

California Renewables Portfolio Standard Review

*Progress towards reaching a 20% renewable portfolio
and the challenges that lie ahead*

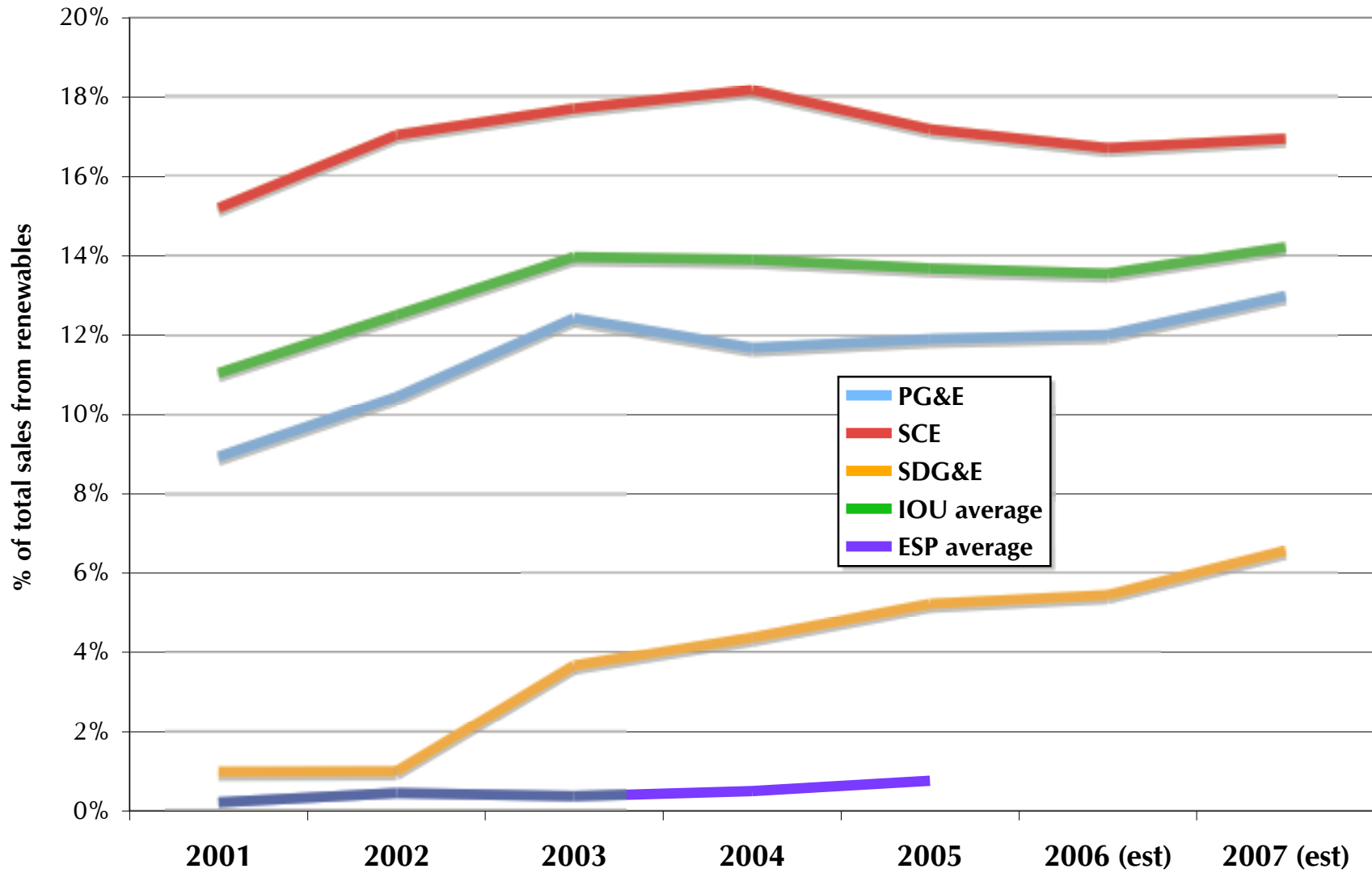
Senate Energy, Utilities and Communications Committee
February 6, 2007



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California Retail Seller Renewable Procurement

Delivered renewable electricity as a percentage of total retail sales



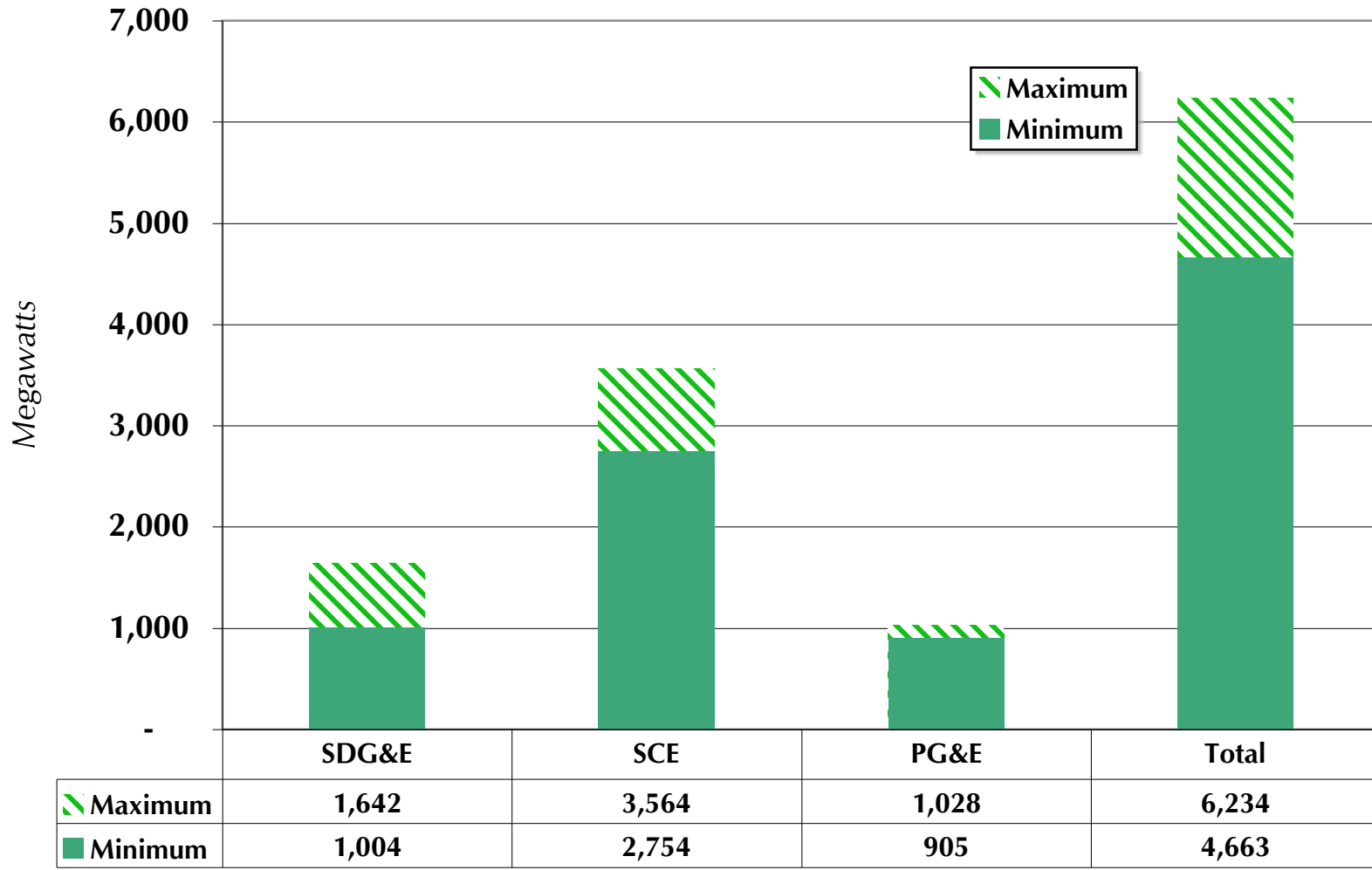
Electric Service Provider sales and renewable energy purchases since 2001

