C063   | FRITO LAY COGEN                        | BAKERSFIELD / KERN        | 4              | NATURAL GAS           | 6,000               | 4/2/86               |                       |
| 45  | 08C010   | GATX/CALPINE COGEN-AGNEWS INC.         | SAN JOSE / SANTA CLARA    | 4              | NATURAL GAS           | 36,100              | 10/19/90             |                       |
| 46  | 01C104   | GAYLORD                                | ANTIOCH / CONTRA COSTA    | 2              | NATURAL GAS           | 49,670              | 11/18/82             |                       |
| 47  | 12C020   | GREENLEAF UNIT #1                      | YUBA CITY / SUTTER        | 4              | NATURAL GAS           | 49,500              | 1/11/89              |                       |
| 48  | 12C021   | GREENLEAF UNIT #2                      | YUBA CITY / SUTTER        | 4              | NATURAL GAS           | 49,500              | 10/12/89             |                       |
| 49  | 01C201   | HAYWARD AREA REC & PARK DIST.          | HAYWARD / ALAMEDA         | 3              | NATURAL GAS           | 60                  | 2/2/88               |                       |
| 50  | 16C035   | HERSHEY CHOCOLATE U.S.A.               | OAKDALE / STANISLAUS      | 4              | NATURAL GAS           | 6,000               | 2/5/89               |                       |
| 51  | 25C172   | HEUBLEIN WINES                         | MADERA / MADERA           | 3              | NATURAL GAS           | 325                 | 8/24/84              |                       |
| 52  | 25C242   | HIGH SIERRA LIMITED                    | BAKERSFIELD / KERN        | 2              | NATURAL GAS EOR       | 48,094              | 2/24/89              | Yes                   |
| 53  | 25C188   | KERN FRONT LIMITED                     | BAKERSFIELD / KERN        | 2              | NATURAL GAS EOR       | 48,094              | 1/7/89               | Yes                   |
| 54  | 12C051   | KOPPERS INDUSTRIES                     | OROVILLE / BUTTE          | 2              | WOODWASTE             | 6,000               | 7/1/83               |                       |
| 55  | 25C274   | LIVE OAK LIMITED                       | BAKERSFIELD / KERN        | 2              | NATURAL GAS EOR       | 48,094              | 3/16/91              | Yes                   |
| 56  | 25C166   | M.H. WHITTIER CAL CORP.                | TAFT / KERN               | 1              | NATURAL GAS           | 500                 | 10/6/86              | Yes                   |
| 57  | 01C044   | MARTINEZ COGEN LIMITED PARTNERSHIP     | MARTINEZ / CONTRA COSTA   | 4              | NATURAL GAS           | 99,900              | 2/23/87              |                       |
| 58  | 25C275   | MCKITTRICK LIMITED                     | BAKERSFIELD / KERN        | 2              | NATURAL GAS EOR       | 48,094              | 10/16/91             | Yes                   |
| 59  | 25C123   | MIDSET COGEN. CO.                      | TAFT / KERN               | 4              | NATURAL GAS EOR       | 46,000              | 3/16/89              | Yes                   |
| 60  | 25C231   | MIDSUN PARTNERS                        | TAFT / KERN               | 2              | NATURAL GAS           | 27,350              | 2/27/89              |                       |
| 61  | 25C321   | MIDWAY-SUNSET COGEN. CO.               | FELLOWS / KERN            | 1              | NATURAL GAS EOR       | 30,000              | 12/18/89             | Yes                   |
| 62  | 08C043   | MILPITAS UNIFIED SCHOOL DISTRICT       | MILPITAS / SANTA CLARA    | 3              | NATURAL GAS           | 60                  | 5/12/86              |                       |
| 63  | 18C048   | MONTEREY POWER COMPANY                 | SALINAS / MONTEREY        | 2              | NATURAL GAS           | 6,000               | 12/29/90             |                       |
| 64  | 04C101   | MT. TAM RACQUET CLUB                   | NEAR LARKSPUR / MARIN     | 3              | NATURAL GAS           | 60                  | 9/9/85               |                       |
| 65  | 25C018   | MT.POSO COGENERATION CO.               | BAKERSFIELD / KERN        | 4              | COAL                  | 49,500              | 4/1/89               | Yes                   |
| 66  | 04C054   | NAPA STATE HOSPITAL                    | NAPA / NAPA               | 1              | NATURAL GAS           | 1,330               | 7/18/84              |                       |

\* Contract Type: 1/ As-Delivered Capacity & Energy, 2/ Firm Capacity & Energy, 3/ Energy Purchase, 4/ Long-term Energy Capacity

