

Appendix H: Annual Net Energy Metering Evaluation

Historical Overview

The Net Energy Metering (“NEM”) Law, codified as Hawaii Revised Statutes (“HRS”) §§ 101 to 111 in 2001, initially set a cap on the total power producing capacity of eligible customer-generators at 0.5% of the electric utility’s peak demand. KIUC’s peak system demand was 71.1 MW in 2001, which resulted in a NEM cap of approximately 355 kW in that year. Subsequent legislation in 2005 amended the law and gave the Commission the authority to increase the total rated generating capacity of eligible customers. In March 2008, by Decision & Order No. 24089 (“D&O”) in Docket No. 2006-0084, the Commission approved, among other things, a stipulation between the Parties and KIUC (“Stipulation”) to raise KIUC’s total rated generating capacity of eligible customers to 1.0%, which resulted in a cap of 776 kW, and to require that KIUC annually review its NEM limits and propose an increase, if appropriate. As part of the annual review process the NEM industry representative and KIUC have specific responsibilities for providing required industry-related information and performing an evaluation, respectively. This section of KIUC’s IRP addresses the need to annually review NEM information and make a determination as to whether NEM limits should be increased at this time.

NEM Limit Issues

Very shortly after the Commission approved the increase of KIUC’s percent of system peak cap, KIUC became fully subscribed at the 1% level. In addition to the 1% achievement, a significant number of customer-generator project applications were “waitlisted” due to the 1% cap achievement. As an alternative to NEM, these customer-generators were offered energy purchase by KIUC under the currently existing Schedule Q Modified Tariff. Given that the cap had been reached in just a few months after the its approval and the number of waitlisted projects, KIUC was very concerned that raising the limit again so soon after it had been imposed would simply result in immediate full subscription and thus leave KIUC faced with the same issues¹ yet again. For this reason, KIUC decided to encourage the waitlisted customers to pursue their projects under the Schedule Q Modified Tariff. KIUC recognizes that Schedule Q does not provide as “good a deal” for the customer as does NEM, but is a more equitable approach for purchasing renewable energy without the subsidy effect of full retail rate purchase of customer-generated power on KIUC’s members. Setting the benefit of small customer-generator retail rate compensation aside, Schedule Q does have a drawback: the monthly metering charge detracts from the potential economic viability of customer self-generation. To resolve this, KIUC is currently seeking to revise its Schedule Q Modified Tariff to remove the monthly metering charge for those customer-generators that are assessed a monthly customer charge under their normal rate tariff. Customers that only self-generate and deliver renewable energy to the utility but do not take utility service under a normal

¹ KIUC established in its Statement of Position in Docket No. 2006-0084 its concerns with NEM and the cross subsidization impact on non-NEM KIUC members.

rate schedule are still assessed the monthly meter charge to cover the cost of reading the meter and rendering a bill.

NEM Industry Interaction

KIUC believes that it is important to maintain its relationships with the renewable energy industry. This helps KIUC understand the challenges the industry faces in Hawaii and what it can do to help overcome those challenges. As provided by the NEM Limits Docket Stipulation, each party has a defined responsibility. The responsibility to timely provide KIUC with industry information, by which KIUC can consider the self-generation market trends and needs, falls on the industry representative. Although the industry representative did not contact KIUC or provide the requisite information in time to conduct an analysis for this IRP filing, KIUC did proactively seek to meet with the industry representative to discuss NEM activity and KIUC's actions regarding NEM and alternatives to NEM. This meeting was held in Honolulu on November 6, 2008. During this meeting, KIUC became acquainted with the new president of the Hawaii Solar Energy Association, Mark Duda, who recently replaced outgoing president Rick Reed. During the meeting, representatives from KIUC discussed the issues surrounding NEM and the impact of such issues on KIUC's membership. It was noted that in the interest of its members, KIUC cannot at this time raise its NEM limits. However, as an alternative, KIUC is encouraging its interested customer-generators to pursue their projects under Schedule Q. KIUC also noted that it is currently evaluating other alternatives to NEM and Schedule Q. These include the concepts of a "Standard Offer Purchase Power Agreement" and an alternate form of the Standard Offer known as a "Feed-In Tariff".

Hawaii Clean Energy Initiative

In mid-2008, the State of Hawaii ("State") entered into a Memorandum of Understanding with the U.S. Department of Energy ("DOE"), which resulted in the establishment of the Hawaii Clean Energy Initiative ("HCEI"). This initiative is currently underway and offers creative new ways for encouraging, among other things, greater penetration of customer-generation renewable energy systems. One of the HCEI items of keen interest to KIUC is the concept of a Feed-In Tariff.

In the consideration of NEM alternatives, KIUC acknowledges that NEM, while serving the useful and necessary role of assisting in solar/wind industry development, also has its drawbacks. Of greatest concern to KIUC is the fact that under the NEM concept a premium over and above the utility's cost of generation is paid to the customer-generator for energy delivery to the utility's system. The utility's customers subsidize this premium thus resulting in disparate and unfair treatment of the non-NEM customers. This problem is further exacerbated by the fact that NEM must be limited to avoid unacceptable impact of the premium subsidy on KIUC's members. Essentially, this results in NEM being available to only the customers that apply before the limit is reached, and thus can be considered a discriminatory practice by cooperative standards. A Feed-In Tariff however, based on an appropriate rate of return for each type of renewable technology can create

the incentive required by customer-generators to pursue their self-generation projects without the limitations that NEM places on participation.