Total retail sales and RPS-eligible renewables purchases (in MWh)

| | 2001 | 2001 | 2001 | 2002 | 2002 | 2002 | 2003 | 2003 | 2003 | 2004 | 2004 | 2004 | 2005 | 2005 | 2005 |
|----------------|------------------|--------------|--------------|-------------------|---------------|--------------|-------------------|---------------|--------------|-------------------|----------------|--------------|-------------------|----------------|--------------|
| | Retail sales | RPS eligible | % | Retail sales | RPS eligible | % | Retail sales | RPS eligible | % | Retail sales | RPS eligible | % | Retail sales | RPS eligible | % |
| AUN | | 0 | 0.0% | | 0 | 0.0% | | 0 | 0.0% | | 0 | 0.0% | 10,141 | 0 | 0.0% |
| 3 Phases | 6,264 | 6,264 | 100% | 56,530 | 56,530 | 100% | 73,900 | 73,900 | 100% | 93,960 | 89,410 | 95.2% | 113,041 | 88,000 | 77.8% |
| City of Corona | | 0 | 0.0% | | 0 | 0.0% | | 0 | 0.0% | | 0 | 0.0% | 120,174 | 0 | 0.0% |
| Coral | 0 | 0 | 0.0% | 153,365 | 0 | 0.0% | 184,147 | 0 | 0.0% | 249,594 | 0 | 0.0% | 232,309 | 0 | 0.0% |
| Commerce | 524,600 | 0 | 0.0% | 991,524 | 0 | 0.0% | 1,193,679 | 0 | 0.0% | 852,736 | 0 | 0.0% | 759,407 | 0 | 0.0% |
| Calpine | 0 | 0 | 0.0% | 0 | 0 | 0.0% | 10,000 | 0 | 0.0% | 600,000 | 0 | 0.0% | 1,026,888 | 0 | 0.0% |
| Pilot | 0 | 0 | 0.0% | 0 | 0 | 0.0% | 0 | 0 | 0.0% | 0 | 0 | 0.0% | 1,058,030 | 0 | 0.0% |
| APS | 327,987 | 0 | 0.0% | 2,044,563 | 0 | 0.0% | 2,734,326 | 0 | 0.0% | 2,860,195 | 0 | 0.0% | 2,752,734 | 0 | 0.0% |
| Strategic | 1,063,936 | 0 | 0.0% | 3,246,037 | 0 | 0.0% | 5,505,446 | 0 | 0.0% | 5,339,279 | 0 | 0.0% | 4,872,127 | 0 | 0.0% |
| Sempra | 393,156 | 0 | 0.0% | 3,743,974 | 0 | 0.0% | 7,286,368 | 2,352 | 0.0% | 7,156,024 | 18,003 | 0.3% | 5,838,461 | 72,239 | 1.2% |
| CNE | 762,172 | 0 | 0.0% | 2,475,842 | 0 | 0.0% | 4,120,000 | 0 | 0.0% | 5,267,000 | 4,400 | 0.1% | 5,900,991 | 10,056 | 0.2% |
| Total | 3,078,115 | 6,264 | 0.20% | 12,711,835 | 56,530 | 0.44% | 21,107,866 | 76,252 | 0.36% | 22,418,788 | 111,813 | 0.50% | 22,684,303 | 170,295 | 0.75% |
| w/o 3 Phases | 3,071,851 | 0 | 0.00% | 12,655,305 | 0 | 0.00% | 21,033,966 | 2,352 | 0.01% | 22,324,828 | 22,403 | 0.10% | 22,571,262 | 82,295 | 0.36% |