## Summary of Signed Contracts

### Cogeneration Projects - Operational and Currently Delivering

July 1997

| No. | Log. No. | Project                           | City / County                  | Contract Type* | Primary Energy Source | Operating Size (kW) | Operating Start Date | Enhanced Oil Recovery |
|-----|----------|-----------------------------------|--------------------------------|----------------|-----------------------|---------------------|----------------------|-----------------------|
| 67  | 25C337   | NAVY 35R                          | TUPMAN / KERN                  | 1              | NATURAL GAS           | 58,914              | 11/2/94              |                       |
| 68  | 02C058   | NIHONMACHI TERRACE                | SAN FRANCISCO / SAN FRANCISCO  | 3              | NATURAL GAS           | 75                  | 6/1/92               |                       |
| 69  | 25C293   | NUEVO ENERGY COMPANY (DOME)       | FELLOWS / KERN                 | 1              | NATURAL GAS EOR       | 6,064               | 9/2/88               | Yes                   |
| 70  | 25C308   | NUEVO ENERGY COMPANY (WELPORT)    | MCKITTRICK / KERN              | 1              | NATURAL GAS EOR       | 3,750               | 1/27/90              | Yes                   |
| 71  | 25C170   | OILDALE ENERGY LLC                | OILDALE / KERN                 | 4              | NATURAL GAS           | 33,800              | 12/29/84             |                       |
| 72  | 01C245   | ORINDA SENIOR VILLAGE             | ORINDA / CONTRA COSTA          | 3              | NATURAL GAS           | 60                  | 2/6/91               |                       |
| 73  | 12C019   | OROVILLE COGEN                    | OROVILLE / BUTTE               | 2              | NATURAL GAS           | 8,500               | 12/18/89             |                       |
| 74  | 08C017   | OWL COMPANIES                     | SANTA RUZ / SANTA CRUZ         | 1              | NATURAL GAS           | 600                 | 12/30/85             |                       |
| 75  | 01C084   | PE - BERKELEY, INC.               | BERKELEY / ALAMEDA             | 4              | NATURAL GAS           | 26,350              | 5/19/87              |                       |
| 76  | 25C164   | PE - KES KINGSBURG, LLC           | KINGSBURG / FRESNO             | 2              | NATURAL GAS           | 34,500              | 12/5/90              |                       |
| 77  | 16C007   | POSDEF (COGEN NATIONAL)           | PORT OF STOCKTON / SAN JOAQUIN | 4              | COAL                  | 44,000              | 12/7/87              |                       |
| 78  | 06C027   | PROCTER AND GAMBLE                | SACRAMENTO / SACRAMENTO        | 1              | NATURAL GAS           | 20,300              | 1/15/94              |                       |
| 79  | 08C101   | REACH FITNESS INC.                | LOS ALTOS / SANTA CLARA        | 3              | NATURAL GAS           | 26                  | 6/10/91              |                       |
| 80  | 13C160   | RED BLUFF UNION HIGH SCHOOL       | RED BLUFF / TEHAMA             | 3              | NATURAL GAS           | 60                  | 7/15/91              |                       |
| 81  | 01C108   | RHONE-POULENC (STAUFFER CHEMICAL) | MARTINEZ / CONTRA COSTA        | 1              | NATURAL GAS           | 4,000               | 6/1/77               |                       |
| 82  | 16C034   | RIPON COGENERATION, INC.          | RIPON / SAN JOAQUIN            | 4              | NATURAL GAS           | 49,500              | 4/19/88              |                       |
| 83  | 25C178   | SAINT AGNES MED. CTR              | FRESNO / FRESNO                | 1              | NATURAL GAS           | 2,325               | 11/21/85             |                       |
| 84  | 18C053   | SALINAS RIVER COGEN CO.           | SAN ARDO / MONTEREY            | 4              | NATURAL GAS EOR       | 49,900              | 10/11/91             | Yes                   |
| 85  | 25C057   | SAN JOAQUIN COGEN                 | LATHROP / SAN JOAQUIN          | 2              | NATURAL GAS           | 49,900              | 1/9/90               |                       |
| 86  | 25C045   | SAN JOAQUIN POWER COMPANY         | ATWATER / MERCED               | 2              | NATURAL GAS           | 10,750              | 4/19/91              |                       |
| 87  | 08C030   | SAN JOSE COGEN                    | SAN JOSE / SANTA CLARA         | 1              | NATURAL GAS           | 6,000               | 12/18/84             |                       |
| 88  | 08C026   | SAN JOSE CONVENTION CENTER        | SAN JOSE / SANTA CLARA         | 1              | NATURAL GAS           | 1,500               | 4/2/90               |                       |
| 89  | 08C011   | SANTA CRUZ COGEN                  | UC SANTA CRUZ / SANTA CRUZ     | 4              | NATURAL GAS           | 2,635               | 11/1/85              |                       |
| 90  | 18C026   | SANTA MARIA COGEN                 | SANTA MARIA / SANTA BARBARA    | 4              | NATURAL GAS           | 8,044               | 6/21/89              |                       |
| 91  | 18C052   | SARGENT CANYON COGEN. COMPANY     | SAN ARDO / MONTEREY            | 4              | NATURAL GAS EOR       | 49,900              | 10/7/91              | Yes                   |
| 92  | 01C199   | SATELLITE SENIOR HOMES            | OAKLAND / ALAMEDA              | 3              | NATURAL GAS           | 60                  | 7/17/86              |                       |
| 93  | 01C251   | SHELL OIL REFINERY                | MARTINEZ / CONTRA COSTA        | 1              | NATURAL GAS           | 90,000              | 12/12/95             |                       |
| 94  | 06C017   | SOLANO CO. GOVERNMENT CENTER      | VACAVILLE / SOLANO             | 4              | NATURAL GAS           | 1,450               | 6/15/89              |                       |
| 95  | 18C021   | SOLEDAD COGEN                     | SOLEDAD / MONTEREY             | 4              | NATURAL GAS           | 2,200               | 10/26/85             |                       |
| 96  | 02C041   | SRI INTERNATIONAL                 | MENLO PARK / SAN MATEO         | 1              | NATURAL GAS           | 6,000               | 3/10/87              |                       |
| 97  | 01C089   | STANFORD ENERGY GROUP             | OAKLAND / ALAMEDA              | 3              | NATURAL GAS           | 115                 | 1/8/86               |                       |
| 98  | 16C036   | STOCKTON COGEN CO.                | STOCKTON / SAN JOAQUIN         | 4              | COAL                  | 49,900              | 2/26/88              |                       |
| 99  | 04C143   | TENNIS EVERYONE                   | NOVATO / MARIN                 | 3              | NATURAL GAS           | 56                  | 7/7/93               |                       |

\* Contract Type: 1/ As-Delivered Capacity & Energy, 2/ Firm Capacity & Energy, 3/ Energy Purchase, 4/ Long-term Energy Capacity

**Summary of Signed Contracts**  
**Cogeneration Projects - Operational and Currently Delivering**  
**July 1997**

| No.           | Log. No. | Project                              | City / County                 | Contract Type* | Primary Energy Source | Operating Size (kW) | Operating Start Date | Enhanced Oil Recovery |
|---------------|----------|--------------------------------------|-------------------------------|----------------|-----------------------|---------------------|----------------------|-----------------------|
| 100           | 25C004   | TEXACO INC. (LOST HILLS)             | LOST HILLS / KERN             | 1              | NATURAL GAS EOR       | 10,970              | 10/8/95              | Yes                   |
| 101           | 25C193   | TEXACO INC. (MCKITTRICK)             | MCKITTRICK / KERN             | 1              | NATURAL GAS EOR       | 10,970              | 10/1/94              | Yes                   |
| 102           | 25C005   | TEXACO INC. (NORTH MIDWAY)           | MCKITTRICK / KERN             | 1              | NATURAL GAS EOR       | 10,970              | 6/27/86              | Yes                   |
| 103           | 01C189   | TOSCO (AKA UNOCAL PETRO PROD & CHEM) | RODEO / CONTRA COSTA          | 2              | NATURAL GAS           | 27,380              | 12/1/83              |                       |
| 104           | 01C061   | TOSCO (AKA UNOCAL S.F. REFINERY)     | RODEO / CONTRA COSTA          | 1              | NATURAL GAS           | 49,900              | 5/21/87              |                       |
| 105           | 25C076   | ULTRA PWR (OGLE)                     | BAKERSFIELD / KERN            | 4              | COAL                  | 37,000              | 9/27/89              | Yes                   |
| 106           | 02C001   | UNITED COGEN                         | SAN BRUNO / SAN MATEO         | 4              | NATURAL GAS           | 30,000              | 9/12/86              |                       |
| 107           | 02C003   | UNIVERSITY OF SAN FRANCISCO          | SAN FRANCISCO / SAN FRANCISCO | 1              | NATURAL GAS           | 1,500               | 6/1/87               |                       |
| 108           | 02C049   | WESTMOOR HIGH SCHOOL                 | DALY CITY / SAN MATEO         | 3              | NATURAL GAS           | 60                  | 4/9/87               |                       |
| 109           | 13P162   | WHEELABRATOR HUDSON                  | ANDERSON / SHASTA             | 4              | WOODWASTE             | 6,875               | 7/12/93              |                       |
| 110           | 13C082   | WHEELABRATOR LASSEN INC.             | ANDERSON / SHASTA             | 2              | NATURAL GAS           | 42,000              | 4/28/83              |                       |
| 111           | 06C153   | YOUNG RADIO INC.                     | FAIRFIELD / SOLANO            | 3              | NATURAL GAS           | 20                  | 1/16/91              |                       |
| 112           | 04C008   | YOUNTVILLE COGEN ASSOCIATES          | YOUNTVILLE / NAPA             | 4              | NATURAL GAS           | 3,000               | 8/6/86               |                       |
| 113           | 12C026   | YUBA CITY COGEN                      | YUBA CITY / SUTTER            | 4              | NATURAL GAS           | 49,000              | 12/27/90             |                       |
| 114           | 12C085   | YUBA CITY RACQUET CLUB               | YUBA CITY / SUTTER            | 3              | NATURAL GAS           | 60                  | 7/18/91              |                       |
| <b>Total:</b> |          |                                      |                               |                |                       | <b>2,950,306</b>    |                      |                       |