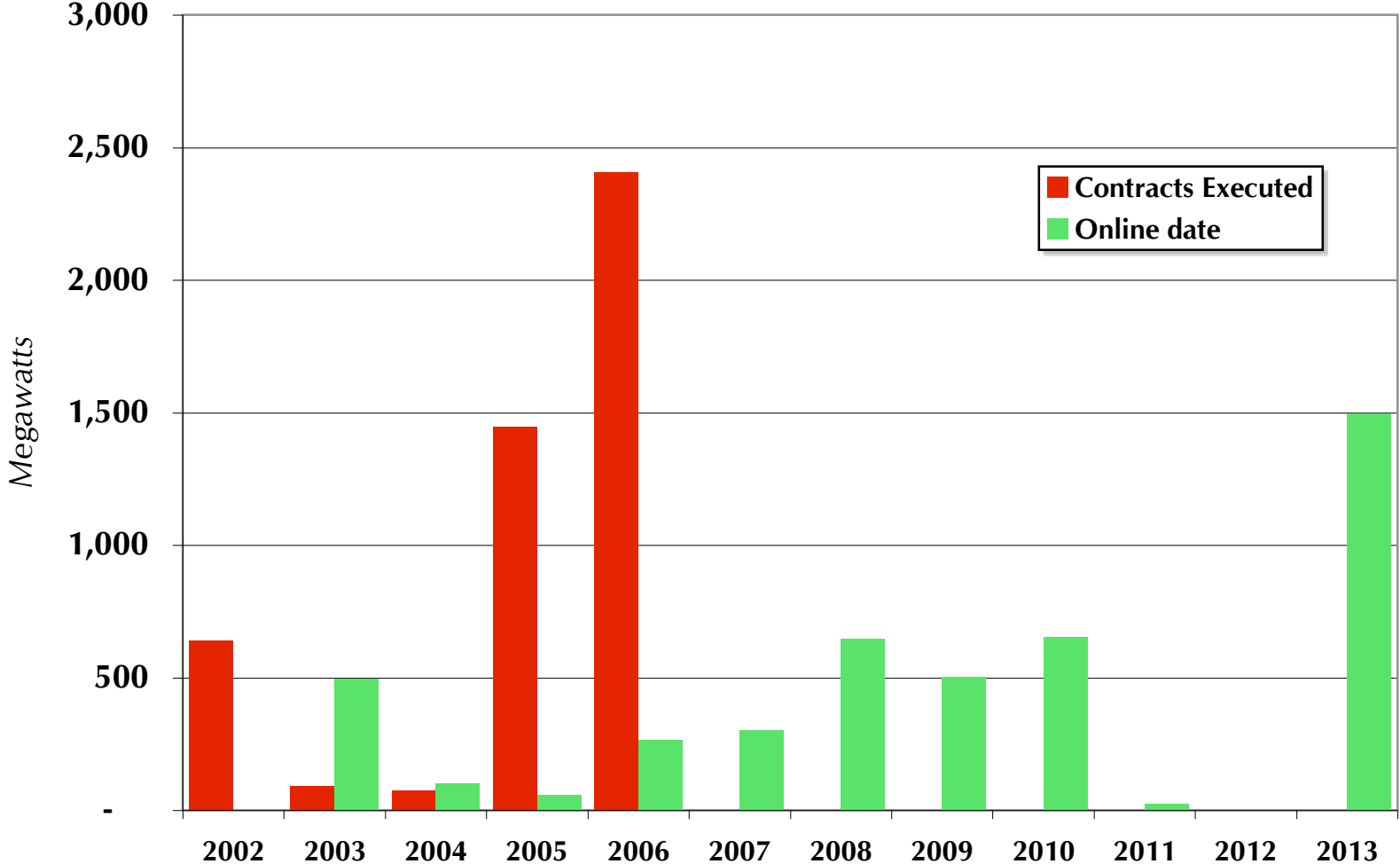
Data on retail sales and renewable procurement from December 2006 compliance reports submitted in R.06-02-012 and January 2006 preliminary reports submitted in R.04-04-026

California Investor Owned Utility Renewable Energy Commitments 2002-2007



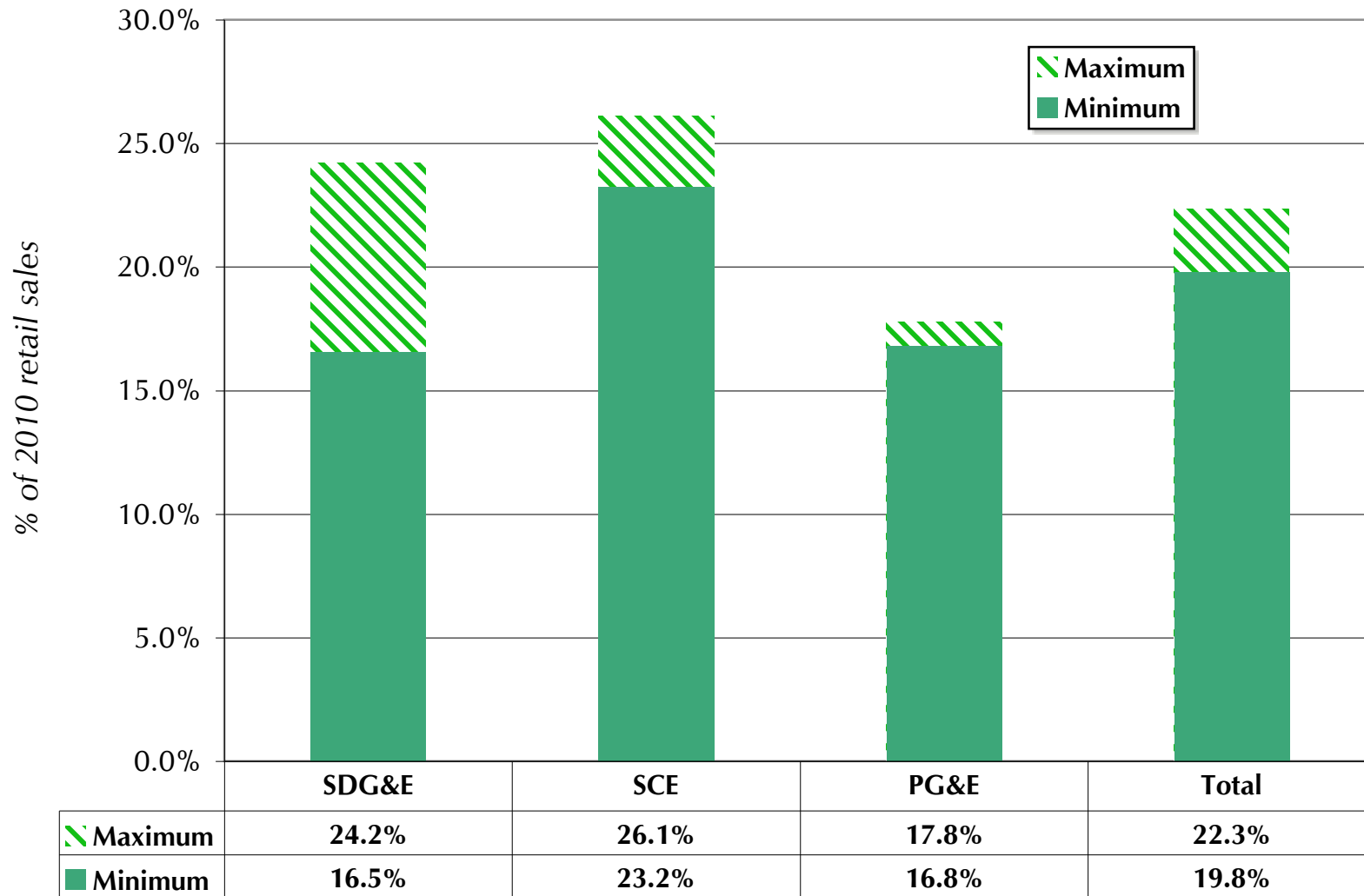
California Investor Owned Utility Renewable Energy Contracts