\* Contract Type: 1/ As-Delivered Capacity & Energy, 2/ Firm Capacity & Energy, 3/ Energy Purchase, 4/ Long-term Energy Capacity

**Summary of Signed Contracts**  
**Small Power Projects - Operational and Currently Delivering**

**July 1997**

**BIOGAS**

| No.           | Log. No. | Project                            | City/County               | Contract Type* | Primary Energy Source | Operating Size (kW) | Operating Start Date |
|---------------|----------|------------------------------------|---------------------------|----------------|-----------------------|---------------------|----------------------|
| 1             | 01P219   | BIO-ENERGY PART.                   | LIVERMORE / ALAMEDA       | 1              | LANDFILL GAS          | 6,000               | 5/4/89               |
| 2             | 04P051   | COUNTY OF SONOMA                   | PETALUMA / SONOMA         | 1              | LANDFILL GAS          | 6,000               | 4/30/93              |
| 3             | 04P010   | GAS RECOVERY SYS. (AMERICAN CYN)   | AMERICAN CANYON / NAPA    | 4              | LANDFILL GAS          | 1,500               | 12/27/85             |
| 4             | 08P006   | GAS RECOVERY SYS. (GUADALUPE)      | LOS GATOS / SANTA CLARA   | 4              | LANDFILL GAS          | 1,443               | 1/12/84              |
| 5             | 02P014   | GAS RECOVERY SYS. (MENLO PARK)     | MENLO PARK / SAN MATEO    | 2              | LANDFILL GAS          | 2,000               | 1/11/83              |
| 6             | 08P004   | GAS RECOVERY SYS. (NEWBY ISLAND 2) | SAN JOSE / SANTA CLARA    | 4              | LANDFILL GAS          | 4,200               | 8/3/84               |
| 7             | 08P021   | LANDFILL GENERATING PTNRS. I       | SANTA CRUZ / SANTA CRUZ   | 4              | LANDFILL GAS          | 930                 | 11/22/88             |
| 8             | 10P058   | LANGERWERF DAIRY                   | DURHAM / BUTTE            | 3              | DIGESTER GAS          | 85                  | 11/3/82              |
| 9             | 18P059   | MONTEREY REGIONAL WASTE MGMT DIST. | MARINA / MONTEREY         | 2              | LANDFILL GAS          | 1,300               | 12/30/83             |
| 10            | 18C001   | MONTEREY REGIONAL WATER            | MARINA / MONTEREY         | 1              | DIGESTER GAS          | 1,740               | 8/26/88              |
| 11            | 04P116   | NAPA SANITATION DISTRICT           | NAPA / NAPA               | 3              | LANDFILL GAS          | 98                  | 1/10/86              |
| 12            | 01P070   | NOVE INVESTMENTS                   | RICHMOND / CONTRA COSTA   | 4              | LANDFILL GAS          | 3,000               | 12/31/85             |
| 13            | 18P014   | PACIFIC ENERGY (SALINAS)           | SALINAS / MONTEREY        | 4              | LANDFILL GAS          | 1,500               | 11/10/86             |
| 14            | 08P008   | PACIFIC ENERGY (SANTA CLARA)       | SANTA CLARA / SANTA CLARA | 4              | LANDFILL GAS          | 2,000               | 10/22/86             |
| 15            | 16P001   | PACIFIC ENERGY (STOCKTON)          | STOCKTON / SAN JOAQUIN    | 4              | LANDFILL GAS          | 800                 | 11/27/85             |
| 16            | 08P024   | PALO ALTO LANDFILL                 | PALO ALTO / SANTA CLARA   | 4              | LANDFILL GAS          | 2,000               | 6/13/90              |
| 17            | 25C326   | ROY SHARP JR.                      | CARUTHERS / FRESNO        | 3              | DIGESTER GAS          | 100                 | 11/21/91             |
| <b>Total:</b> |          |                                    |                           |                |                       | <b>34,696</b>       |                      |

\* Contract Type: 1/ As-Delivered Capacity & Energy, 2/ Firm Capacity & Energy, 3/ Energy Purchase, 4/ Long-term Energy Capacity



**Summary of Signed Contracts**  
**Small Power Projects - Operational and Currently Delivering**

**July 1997**

**BIOMASS**

| No.           | Log. No. | Project                          | City/County                | Contract Type* | Primary Energy Source | Operating Size (kW) | Operating Start Date |
|---------------|----------|----------------------------------|----------------------------|----------------|-----------------------|---------------------|----------------------|
| 1             | 13C010   | BIG VALLEY LUMBER COMPANY        | BIEBER / LASSEN            | 2              | WOODWASTE             | 5,000               | 8/18/83              |
| 2             | 13C038   | BURNEY FOREST PRODUCTS           | BURNEY / SHASTA            | 4              | WOODWASTE             | 31,000              | 10/17/89             |
| 3             | 13P118   | BURNEY MT. POWER                 | BURNEY / SHASTA            | 4              | WOODWASTE             | 9,750               | 8/15/84              |
| 4             | 10C003   | COLLINS PINE                     | CHESTER / PLUMAS           | 2              | WOODWASTE             | 12,000              | 4/4/84               |
| 5             | 16C088   | DIAMOND WALNUT GROWERS INC.      | STOCKTON / SAN JOAQUIN     | 2              | WALNUT SHELLS         | 4,500               | 11/25/80             |
| 6             | 19P005   | FAIRHAVEN POWER CO.              | FAIRHAVEN / HUMBOLDT       | 4              | WOODWASTE             | 17,250              | 9/15/86              |
| 7             | 04P056   | GEORGIA PACIFIC CORP.            | FORT BRAGG / MENDOCINO     | 1              | WOODWASTE             | 15,000              | 6/1/80               |
| 8             | 10P005   | HONEY LAKE POWER COMPANY         | WENDEL / LASSEN            | 4              | WOODWASTE             | 30,000              | 7/26/89              |
| 9             | 25C013   | MENDOTA BIOMASS POWER            | MENDOTA / FRESNO           | 4              | WOODWASTE             | 25,000              | 6/29/89              |
| 10            | 10P001   | MT LASSEN POWER                  | WESTWOOD / LASSEN          | 4              | WOODWASTE             | 10,500              | 10/11/84             |
| 11            | 19C010   | PACIFIC LUMBER CO.               | SCOTIA / HUMBOLDT          | 1              | WOODWASTE             | 20,000              | 3/22/86              |
| 12            | 12P001   | PACIFIC OROVILLE POWER INC       | OROVILLE / BUTTE           | 4              | WOODWASTE             | 18,000              | 9/26/85              |
| 13            | 12C008   | SIERRA PACIFIC IND. (BOHEMIA)    | LINCOLN / PLACER           | 4              | WOODWASTE             | 7,500               | 6/3/86               |
| 14            | 13C049   | SIERRA PACIFIC IND. (BURNEY)     | BURNEY / SHASTA            | 4              | WOODWASTE             | 20,000              | 11/4/86              |
| 15            | 13C002   | SIERRA PACIFIC IND. (HAYFORK)    | HAYFORK / TRINITY          | 2              | WOODWASTE             | 9,000               | 1/5/85               |
| 16            | 10C018   | SIERRA PACIFIC IND. (QUINCY)     | QUINCY / PLUMAS            | 4              | WOODWASTE             | 20,000              | 1/14/83              |
| 17            | 10C009   | SIERRA PACIFIC IND. (SUSANVILLE) | SUSANVILLE / LASSEN        | 4              | WOODWASTE             | 15,000              | 10/5/81              |
| 18            | 16P054   | THERMAL ENERGY DEV. CORP.        | TRACY / SAN JOAQUIN        | 4              | WOODWASTE             | 21,000              | 4/26/90              |
| 19            | 19P001   | ULTRAPOWER (BLUE LAKE)           | BLUE LAKE / HUMBOLDT       | 4              | WOODWASTE             | 11,400              | 7/3/85               |
| 20            | 16P002   | ULTRAPOWER (CHINESE STATION)     | CHINESE STATION / TUOLUMNE | 4              | WOODWASTE             | 22,000              | 6/4/86               |
| 21            | 12P018   | WADHAM ENERGY LTD. PART.         | WILLIAMS / COLUSA          | 4              | RICE HULLS            | 26,500              | 3/24/89              |
| 22            | 13P045   | WHEELABRATOR SHASTA              | COTTONWOOD / SHASTA        | 4              | WOODWASTE             | 54,900              | 10/30/87             |
| 23            | 06P022   | WOODLAND BIOMASS                 | WOODLAND / YOLO            | 4              | AGRICULTURAL WASTE    | 25,000              | 8/31/89              |
| <b>Total:</b> |          |                                  |                            |                |                       | <b>430,300</b>      |                      |

\* Contract Type: 1/ As-Delivered Capacity & Energy, 2/ Firm Capacity & Energy, 3/ Energy Purchase, 4/ Long-term Energy Capacity

**Summary of Signed Contracts**  
**Small Power Projects - Operational and Currently Delivering**  
**July 1997**  
**GEOHERMAL**

| No.           | Log. No. | Project                             | City/County             | Contract Type* | Primary Energy Source | Operating Size (kW) | Operating Start Date |
|---------------|----------|-------------------------------------|-------------------------|----------------|-----------------------|---------------------|----------------------|
| 1             | 10G012   | AMEDEE GEOTHERMAL VENTURE 1         | WENDEL / LASSEN         | 4              | GEOHERMAL             | 2,200               | 9/11/88              |
| 2             | 04G057   | CALISTOGA GEOTHERMAL PARTNERS, L.P. | THE GEYSERS / LAKE      | 2              | GEOHERMAL             | 80,000              | 3/14/84              |
| 3             | 04G012   | CALPINE GEYSERS CO. L. P. (KW#1)    | ANDERSON SPRINGS / LAKE | 4              | GEOHERMAL             | 10,000              | 9/6/88               |
| 4             | 04G016   | CALPINE GEYSERS CO. L. P. (KW#2)    | ANDERSON SPRINGS / LAKE | 4              | GEOHERMAL             | 10,000              | 9/2/88               |
| 5             | 04G025   | CALPINE GEYSERS CO. L. P. (WFF)     | THE GEYSERS / LAKE      | 4              | GEOHERMAL             | 27,000              | 12/11/88             |
| 6             | 04G018   | GEOHERMAL ENERGY PARTNERS 1         | THE GEYSERS / SONOMA    | 4              | GEOHERMAL             | 10,000              | 6/16/89              |
| 7             | 04G019   | GEOHERMAL ENERGY PARTNERS 2         | THE GEYSERS / SONOMA    | 4              | GEOHERMAL             | 10,000              | 5/28/89              |
| 8             | 10G011   | WINEAGLE DEVELOPERS 1               | WENDEL / LASSEN         | 4              | GEOHERMAL             | 700                 | 6/11/85              |
| <b>Total:</b> |          |                                     |                         |                |                       | <b>149,900</b>      |                      |

\* Contract Type: 1/ As-Delivered Capacity & Energy, 2/ Firm Capacity & Energy, 3/ Energy Purchase, 4/ Long-term Energy Capacity

## Summary of Signed Contracts

### Small Power Projects - Operational and Currently Delivering

July 1997

HYDRO

| No. | Log. No. | Project                             | City/County                | Contract Type* | Primary Energy Source | Operating Size (kW) | Operating Start Date |
|-----|----------|-------------------------------------|----------------------------|----------------|-----------------------|---------------------|----------------------|
| 1   | 15H052   | ADRIAN B. HAEMMIG                   | GRASS VALLEY / NEVADA      | 3              | HYDRO                 | 15                  | 7/1/82               |
| 2   | 13H008   | ARBUCKLE MOUNTAIN HYDRO PROJECT     | PLATINA / SHASTA           | 4              | HYDRO                 | 300                 | 12/1/86              |
| 3   | 13H119   | BAILEY CREEK RANCH                  | MANTON / SHASTA            | 3              | HYDRO                 | 800                 | 5/26/82              |
| 4   | 15H072   | BERTHA WRIGHT BERTILLION            | WRIGHT RANCH / SIERRA      | 3              | HYDRO                 | 40                  | 11/22/85             |
| 5   | 04H011   | BES HYDRO                           | POTTER VALLEY / MENDOCINO  | 4              | HYDRO                 | 400                 | 9/30/87              |
| 6   | 13H005   | BIG CREEK WATER WORKS LTD.          | HYAMPOM / TRINITY          | 4              | HYDRO                 | 4,800               | 1/7/87               |
| 7   | 12H054   | BROWNS VALLEY IRRIGATION DIST.      | BROWNS VALLEY / YUBA       | 1              | HYDRO                 | 1,000               | 6/29/84              |
| 8   | 15H053   | BUCKEYE 82 INVESTORS                | GEORGETOWN / EL DORADO     | 2              | HYDRO                 | 347                 | 5/24/83              |
| 9   | 19H004   | BURGESS, NORMAN ROSS                | ZENIA / TRINITY            | 4              | HYDRO                 | 1,250               | 12/28/84             |
| 10  | 16H008   | CALAVERAS CTY WD                    | SAN ANDREAS / CALAVERAS    | 1              | HYDRO                 | 3,300               | 4/15/86              |
| 11  | 16H092   | CALAVERAS YUBA HYDRO #1             | MOKELUMNE HILL / CALAVERAS | 3              | HYDRO                 | 90                  | 4/15/86              |
| 12  | 16H092A  | CALAVERAS YUBA HYDRO #2             | CHILI GULCH / CALAVERAS    | 3              | HYDRO                 | 90                  | 4/15/86              |
| 13  | 16H092B  | CALAVERAS YUBA HYDRO #3             | CHILI GULCH / CALAVERAS    | 3              | HYDRO                 | 90                  | 4/15/86              |
| 14  | 25H204   | CANAL CREEK POWER PLANT             | MERCED / MERCED            | 1              | HYDRO                 | 900                 | 11/1/82              |
| 15  | 19H048   | CEDAR FLAT HYDRO                    | BURNT RANCH / TRINITY      | 4              | HYDRO                 | 300                 | 1/9/84               |
| 16  | 04H060   | CITY OF VALLEJO                     | VALLEJO / SOLANO           | 1              | HYDRO                 | 300                 | 1/15/85              |
| 17  | 15H012   | EAGLE HYDRO                         | GEORGETOWN / EL DORADO     | 1              | HYDRO                 | 480                 | 12/23/85             |
| 18  | 13H001   | EL DORADO (MONTGOMERY CK)           | MONTGOMERY CREEK / SHASTA  | 4              | HYDRO                 | 2,600               | 2/28/87              |
| 19  | 10H013   | ENERGY GROWTH PARTNERS I            | DE SABLA CITY / BUTTE      | 4              | HYDRO                 | 10,800              | 3/16/92              |
| 20  | 25H193   | FAIRFIELD POWER PLANT               | MERCED / MERCED            | 1              | HYDRO                 | 900                 | 8/2/83               |
| 21  | 10H010   | FIVE BEARS HYDROELECTRIC            | TAYLORSVILLE / PLUMAS      | 4              | HYDRO                 | 990                 | 4/27/89              |
| 22  | 25H037   | FRIANT DAM                          | FRIANT / MADERA            | 4              | HYDRO                 | 25,000              | 4/16/85              |
| 23  | 12H056   | GLENN COLUSA IRR. DIST. (FUNKS CK)  | MAXWELL / COLUSA           | 3              | HYDRO                 | 93                  | 8/2/85               |
| 24  | 12H053   | GLENN COLUSA IRR. DIST. (STOVALL 2) | WILLIAMS / COLUSA          | 4              | HYDRO                 | 115                 | 5/20/83              |
| 25  | 04H052   | HAMMEKEN HYDRO                      | POTTER VALLEY / MENDOCINO  | 4              | HYDRO                 | 330                 | 3/27/90              |
| 26  | 13H123   | HAT CREEK HEREFORD RANCH            | HAT CREEK / SHASTA         | 3              | HYDRO                 | 100                 | 12/9/82              |
| 27  | 15H005   | HAYPRESS HYDROELECTRIC, INC. (LWR)  | SIERRA CITY / SIERRA       | 4              | HYDRO                 | 6,100               | 4/11/89              |
| 28  | 15H006   | HAYPRESS HYDROELECTRIC, INC. (MDL)  | SIERRA CITY / SIERRA       | 4              | HYDRO                 | 8,700               | 4/15/89              |
| 29  | 15H002   | HENWOOD ASSOCIATES                  | SIERRA CITY / SIERRA       | 4              | HYDRO                 | 594                 | 11/28/84             |