Initial Execution vs. Expected Online Dates

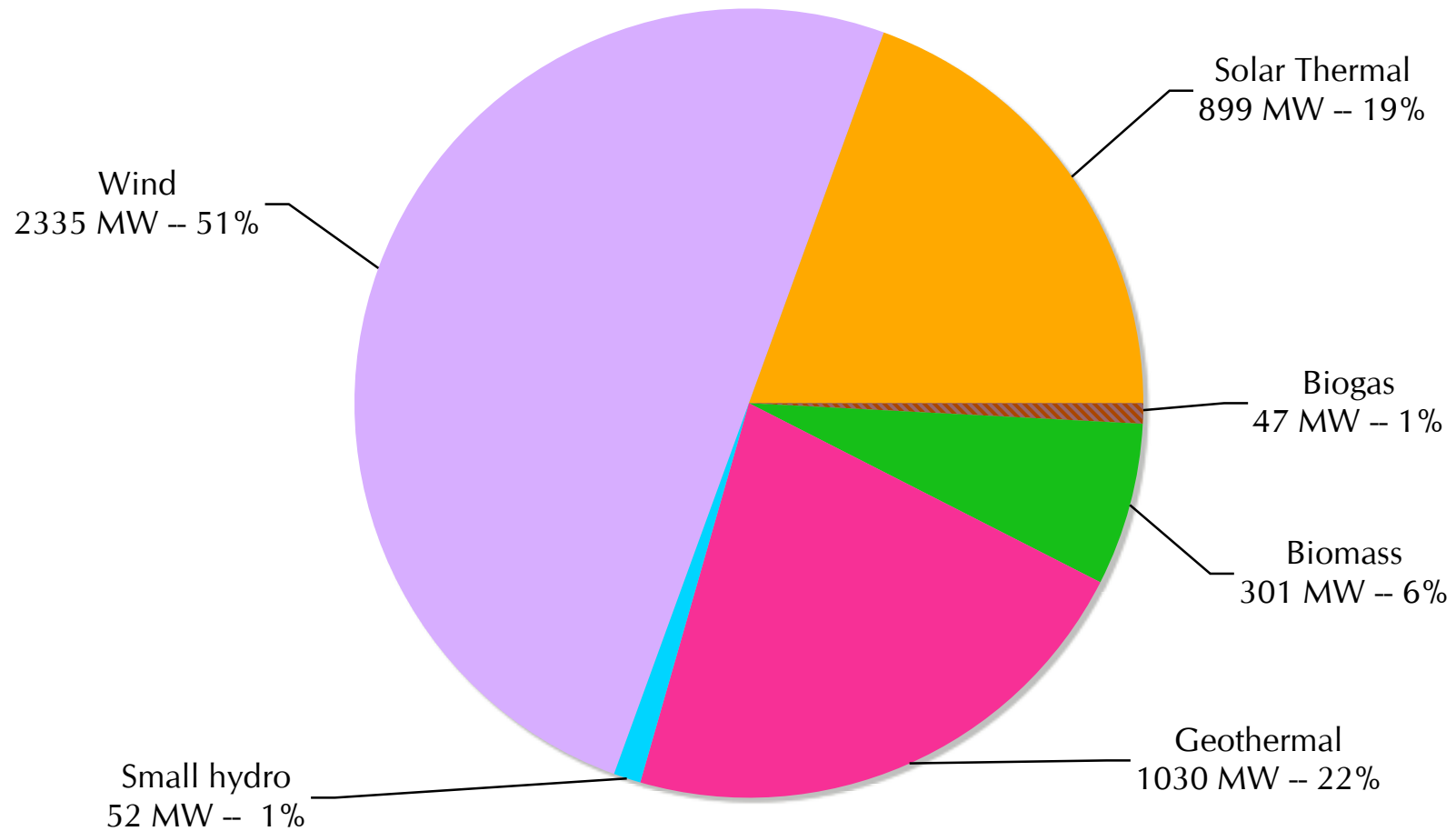


California Utility Renewable Energy Contracts

Expected deliveries if all currently contracted projects are successful

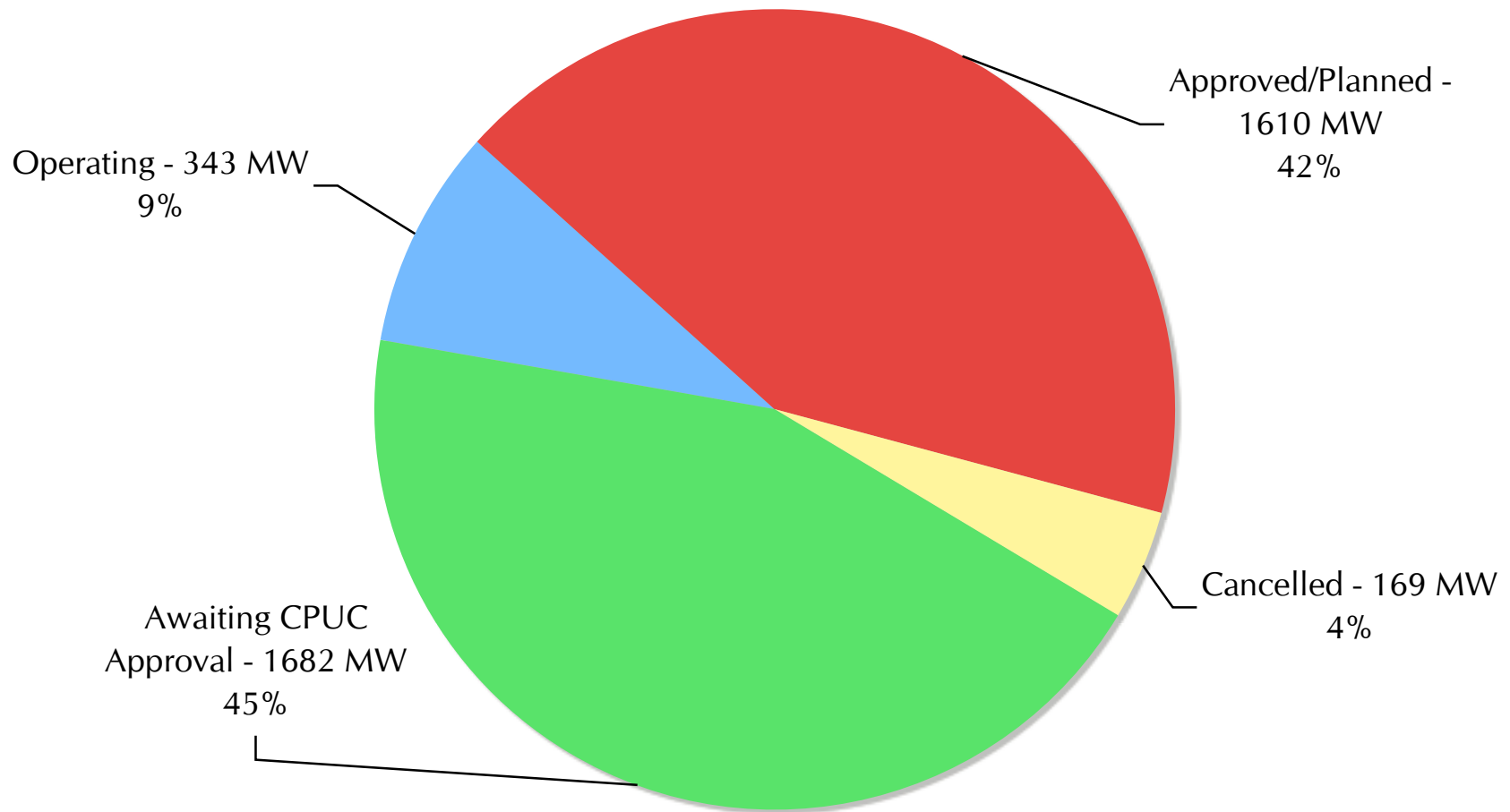


Total contracted renewable MWs by resource type



Status of renewable energy contracts with new resources

Executed 2002-2006 – includes repowers, restarts and additions to existing facilities



Conclusions

➤ **Compliance by retail sellers**

- ⇒ IOUs have executed substantial renewable contracts since 2002, continue to solicit new resources on an ongoing basis, and are making progress towards the 20% target
- ⇒ ESPs have engaged in little renewable energy procurement to date
- ⇒ No centralized data on municipal utility compliance post-2004
- ⇒ Penalties are critical to motivate retail sellers

➤ **Project delays and “contract failure”**

- ⇒ Reasons for project delays – need for transmission expansion, siting/permitting issues, equipment supply constraints, rising costs, federal production tax credit expirations, strong national demand for renewables
- ⇒ Risk of contract failure requires contingency planning and overprocurement

➤ **Supplemental Energy Payment award system is broken and prevents otherwise viable projects from executing contracts**

Key policy issues

Short-term issues which should be addressed in 2007

- ⇒ Action by the legislative to restructure Supplemental Energy Payments to enable “one stop shopping” and recognize project financing requirements
- ⇒ Extend federal production tax credit for at least five additional years
- ⇒ Move forward with Tehachapi transmission
- ⇒ Develop mechanisms to ensure meaningful ESP procurement
- ⇒ Break the stalemate on repowering older wind projects
- ⇒ Consider whether tradable Renewable Energy Credits provide a hedge against fossil fuel prices, lower overall compliance costs, enable new project financing, and support California environmental goals

Long-term issues to be addressed prior to 2010

- ⇒ Find the proper balance between regulatory oversight and flexibility
- ⇒ Determine relationship between renewable energy and carbon policy
- ⇒ Consider desirability of raising the RPS target to 33% by 2020
- ⇒ Refine strategies for developing emerging renewable technologies

Additional materials

California Investor Owned Utility renewable energy contracts executed since 2002

Data compiled by Matt Freedman, The Utility Reform Network (current as of February 5, 2007)