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## Summary of Signed Contracts

### Small Power Projects - Operational and Currently Delivering

July 1997

HYDRO

| No. | Log. No. | Project                                 | City/County                       | Contract Type* | Primary Energy Source | Operating Size (kW) | Operating Start Date |
|-----|----------|---|-----------------------------------|----------------|-----------------------|---------------------|----------------------|
| 30  | 13H012   | HIGHLAND HYDRO CONSTR. INC. - III       | OAK RUN / SHASTA                  | 1              | HYDRO                 | 200                 | 2/1/85               |
| 31  | 19H051   | HUMBOLDT BAY MWD                        | RUTH / TRINITY                    | 1              | HYDRO                 | 1,300               | 4/10/83              |
| 32  | 04H061   | INDIAN VALLEY HYDRO                     | CLEAR LAKE / LAKE                 | 1              | HYDRO                 | 2,900               | 9/15/83              |
| 33  | 16H095   | JACKSON VALLEY IRRIGATION DIST          | IONE / AMADOR                     | 1              | HYDRO                 | 455                 | 9/1/82               |
| 34  | 10H059   | JAMES B. PETER                          | TAYLORSVILLE / PLUMAS             | 3              | HYDRO                 | 15                  | 1/17/84              |
| 35  | 10H090   | JAMES CRANE HYDRO                       | CHICO / BUTTE                     | 3              | HYDRO                 | 3                   | 6/20/91              |
| 36  | 04H134   | JOHN NEERHOUT JR.                       | CALISTOGA / NAPA                  | 3              | HYDRO                 | 75                  | 5/1/87               |
| 37  | 10H007   | KATHLEEN AUSTIN DBA GANSNER PWR. & WTR. | QUINCY / PLUMAS                   | 1              | HYDRO                 | 275                 | 4/6/85               |
| 38  | 25H073   | KERN HYDRO (OLCESE)                     | BAKERSFIELD / KERN                | 4              | HYDRO                 | 16,000              | 5/18/89              |
| 39  | 25H150   | KINGS RIVER HYDRO CO.                   | FRESNO / FRESNO                   | 4              | HYDRO                 | 1,000               | 8/19/90              |
| 40  | 10H002   | LASSEN STATION HYDRO                    | PULGA / BUTTE                     | 4              | HYDRO                 | 990                 | 5/22/86              |
| 41  | 25H040   | MADERA CANAL (1174 + 84)                | MADERA / MADERA                   | 4              | HYDRO                 | 563                 | 4/11/86              |
| 42  | 25H042   | MADERA CANAL (1923)                     | MADERA / MADERA                   | 4              | HYDRO                 | 925                 | 4/1/86               |
| 43  | 25H041   | MADERA CANAL STATION 1302               | MADERA / MADERA                   | 4              | HYDRO                 | 424                 | 4/16/86              |
| 44  | 25H036   | MADERA CHOWCHILLA                       | MADERA / MADERA                   | 4              | HYDRO                 | 1,800               | 2/2/85               |
| 45  | 13H047   | MALACHA HYDRO L.P.                      | PITVILLE / LASSEN                 | 4              | HYDRO                 | 26,000              | 12/7/88              |
| 46  | 04H062   | MCFADDEN FARM                           | POTTER VALLEY / MENDOCINO         | 1              | HYDRO                 | 350                 | 7/1/83               |
| 47  | 13H124   | MCMILLAN HYDRO                          | MONTGOMERY CREEK / SHASTA         | 4              | HYDRO                 | 975                 | 3/22/84              |
| 48  | 13H125   | MEGA HYDRO #1 (CLOVER CREEK)            | OAK RUN / SHASTA                  | 4              | HYDRO                 | 1,000               | 2/21/86              |
| 49  | 13H122   | MEGA HYDRO (GOOSE VALLEY RANCH)         | BURNEY / SHASTA                   | 4              | HYDRO                 | 280                 | 4/8/83               |
| 50  | 13H017   | MEGA RENEWABLES (BIDWELL DITCH)         | BURNEY / SHASTA                   | 4              | HYDRO                 | 2,000               | 2/22/87              |
| 51  | 13H015   | MEGA RENEWABLES (HATCHET CRK)           | MONTGOMERY CR. / SHASTA           | 4              | HYDRO                 | 7,000               | 1/5/87               |
| 52  | 13H014   | MEGA RENEWABLES (ROARING CRK)           | MONTGOMERY CREEK / SHASTA         | 4              | HYDRO                 | 2,000               | 12/5/86              |
| 53  | 13H036   | MEGA RENEWABLES (SILVER SPRINGS)        | BIG BEND / SHASTA                 | 4              | HYDRO                 | 600                 | 8/15/87              |
| 54  | 25H185   | MERCED ID (PARKER)                      | MERCED / MERCED                   | 1              | HYDRO                 | 2,690               | 9/23/81              |
| 55  | 19H006   | MILL & SULPHUR CREEK                    | DINSMORE / HUMBOLDT               | 4              | HYDRO                 | 990                 | 2/23/88              |
| 56  | 18H034   | MONTEREY CTY WATER RES AGENCY           | SAN LUIS OBISPO / SAN LUIS OBISPO | 4              | HYDRO                 | 3,750               | 7/13/87              |
| 57  | 13H042   | NELSON CREEK POWER INC.                 | BIG BEND / SHASTA                 | 4              | HYDRO                 | 1,100               | 12/19/88             |
| 58  | 15H015   | NEVADA POWER AUTHORITY                  | NEVADA CITY / NEVADA              | 4              | HYDRO                 | 3,600               | 8/18/86              |

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## Summary of Signed Contracts

### Small Power Projects - Operational and Currently Delivering

July 1997

HYDRO

| No. | Log. No. | Project                                | City/County                 | Contract Type* | Primary Energy Source | Operating Size (kW) | Operating Start Date |
|-----|----------|--|-----------------------------|----------------|-----------------------|---------------------|----------------------|
| 59  | 15H013   | NID/COMBIE NORTH                       | MEADOW VISTA / PLACER       | 4              | HYDRO                 | 330                 | 3/24/88              |
| 60  | 15H054   | NID/COMBIE SOUTH                       | PLACER CITY / PLACER        | 4              | HYDRO                 | 1,500               | 4/26/84              |
| 61  | 15H001   | NID/SCOTTS FLAT                        | NEVADA CITY / NEVADA        | 4              | HYDRO                 | 850                 | 12/14/84             |
| 62  | 13H024   | OLSEN POWER PARTNERS                   | WHITMORE / SHASTA           | 4              | HYDRO                 | 5,000               | 1/3/90               |
| 63  | 25H149   | ORANGE COVE IRRIGATION DIST.           | FRESNO / FRESNO             | 4              | HYDRO                 | 450                 | 8/23/90              |
| 64  | 13H128   | PAN PACIFIC (WEBER FLAT)               | COVINGTON MILL / TRINITY    | 4              | HYDRO                 | 750                 | 1/11/84              |
| 65  | 10H061   | PARADISE IRRIGATION (TANK C)           | PARADISE / BUTTE            | 3              | HYDRO                 | 40                  | 3/4/82               |
| 66  | 10H067   | PARADISE IRRIGATION (TANK D)           | PARADISE / BUTTE            | 3              | HYDRO                 | 20                  | 9/16/85              |
| 67  | 10H060   | PERRY LOGGING                          | CHICO / BUTTE               | 1              | HYDRO                 | 300                 | 1/26/83              |
| 68  | 15H059   | PLACER COUNTY WATER AGENCY             | FOREST HILL / PLACER        | 1              | HYDRO                 | 500                 | 4/30/83              |
| 69  | 13H127   | ROBERT W. LEE                          | MONTON / SHASTA             | 3              | HYDRO                 | 30                  | 7/9/82               |
| 70  | 06H011   | ROCK CREEK L.P.                        | PLACERVILLE / EL DORADO     | 4              | HYDRO                 | 3,000               | 4/24/86              |
| 71  | 16H033   | ROSENFELD FAMILY TRUST                 | SALT SPRINGS VA / CALAVERAS | 1              | HYDRO                 | 700                 | 2/25/86              |
| 72  | 13H120   | RUGRAW INC (BAKER CREEK)               | BIG BEND / SHASTA           | 1              | HYDRO                 | 300                 | 11/4/83              |
| 73  | 13H132   | RUGRAW INC.(DIGGER CREEK)              | MONTON / TEHAMA             | 1              | HYDRO                 | 600                 | 5/18/83              |
| 74  | 08H013   | SANTA CLARA VALLEY WATER DIST.         | MORGAN HILL / SANTA CLARA   | 4              | HYDRO                 | 800                 | 12/1/88              |
| 75  | 16H030   | SCHAADS HYDRO PARTNERS                 | WILSEYVILLE / CALAVERAS     | 1              | HYDRO                 | 230                 | 2/18/86              |
| 76  | 15H055   | SIERRA ENERGY COMPANY                  | FORESTHILL / SONOMA         | 1              | HYDRO                 | 200                 | 1/11/88              |
| 77  | 13H016   | SNOW MOUNTAIN HYDRO LLC (BURNEY CREEK) | BURNEY / SHASTA             | 4              | HYDRO                 | 3,000               | 3/28/90              |
| 78  | 13H013   | SNOW MOUNTAIN HYDRO LLC (COVE)         | MONTGOMERY CR. / SHASTA     | 4              | HYDRO                 | 5,000               | 2/20/90              |
| 79  | 13H057   | SNOW MOUNTAIN HYDRO LLC (LOST CREEK 1) | LOST CREEK / SHASTA         | 4              | HYDRO                 | 1,400               | 10/9/89              |
| 80  | 13H041   | SNOW MOUNTAIN HYDRO LLC (LOST CREEK 2) | HAT CREEK / SHASTA          | 4              | HYDRO                 | 500                 | 6/15/89              |
| 81  | 13H035   | SNOW MOUNTAIN HYDRO LLC (PONDEROSA)    | MANTON / SHASTA             | 4              | HYDRO                 | 1,100               | 1/25/90              |
| 82  | 04H009   | SONOMA COUNTY WATER AGENCY             | GEYSERVILLE / SONOMA        | 4              | HYDRO                 | 2,600               | 12/22/88             |
| 83  | 16H094   | SOUTH SAN JOAQUIN ID (FRANKENHEIMER)   | OAKDALE / STANISLAUS        | 1              | HYDRO                 | 5,035               | 2/12/83              |
| 84  | 16H097   | SOUTH SAN JOAQUIN ID (WOODWARD)        | OAKDALE / STANISLAUS        | 1              | HYDRO                 | 2,850               | 4/16/82              |
| 85  | 12H004   | SOUTH SUTTER WATER                     | SHERIDAN / PLACER           | 4              | HYDRO                 | 395                 | 7/17/85              |
| 86  | 19H049   | STEVEN SPELLENBERG HYDRO               | BURNT RANCH / TRINITY       | 3              | HYDRO                 | 28                  | 12/5/83              |
| 87  | 12H007   | STS HYDROPOWER LTD. (KANAKA)           | FEATHER FALLS / BUTTE       | 4              | HYDRO                 | 1,100               | 2/13/89              |

\* Contract Type: 1/ As-Delivered Capacity & Energy, 2/ Firm Capacity & Energy, 3/ Energy Purchase, 4/ Long-term Energy Capacity

**Summary of Signed Contracts**  
**Small Power Projects - Operational and Currently Delivering**

**July 1997**

**HYDRO**

| No.           | Log. No. | Project                                 | City/County            | Contract Type* | Primary Energy Source | Operating Size (kW) | Operating Start Date |
|---------------|----------|---|------------------------|----------------|-----------------------|---------------------|----------------------|
| 88            | 13H039   | STS HYDROPOWER LTD. (KEKAWAKA)          | ALDERPOINT / TRINITY   | 4              | HYDRO                 | 4,950               | 12/27/89             |
| 89            | 13H006   | SUTTER'S MILL                           | SHINGLETOWN / SHASTA   | 1              | HYDRO                 | 150                 | 6/25/85              |
| 90            | 15H069   | SWISS AMERICA                           | AUBURN / PLACER        | 3              | HYDRO                 | 100                 | 12/23/85             |
| 91            | 13H004   | T & G HYDRO                             | WHITMORE / SHASTA      | 4              | HYDRO                 | 340                 | 10/15/84             |
| 92            | 13H040   | TKO POWER (SOUTH BEAR CREEK)            | SHINGLETOWN / SHASTA   | 4              | HYDRO                 | 3,000               | 1/15/86              |
| 93            | 19H055   | TOM BENNINGHOVEN                        | GARBERVILLE / HUMBOLDT | 3              | HYDRO                 | 25                  | 11/22/82             |
| 94            | 16H003   | TRI-DAM AUTHORITY                       | SONORA / TUOLUMNE      | 4              | HYDRO                 | 16,200              | 5/19/86              |
| 95            | 15H058   | TUNNEL HILL                             | GEORGETOWN / EL DORADO | 2              | HYDRO                 | 600                 | 12/30/83             |
| 96            | 25H038   | UNITED HYDRO, INC. #1 (WOLFSEN BYPASS)  | LOS BANOS / MERCED     | 4              | HYDRO                 | 1,000               | 2/1/86               |
| 97            | 25H039   | UNITED HYDRO, INC. #2 (SAN LUIS BYPASS) | LOS BANOS / MERCED     | 4              | HYDRO                 | 675                 | 2/1/86               |
| 98            | 19H002   | WEA BAKER CREEK                         | BRIDGEVILLE / HUMBOLDT | 4              | HYDRO                 | 1,500               | 12/10/87             |
| 99            | 13H130   | WEBB MORROW                             | MILLVILLE / SHASTA     | 3              | HYDRO                 | 100                 | 10/14/83             |
| 100           | 04H002   | YOLO COUNTY FLOOD & WCD                 | CLEAR LAKE / LAKE      | 1              | HYDRO                 | 2,500               | 9/7/85               |
| 101           | 12H010   | YUBA COUNTY WATER                       | CHALLENGE / YUBA       | 4              | HYDRO                 | 2,000               | 1/29/90              |
| 102           | 12H006   | YUBA COUNTY WATER AGENCY                | MARYSVILLE / YUBA      | 4              | HYDRO                 | 150                 | 9/30/86              |
| <b>Total:</b> |          |   |                        |                |                       | <b>221,982</b>      |                      |