| IOU | Project | Name of developer | Technology | Min. size (in MW) | Max. size (in MW) | GWh/year (min) | GWh/year (max) | Existing/new | Contract duration (years) | Method of selection | Execution date | Initial online date | Status | Delivery Zone | Location of project | SEPs Requested |
|-------|---------------------------------------|-------------------------------------|---------------|-------------------|-------------------|----------------|----------------|--------------|---------------------------|---------------------|----------------|---------------------|------------------------|---------------|--------------------------------|----------------|
| PG&E | Geysers | Calpine | Geothermal | 110 | 110 | 722 | 722 | Existing | 5 | Solicitation | Nov-02 | Jan-03 | Operating | NP-15 | Fulton | No |
| PG&E | Wheelabrator | Wheelabrator | Biomass | 3 | 3 | 25 | 25 | New | 5 | Solicitation | Nov-02 | Jan-03 | Operating | NP-15 | Cottonwood | No |
| PG&E | Madera Power, LLC | Madera Power | Biomass | 24 | 24 | 174 | 174 | Restart | 5.75 | Bilateral | Sep-03 | Oct-03 | Operating | NP-15 | Los Banos Switching Center | No |
| PG&E | Community Renewable Energy Services | Yankee Energy | Biomass | 12 | 12 | 87 | 87 | Restart | 5.75 | Bilateral | Sep-03 | Oct-03 | Operating | NP-15 | Fresno Operating Center | No |
| PG&E | Sierra Power Corporation | Sierra Power Corporation | Biomass | 7 | 7 | 51 | 51 | Restart | 5.75 | Bilateral | Sep-03 | Oct-03 | Operating | NP-15 | Terra Bella (So. Cal Edison) | No |
| PG&E | Big Valley | Big Valley Power Co. | Biomass | 7.5 | 7.5 | 41 | 41 | Restart | 8.32 | Bilateral | Nov-04 | Jun-05 | Operating | NP-15 | Round Mountain | No |
| PG&E | Diablo Winds | FPL Energy Co. | Wind | 18 | 18 | 65 | 65 | Repower | 11.5 | Bilateral | Oct-04 | Dec-04 | Operating | NP-15 | Tesla | No |
| PG&E | FPL Energy Montezuma Winds LLC | FPL Energy Co. | Wind | 32.4 | 32.4 | 102 | 102 | New | 20 | Solicitation | Apr-05 | Apr-08 | Planned | NP-15 | Vaca Dixon | No |
| PG&E | Buena Vista Energy LLC | Buena Vista / Babcock & Brown | Wind | 38 | 38 | 108 | 108 | Repower | 15 | Solicitation | Apr-05 | Dec-06 | Operating | NP-15 | Tesla | No |
| PG&E | Pacific Renewable Energy Generation | Pacific Renewable Energy Generation | Wind | 82.5 | 82.5 | 280 | 280 | New | 20 | Solicitation | Apr-05 | Oct-08 | Planned | NP-15 | Midway | No |
| PG&E | Shiloh 1 Wind Project LLC | PPM | Wind | 75 | 75 | 225 | 225 | New | 15 | Solicitation | Jun-05 | Apr-06 | Operating | NP-15 | Vaca Dixon | No |
| PG&E | Chowchilla | Global Common LLC | Biomass | 9 | 9 | 72 | 72 | Restart | 15 | Bilateral | Sep-05 | Dec-07 | Planned | NP-15 | Panoche | No |
| PG&E | El Nido | Global Common LLC | Biomass | 9 | 9 | 72 | 72 | Restart | 15 | Bilateral | Sep-05 | Dec-07 | Planned | NP-15 | Panoche | No |
| PG&E | Military Pass Rd - Newberry Volcano | Vulcan Power Company | Geothermal | 120 | 120 | 840 | 840 | New | 20 | Solicitation | Mar-06 | Oct-08 | Planned | NP-15 | Round Mountain / Cottonwood | Yes |
| PG&E | Liberty Biofuels | McCarthy Farms | Biomass | 5 | 10 | 35 | 70 | New | 15 | Solicitation | May-06 | Dec-09 | Planned | NP-15 | Midway | No |
| PG&E | Bottle Rock | USRG | Geothermal | 17 | 55 | 119 | 385 | New | 10 | Solicitation | May-06 | Jul-07 | Planned | NP-15 | Fulton | No |
| PG&E | HFI Silvan | Vulcan Power Company | Biomass | 20 | 40 | 71 | 142 | New | 10 | Solicitation | May-06 | Jul-08 | Planned | NP-15 | Oregon/Round Mountain | No |
| PG&E | Newberry Volcano | Northwest Geothermal | Geothermal | 60 | 120 | 420 | 840 | New | 20 | Solicitation | Jul-06 | Jan-10 | Planned | NP-15 | Oregon | No |
| PG&E | Truckhaven I | IAE | Geothermal | 49 | 49 | 366 | 366 | New | 20 | Solicitation | Jul-06 | Jul-10 | Planned | NP-15 | Imperial Valley/Salton Sea | No |
| PG&E | Palco | | Biomass | 7 | 7 | 36 | 36 | Existing | | Bilateral | | | Operating | NP-15 | | No |
| PG&E | Geysers | Calpine | Geothermal | 200 | 200 | 1644 | 1644 | Existing | 6 | Bilateral | Oct-06 | Jan-07 | Operating | NP-15 | Fulton | No |
| SCE | North American Trading and Marketing | NATM | Biomass | 45 | 100 | 350 | 778 | New | 10 | Solicitation | Dec-02 | | Cancelled | SP-15 | Bakersfield | No |
| SCE | El Sobranite | WM Energy Solutions | Biogas | 2.5 | 2.5 | 20 | 20 | New | 10 | Solicitation | Dec-02 | Apr-04 | Operating | SP-15 | Corona | No |
| SCE | Simi Valley | WM Energy Solutions | Biogas | 2.5 | 2.5 | 20 | 20 | New | 10 | Solicitation | Dec-02 | Apr-04 | Operating | SP-15 | Simi Valley | No |
| SCE | Geysers | Calpine | Geothermal | 200 | 200 | 1779 | 1779 | Existing | 10 | Solicitation | Dec-02 | May-03 | Operating | NP-15 | Lake County | No |
| SCE | Metropolitan Water District | MWD | Small hydro | 47 | 47 | 173 | 173 | Existing | 5 | Solicitation | Dec-02 | Nov-03 | Operating | SP-15 | | No |
| SCE | Liberty Biofuels Power | McCarthy Farms | Biomass | 5 | 15 | 37 | 110 | New | 15 | Solicitation | Mar-05 | Dec-07 | Planned | SP-15 | Imperial Valley | No |
| SCE | Sierra Biomass | Silvan Power Company | Biomass | 7.5 | 22.5 | 56 | 168 | New | 20 | Solicitation | Mar-05 | Dec-07 | Planned | SP-15 | Western Sierra | No |
| SCE | Green Borders Geothermal | Vulcan Power Company | Geothermal | 30 | 120 | 231 | 925 | New | 20 | Solicitation | Mar-05 | Mar-08 | Planned | SP-15 | Western Nevada | No |
| SCE | SES Solar One | Stirling Energy Systems | Solar thermal | 500 | 850 | 1047 | 1780 | New | 20 | Solicitation | Aug-05 | Jan-09 | Planned | SP-15 | High Desert | No |
| SCE | Mountain View Power Partners | SeaWest Windpower | Wind | 37 | 50 | 118 | 159 | New | 20 | Solicitation | Mar-05 | Dec-06 | Planned | SP-15 | San Geronio | No |
| SCE | Dillon Wind | PPM | Wind | 45 | 45 | 132 | 132 | New | 20 | Solicitation | Aug-05 | Dec-07 | Planned | SP-15 | San Geronio | No |
| SCE | Coram Energy | Coram Energy Group | Wind | 12 | 100 | 47 | 394 | New | 20 | Solicitation | Mar-05 | Dec-06 | Planned | SP-15 | Tehachapi | No |
| SCE | Aero Energy | Western Wind | Wind | 50 | 120 | 154 | 370 | New | 20 | Solicitation | Mar-05 | Dec-06 | Planned | SP-15 | Tehachapi | No |
| SCE | Caithness 251 PPSA I | Caithness Energy | Wind | 15 | 18.265 | 36 | 44 | Repower | 20 | Solicitation | Nov-06 | Dec-11 | Awaiting CPUC Approval | SP-15 | Tehachapi | No |
| SCE | Caithness 251 PPSA II | Caithness Energy | Wind | 5.8 | 15.8 | 15 | 40 | Repower | 20 | Solicitation | Nov-06 | Dec-08 | Awaiting CPUC Approval | SP-15 | Tehachapi | No |
| SCE | Caithness Ridgetop PPSA I+II | Caithness Energy | Wind | 11.03 | 34.69 | 26 | 82 | Repower | 20 | Solicitation | Nov-06 | Dec-11 | Awaiting CPUC Approval | SP-15 | Mojave | No |
| SCE | Coso Clean Power | Caithness Energy | Geothermal | 204 | 234.6 | 1608 | 1849 | Existing | 20 | Solicitation | Nov-06 | Dec-10 | Awaiting CPUC Approval | SP-15 | Inyo County | No |
| SCE | MM Tajiguas Energy LLC | Algonquin Power Company | Biogas | 2.84 | 4.34 | 18.6 | 28.5 | Existing | 20 | Solicitation | Nov-06 | Jan-07 | Awaiting CPUC Approval | SP-15 | Goleta, CA | No |
| SCE | Imperial Valley Resource Recovery Co. | Primary Power | Biomass | 16.4 | 16.4 | 132 | 132 | Restart | 10 | Solicitation | Dec-06 | Jan-08 | Awaiting CPUC Approval | IV | Imperial | No |
| SCE | Mequite Lake | Chateau Power | Biomass | 15 | 15 | 105 | 105 | Restart | 15 | Solicitation | Dec-06 | Jan-08 | Awaiting CPUC Approval | SP-15 | Mesquite Lake | No |
| SCE | Tehachapi Holdings | Alta Windpower/Oak Creek | Wind | 1500 | 1550 | 4653 | 4808 | New | 20 | Solicitation | Dec-06 | Jan-13 | Awaiting CPUC Approval | SP-15 | Tehachapi | No |
| SDG&E | MM San Diego - Miramar | Minnesota Methane | Biogas | 3 | 3 | | | Existing | 10 | Solicitation | Oct-03 | Jul-03 | Operating | SP-15 | San Diego - Miramar | No |
| SDG&E | MM San Diego - North City | Minnesota Methane | Biogas | 1 | 1 | | | Existing | 10 | Solicitation | Oct-03 | Jul-03 | Operating | SP-15 | San Diego - North City | No |