\* Contract Type: 1/ As-Delivered Capacity & Energy, 2/ Firm Capacity & Energy, 3/ Energy Purchase, 4/ Long-term Energy Capacity

**Summary of Signed Contracts**  
**Small Power Projects - Operational and Currently Delivering**  
**July 1997**  
**SOLAR**

| No.           | Log. No. | Project                        | City/County             | Contract Type* | Primary Energy Source | Operating Size (kW) | Operating Start Date |
|---------------|----------|--------------------------------|-------------------------|----------------|-----------------------|---------------------|----------------------|
| 1             | 06S040   | CITY OF DIXON                  | DIXON / SOLANO          | 3              | PHOTOVOLTAIC          | 20                  | 1/4/85               |
| 2             | 01S252   | JAMES C. ROSS                  | OAKLAND / ALAMEDA       | 3              | PHOTOVOLTAIC          | 3                   | 9/1/93               |
| 3             | 04S147   | JOHN & NANCY SCHAEFFER         | MENDOCINO / MENDOCINO   | 3              | PHOTOVOLTAIC          | 2                   | 6/23/95              |
| 4             | 08S105   | JONATHAN & SUSAN WITTEWER      | SANTA CRUZ / SANTA CRUZ | 3              | PHOTOVOLTAIC          | 4                   | 12/1/93              |
| 5             | 04S152   | REAL GOODS TRADING CORP        | HOPLAND / -             | 3              | PHOTOVOLTAIC          | 13                  | 6/10/96              |
| 6             | 04S142   | ROBIN WILLIAMS SOLAR POWER GEN | NAPA / NAPA             | 3              | PHOTOVOLTAIC          | 7                   | 4/16/93              |
| <b>Total:</b> |          |                                |                         |                |                       | <b>49</b>           |                      |

\* Contract Type: 1/ As-Delivered Capacity & Energy, 2/ Firm Capacity & Energy, 3/ Energy Purchase, 4/ Long-term Energy Capacity

**Summary of Signed Contracts**  
**Small Power Projects - Operational and Currently Delivering**  
**July 1997**  
**WASTE TO ENERGY**

| No.           | Log. No. | Project                     | City/County                | Contract Type* | Primary Energy Source | Operating Size (kW) | Operating Start Date |
|---------------|----------|-----------------------------|----------------------------|----------------|-----------------------|---------------------|----------------------|
| 1             | 18P123   | CONFIDENTIAL                |                            | 3              | WASTE GAS             | 500                 | 12/28/88             |
| 2             | 25C062   | DOLE ENTERPRISES            | KERN / KERN                | 3              | WASTE GAS             | 50                  | 2/5/91               |
| 3             | 01P049   | GWF POWER SYSTEMS INC. #1   | PITTSBURG / CONTRA COSTA   | 4              | PETROLEUM COKE        | 17,740              | 12/7/90              |
| 4             | 01P086   | GWF POWER SYSTEMS INC. #2   | PITTSBURG / CONTRA COSTA   | 4              | PETROLEUM COKE        | 17,740              | 12/22/89             |
| 5             | 01P091   | GWF POWER SYSTEMS INC. #3   | ANTIOCH / CONTRA COSTA     | 4              | PETROLEUM COKE        | 17,740              | 8/27/90              |
| 6             | 01P051   | GWF POWER SYSTEMS INC. #4   | ANTIOCH / CONTRA COSTA     | 4              | PETROLEUM COKE        | 17,740              | 10/10/89             |
| 7             | 01P087   | GWF POWER SYSTEMS INC. #5   | PITTSBURG / CONTRA COSTA   | 4              | PETROLEUM COKE        | 17,740              | 3/17/90              |
| 8             | 25C136   | HANFORD L.P.                | HANFORD / KINGS            | 4              | PETROLEUM COKE        | 23,000              | 9/26/90              |
| 9             | 16P053   | MODESTO ENERGY              | WESTLY / STANISLAUS        | 4              | TIRES                 | 14,000              | 9/11/87              |
| 10            | 16P052   | STANISLAUS WASTE ENERGY CO. | CROWS LANDING / STANISLAUS | 4              | GARBAGE               | 18,000              | 9/6/88               |
| <b>Total:</b> |          |                             |                            |                |                       | <b>144,250</b>      |                      |

\* Contract Type: 1/ As-Delivered Capacity & Energy, 2/ Firm Capacity & Energy, 3/ Energy Purchase, 4/ Long-term Energy Capacity