| SDG&E | Syracuse Sycamore | Syracuse Power Company | Biogas | 3.1 | 3.1 | | | New | 15 | Solicitation | Oct-02 | - | Cancelled | SP-15 | San Diego - Chula Vista | No |
| SDG&E | Syracuse Otay | Syracuse Power Company | Biogas | 3.1 | 3.1 | | | New | 15 | Solicitation | Oct-02 | - | Cancelled | SP-15 | San Diego - Santee | No |
| SDG&E | MM Prima Deshecha Energy | Cambrian Energy Development | Biogas | 5 | 5 | | | Existing | 5 | Solicitation | Oct-02 | Jul-03 | Operating | SP-15 | San Juan, Capistrano | No |
| SDG&E | GRS - Coyote Canyon | Gas Recovery Systems, Inc. | Biogas | 5.4 | 7.5 | | | Existing | 10 | Solicitation | Oct-02 | Jan-03 | Operating | SP-15 | Orange County - Newport Coast | No |
| SDG&E | GRS - San Marcos | Gas Recovery Systems, Inc. | Biogas | 1 | 1 | | | New | 10 | Solicitation | Oct-02 | - | Cancelled | SP-15 | San Diego - San Marcos | No |
| SDG&E | GRS - Sycamore | Gas Recovery Systems, Inc. | Biogas | 2.5 | 2.5 | | | New | 10 | Solicitation | Oct-02 | Feb-04 | Operating | SP-15 | San Diego - Santee | No |
| SDG&E | San Diego Metro Waste Dept. | City of San Diego | Biogas | 4.8 | 4.8 | | | Existing | 5 | Solicitation | Dec-02 | Jan-03 | Operating | SP-15 | San Diego - Pt. Loma | No |
| SDG&E | Covanta Otay Three | Covanta Power Pacific | Biogas | 3.8 | 3.8 | 20 | 20 | New | 10 | Solicitation | Aug-05 | Dec-06 | Planned | SP-15 | San Diego - Chula Vista | No |
| SDG&E | MM Prima Deshecha Energy | Cambrian Energy Development | Biogas | 6 | 15 | 32 | 79 | Addition | 15 | Solicitation | Sep-05 | Oct-07 | Planned | SP-15 | San Juan, Capistrano | No |
| SDG&E | AES Delano | AES Delano | Biomass | 49 | 49 | | | Existing | 5 | Solicitation | Oct-02 | Jan-03 | Operating | SP-15 | Delano | No |
| SDG&E | Envirepel Energy | Envirepel Energy, Inc. | Biomass | 40 | 45 | 298 | 350 | New | 15 | Solicitation | Oct-03 | Jun-06 | Cancelled | SP-15 | San Diego - Fallbrook | No |
| SDG&E | Alta Mesa | Alta Mesa Power Partners | Wind | 40 | 47 | | | New | 10 | Solicitation | Oct-02 | - | Cancelled | SP-15 | Palm Springs | No |
| SDG&E | Energy Unlimited | Energy Unlimited, Inc. | Wind | 16.9 | 16.9 | | | New | 15 | Solicitation | Oct-02 | - | Cancelled | SP-15 | Palm Springs | No |
| SDG&E | Oasis Power Partners | enXco | Wind | 60 | 70 | | | New | 15 | Solicitation | Oct-02 | Dec-04 | Operating | SP-15 | Tehachapi | No |
| SDG&E | PPM Energy | PPM | Wind | 24.9 | 25 | | | New | 15 | Solicitation | Oct-02 | Dec-03 | Operating | SP-15 | Palm Springs | No |
| SDG&E | FPL Energy | WTE Acquisition | Wind | 16.5 | 19.9 | | | New | 15 | Solicitation | Oct-02 | Mar-04 | Operating | SP-15 | Palm Springs | No |
| SDG&E | Kumevaay Wind | Superior / Babcock & Brown | Wind | 49.5 | 51 | | | New | 20 | Bilateral | May-04 | Dec-05 | Operating | SP-15 | San Diego - Boulevard | No |
| SDG&E | Pacific Wind | enXco | Wind | 205.5 | 205.5 | 603 | 603 | New | 20 | Solicitation | Oct-05 | Dec-08 | Planned | SP-15 | Southern California | No |
| SDG&E | SDCWA - Rancho Penasquitos | San Diego County Water Authority | Small hydro | 4.5 | 4.5 | 10 | 10 | New | 10 | Bilateral | Nov-03 | Jan-07 | Planned | SP-15 | San Diego - Rancho Penasquitos | No |
| SDG&E | SES Solar Two | Stirling Energy Systems | Solar thermal | 300 | 900 | 628 | 1884 | New | 20 | Solicitation | Aug-05 | Jul-10 | Planned | IV | Imperial Valley | No |
| SDG&E | Esmeralda Truckhaven Geothermal | Esmeralda | Geothermal | 20 | 20 | 160 | 160 | New | 15 | Solicitation | May-06 | Dec-10 | Cancelled | IV | Imperial Valley | Yes |
| SDG&E | Esmeralda San Felipe | Esmeralda | Geothermal | 20 | 20 | 166 | 166 | New | 15 | Solicitation | Nov-06 | Dec-10 | Awaiting CPUC Approval | IV | Imperial Valley | No |
| SDG&E | Bethel Energy Units 1, 2 | Bethel Energy | Solar Thermal | 98.8 | 98.8 | 336 | 336 | New | 20 | Solicitation | Nov-06 | Jun-08 | Awaiting CPUC Approval | IV | Imperial Valley | No |
| SDG&E | Bull Moose | Bull Moose Energy | Biomass | 20 | 20 | 158 | 158 | New | 20 | Solicitation | Nov-06 | Dec-08 | Awaiting CPUC Approval | SP-15 | San Diego County | No |