## Summary of Signed Contracts

### Small Power Projects - Operational and Currently Delivering

July 1997

### WIND

| No. | Log. No. | Project                        | City/County                  | Contract Type* | Primary Energy Source | Operating Size (kW) | Operating Start Date |
|-----|----------|--------------------------------|------------------------------|----------------|-----------------------|---------------------|----------------------|
| 1   | 16W009   | ALTAMONT MIDWAY LTD.           | ALTAMONT PASS / SAN JOAQUIN  | 4              | WIND                  | 40,210              | 4/16/85              |
| 2   | 16W020   | ARCADIAN RENEWABLE POWER CORP  | ALTAMONT PASS / SAN JOAQUIN  | 1              | WIND                  | 30,000              | 3/15/83              |
| 3   | 04W063   | BERTHA NOLL                    | WOODACRE / MARIN             | 3              | WIND                  | 10                  | 12/4/81              |
| 4   | 06W076   | DAVID W. MCAVENIA              | VACAVILLE / SOLANO           | 3              | WIND                  | 10                  | 10/14/82             |
| 5   | 01W119   | DONALD R. CHENOWETH            | LIVERMORE / ALAMEDA          | 3              | WIND                  | 10                  | 8/2/82               |
| 6   | 01W194   | E & M PEARSON                  | PLEASANTON / ALAMEDA         | 3              | WIND                  | 10                  | 12/13/85             |
| 7   | 06W079   | EDWARD ANDERSON JR.            | BIRDS LANDING / SOLANO       | 3              | WIND                  | 10                  | 7/18/82              |
| 8   | 16W014   | FLOWIND 3-4                    | LIVERMORE / ALAMEDA          | 4              | WIND                  | 17,020              | 4/11/85              |
| 9   | 16W015   | FLOWIND 4-4                    | ALTAMONT PASS / ALAMEDA      | 4              | WIND                  | 18,960              | 1/1/87               |
| 10  | 16W016   | FLOWIND 5-4                    | ALTAMONT PASS / ALAMEDA      | 4              | WIND                  | 4,750               | 4/11/85              |
| 11  | 16W017   | FLOWIND 6-4                    | ALTAMONT PASS / ALAMEDA      | 4              | WIND                  | 18,990              | 1/1/87               |
| 12  | 01W009   | FLOWIND PARTNERS 1             | ALTAMONT PASS / SAN JOAQUIN  | 4              | WIND                  | 8,480               | 1/9/84               |
| 13  | 16W010   | FLOWIND PARTNERS 2             | ALTAMONT PASS / ALAMEDA      | 4              | WIND                  | 2,700               | 4/11/85              |
| 14  | 01W094   | HOWDEN WIND PARKS              | ALTAMONT PASS / CONTRA COSTA | 4              | WIND                  | 28,000              | 1/4/86               |
| 15  | 25W105   | INTERNATIONAL TURBINE RESEARCH | PACHECO PASS / MERCED        | 4              | WIND                  | 13,000              | 6/14/88              |
| 16  | 06W083   | JOE T. HERNANDEZ               | DAVIS / YOLO                 | 3              | WIND                  | 2                   | 8/3/82               |
| 17  | 16W011   | KENETECH WINDPOWER INC.        | TRACY / SAN JOAQUIN          | 4              | WIND                  | 23,800              | 1/5/87               |
| 18  | 06W148   | KENETECH WINDPOWER INC.        | MONTEZUMA HILLS / SOLANO     | 4              | WIND                  | 10,000              | 1/1/90               |
| 19  | 06W146D  | KENETECH WINDPOWER INC.        | TRACY / SAN JOAQUIN          | 4              | WIND                  | 1,500               | 1/1/91               |
| 20  | 06W146A  | KENETECH WINDPOWER INC.        | TRACY / SAN JOAQUIN          | 4              | WIND                  | 20,000              | 4/1/88               |
| 21  | 06W146B  | KENETECH WINDPOWER INC.        | BENECIA / SOLANO             | 4              | WIND                  | 18,500              | 1/1/90               |
| 22  | 01W146D  | KENETECH WINDPOWER INC.        | TRACY / SAN JOAQUIN          | 4              | WIND                  | 15,000              | 1/1/91               |
| 23  | 06W146C  | KENETECH WINDPOWER INC.        | BENECIA / SOLANO             | 4              | WIND                  | 30,000              | 1/1/91               |
| 24  | 01W035   | KENETECH WINDPOWER INC.        | LIVERMORE / ALAMEDA          | 4              | WIND                  | 70,000              | 4/1/87               |
| 25  | 01W018   | KENETECH WINDPOWER INC.        | TRACY / SAN JOAQUIN          | 4              | WIND                  | 5,900               | 3/2/88               |
| 26  | 01W146B  | KENETECH WINDPOWER INC.        | TRACY / SAN JOAQUIN          | 4              | WIND                  | 30,000              | 4/1/88               |
| 27  | 01W146C  | KENETECH WINDPOWER INC.        | TRACY / SAN JOAQUIN          | 4              | WIND                  | 11,900              | 1/2/90               |
| 28  | 01W144   | KENETECH WINDPOWER INC.        | TRACY / SAN JOAQUIN          | 4              | WIND                  | 30,000              | 4/1/88               |
| 29  | 01W146A  | KENETECH WINDPOWER INC.        | TRACY / SAN JOAQUIN          | 4              | WIND                  | 43,100              | 1/1/88               |

\* Contract Type: 1/ As-Delivered Capacity & Energy, 2/ Firm Capacity & Energy, 3/ Energy Purchase, 4/ Long-term Energy Capacity

## Summary of Signed Contracts

### Small Power Projects - Operational and Currently Delivering

July 1997

WIND

| No.           | Log. No. | Project                              | City/County                 | Contract Type* | Primary Energy Source | Operating Size (kW) | Operating Start Date |
|---------------|----------|--------------------------------------|-----------------------------|----------------|-----------------------|---------------------|----------------------|
| 30            | 01W004   | KENETECH WINDPOWER, INC              | LIVERMORE / ALAMEDA         | 4              | WIND                  | 110,000             | 1/1/86               |
| 31            | 01W129   | L.P. REINHARD                        | HAYWARD / ALAMEDA           | 3              | WIND                  | 10                  | 6/18/81              |
| 32            | 01W132   | MELBURN SWAFFORD                     | OAKLEY / CONTRA COSTA       | 3              | WIND                  | 4                   | 10/23/81             |
| 33            | 04W072   | MICHAEL OR KAREN RIPPEY              | VALLEJO / NAPA              | 3              | WIND                  | 4                   | 8/8/84               |
| 34            | 06W090   | MICHAEL W. STEPHENS                  | DIXON / SOLANO              | 3              | WIND                  | 10                  | 11/1/82              |
| 35            | 01W095   | NORTHWIND ENERGY                     | ALTAMONT / CONTRA COSTA     | 4              | WIND                  | 15,500              | 1/4/86               |
| 36            | 16W028   | PATTERSON PASS WIND FARM LLC         | ALTAMONT PASS / SAN JOAQUIN | 4              | WIND                  | 21,840              | 4/2/85               |
| 37            | 01W134   | ROBERT AND JOYCE VIEUX               | LIVERMORE / ALAMEDA         | 3              | WIND                  | 10                  | 7/8/81               |
| 38            | 01W006C  | SEA WEST ENERGY (ALTECH - 01W011)    | ALTAMONT PASS / SAN JOAQUIN | 4              | WIND                  | 5,760               | 1/22/83              |
| 39            | 01W006B  | SEA WEST ENERGY (CWES - 01W007)      | ALTAMONT PASS / SAN JOAQUIN | 4              | WIND                  | 1,500               | 1/22/83              |
| 40            | 01W006A  | SEA WEST ENERGY (SEAWEST - 01W006)   | ALTAMONT PASS / SAN JOAQUIN | 4              | WIND                  | 60                  | 1/22/83              |
| 41            | 01W006E  | SEA WEST ENERGY (TAXVEST - 01W015)   | ALTAMONT PASS / SAN JOAQUIN | 4              | WIND                  | 10,680              | 12/31/84             |
| 42            | 01W006D  | SEA WEST ENERGY (VIKING - 01W014)    | TRACY / SAN JOAQUIN         | 4              | WIND                  | 1,560               | 1/22/83              |
| 43            | 01W006F  | SEA WEST ENERGY (WESTERN - 01W012)   | ALTAMONT PASS / ALAMEDA     | 4              | WIND                  | 900                 | 1/22/83              |
| 44            | 01W001   | WINDDRIVEN LIMITED LIABILITY COMPANY | ALTAMONT PASS / SAN JOAQUIN | 4              | WIND                  | 37,550              | 12/24/83             |
| 45            | 01W017   | ZOND WINDSYSTEMS INC.                | ALTAMONT PASS / ALAMEDA     | 4              | WIND                  | 20,000              | 12/30/85             |
| <b>Total:</b> |          |                                      |                             |                |                       | <b>717,250</b>      |                      |

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