= Confidential

= Estimated based on public data or comparable facilities

California IOU renewable energy procurement 2001-2007

| | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 (est) | 2007 (est) |
|------------------------------|--------|--------|--------|--------|--------|------------|------------|
| PG&E | | | | | | | |
| Renewable procurement (GWh) | 6,719 | 7,392 | 8,828 | 8,591 | 8,650 | 9,004 | 9,849 |
| <i>Biomass</i> | | | 2,938 | 3,108 | 3,004 | | |
| <i>Biogas</i> | | | 229 | 204 | 227 | | |
| <i>Geothermal</i> | | | 1,752 | 1,733 | 1,681 | | |
| <i>Small Hydro</i> | | | 2,962 | 2,466 | 2,864 | | |
| <i>Solar</i> | | | 0 | - | 4 | | |
| <i>Wind</i> | | | 947 | 1,079 | 874 | | |
| Total bundled sales (GWh) | 75,320 | 70,797 | 71,099 | 73,616 | 72,727 | 75,000 | 75,841 |
| % renewable | 8.92% | 10.44% | 12.42% | 11.67% | 11.89% | 12.01% | 12.99% |
| APT | | | 7,472 | 8,183 | 8,919 | 9,647 | 10,397 |
| Annual Surplus/(Deficit) | | | | 408 | (269) | (643) | (548) |
| Cumulative Surplus/(Deficit) | | | | 408 | 138 | (504) | (1,052) |

| | | | | | | | |
|------------------------------|--------|--------|--------|--------|--------|---------|---------|
| SCE | | | | | | | |
| Renewable procurement (GWh) | 11,364 | 11,658 | 12,496 | 13,247 | 12,930 | 13,013 | 13,539 |
| <i>Biomass</i> | | | 383 | 374 | 351 | 353 | |
| <i>Biogas</i> | | | 723 | 774 | 765 | 759 | |
| <i>Geothermal</i> | | | 7,080 | 7,882 | 7,823 | 7,652 | |
| <i>Small Hydro</i> | | | 997 | 976 | 867 | 947 | |
| <i>Solar</i> | | | 757 | 739 | 622 | 721 | |
| <i>Wind</i> | | | 2,557 | 2,502 | 2,495 | 2,582 | |
| Total bundled sales (GWh) | 74,807 | 68,462 | 70,617 | 72,963 | 75,302 | 77,947 | 79,953 |
| % renewable | 15.19% | 17.03% | 17.70% | 18.16% | 17.17% | 16.69% | 16.93% |
| APT | | | 12,112 | 12,818 | 13,548 | 14,301 | 15,080 |
| Annual Surplus/(Deficit) | | | | 429 | (618) | (1,288) | (1,541) |
| Cumulative Surplus/(Deficit) | | | | 429 | (189) | (1,477) | (3,018) |

| | | | | | | | |
|------------------------------|--------|--------|--------|--------|--------|--------|--------|
| SDG&E | | | | | | | |
| Renewable procurement (GWh) | 146 | 141 | 550 | 678 | 825 | 870 | 1,075 |
| <i>Biomass</i> | | | 342 | 337 | 299 | 247 | 343 |
| <i>Biogas</i> | | | 200 | 212 | 218 | 193 | 227 |
| <i>Geothermal</i> | | | - | - | - | - | - |
| <i>Small Hydro</i> | | | 7 | 13 | 12 | 6 | 21 |
| <i>Solar</i> | | | 0.1 | 0.1 | 0.0 | - | - |
| <i>Wind</i> | | | 1 | 115 | 296 | 424 | 484 |
| Total bundled sales (GWh) | 14,999 | 14,301 | 15,044 | 15,534 | 15,812 | 16,002 | 16,365 |
| % renewable | 0.97% | 0.99% | 3.66% | 4.36% | 5.22% | 5.44% | 6.57% |
| APT | | | 296 | 446 | 602 | 760 | 920 |
| Annual Surplus/(Deficit) | | | | 232 | 223 | 110 | 155 |
| Cumulative Surplus/(Deficit) | | | | 232 | 455 | 565 | 720 |

| | | | | | | | |
|------------------------------|---------|---------|---------|---------|---------|---------|---------|
| IOU average | | | | | | | |
| Renewable procurement (GWh) | 18,229 | 19,191 | 21,874 | 22,516 | 22,405 | 22,887 | 24,463 |
| Total bundled sales (GWh) | 165,126 | 153,560 | 156,760 | 162,113 | 163,841 | 168,949 | 172,158 |
| % renewable | 11.04% | 12.50% | 13.95% | 13.89% | 13.67% | 13.55% | 14.21% |
| APT | | | 19,880 | 21,448 | 23,069 | 24,707 | 26,397 |
| Annual Surplus/(Deficit) | | | | 1,068 | (664) | (1,820) | (1,934) |
| Cumulative Surplus/(Deficit) | | | | 1,068 | 404 | (1,416) | (3,351) |

| | | | | | | | |
|-----------------------------|-------|--------|--------|--------|--------|--|--|
| ESP average | | | | | | | |
| Renewable procurement (GWh) | 6.3 | 56.5 | 76.3 | 111.8 | 170.3 | | |
| Total sales (GWh) | 3,078 | 12,712 | 21,108 | 22,419 | 22,684 | | |
| % renewable | 0.20% | 0.44% | 0.36% | 0.50% | 0.75% | | |