Technical Impacts of NEM on KIUC's System

Distributive generation circuit level penetrations of up to 15% have been achieved with no apparent power quality issues. It is possible that greater circuit level penetrations can be achieved, however system impact studies must be conducted to determine if additional distribution infrastructure is required. KIUC notes that the system-wide effect of inverters tripping per the UL1741 under-frequency limit standards is becoming an issue. These inverters have too little tolerance for island power grid frequency excursions that can result in a simultaneous multiple inverter trip response to system frequency conditions that would not normally result in a KIUC system load shed. The sudden transfer of customer-generator loads to KIUC's system caused by oversensitive inverter under-frequency trip settings can create instantaneous system generation requirements that cannot be met by the amount of spinning reserve normally maintained by KIUC. As such, this places the entire system at risk of potential load shed conditions. KIUC has determined through discussions with inverter manufacturers that under frequency trip settings for inverters rated at 30kW and larger are generally user-programmable. To help mitigate the load shed issue, these inverters are now being reprogrammed to better accommodate the islands electrical system.

NEM and Schedule Q Activity Report

In addition to the NEM Program Activity Summary Report that KIUC provided to the Kauai PUC office on January 21, 2008, an updated summary is provided herein.

In the five months since reaching the NEM limit, interest in interconnecting renewable generators under KIUC's Schedule "Q" Modified Tariff has been significant. A total of 203 applications have been received and 17 customers have interconnected with a total generation capacity of 152 kWdc. It is expected that the majority of applicants will be interconnect within the next quarter.

As stated by the Commission in its D&O:

...the [C]ommission directs the electric utilities to address in IRP, to the extent not already included in the terms of the Stipulations, matters such as: rate and revenue impacts of NEM; reliability, safety, and power quality issues; and the effects, if any, of changes to NEM on the utility's interconnection standards. Moreover, to the extent that this type of information may not be sufficiently developed in the IRP process, and to supplement the information gathered in IRP, the [C]ommission directs each electric utility to evaluate the economic effects of NEM in their future rate case proceedings to allow the [C]ommission to evaluate the total economic impact of NEM.

KIUC notes that the information needed for this is not fully developed at this time and therefore will provide such information until such time that is available or, in the alternative, in its next rate case as is required pursuant to the Commission's D&O.

**Kauai Island Utility Cooperative
Updated NEM Status Report
NEM Installations and Planned Systems**

Year 2001

	Customer No.	Customer Type	System Type	Panel Capacity (kW)	Inverter Capacity (kW)	< Panel or Inverter (kW)	Energy Produced (kWh)	Connection Date	Surplus Energy 2002 (kWh)	Surplus Energy 2003 (kWh)	Surplus Energy 2004 (kWh)	Surplus Energy 2005 (kWh)	Surplus Energy 2006 (kWh)	Surplus Energy 2007 (kWh)
1	25	Res	PV	2.1	4.0	2.1	2,943	11/26/01	1,388	1,462	1,349	1,261	1,225	1,132
2	13	Res	PV	4.8	5.5	4.8	6,728	12/6/01	437	234	209	196	79	66

Year 2002

	Customer No.	Customer Type	System Type	Panel Capacity (kW)	Inverter Capacity (kW)	< Panel or Inverter (kW)	Energy Produced (kWh)	Connection Date	Surplus Energy 2002 (kWh)	Surplus Energy 2003 (kWh)	Surplus Energy 2004 (kWh)	Surplus Energy 2005 (kWh)	Surplus Energy 2006 (kWh)	Surplus Energy 2007 (kWh)
3	8	Com	PV	17.5	14.5	14.5	20,323	4/24/02	0	0	1	0	0	0
4	38	Res	PV	2.1	2.5	2.1	2,943	6/13/02	108	704	544	190	487	333
5	39	Res	PV	2.1	2.5	2.1	2,943	6/13/02	450	901	1,062	1,113	672	515
6	9	Res	PV	3.2	5.5	3.2	4,485	6/20/02	660	1,827	1,732	1,560	563	918
7	17	Res	PV	1.0	2.5	1.0	1,402	10/8/02	0	6	6	28	300	554
8	22	Res	PV	2.7	3.0	2.7	3,784	10/8/02	50	431	301	318	205	164
9	2	Res	PV	1.4	4.0	1.4	1,892	12/20/02	1	15	22	155	0	303
10	6	Res	PV	3.2	2.5	2.5	3,504	12/20/02	7	433	566	563	484	582
11	27	Res	PV	1.8	4.0	1.8	2,523	12/20/02	0	0	0	0	0	0

Year 2003

	Customer No.	Customer Type	System Type	Panel Capacity (kW)	Inverter Capacity (kW)	< Panel or Inverter (kW)	Energy Produced (kWh)	Connection Date	Surplus Energy 2002 (kWh)	Surplus Energy 2003 (kWh)	Surplus Energy 2004 (kWh)	Surplus Energy 2005 (kWh)	Surplus Energy 2006 (kWh)	Surplus Energy 2007 (kWh)
12	53	Res	PV	4.0	4.0	4.0	5,606	7/1/03		1,370	1,950	481	74	0
13	56	Res	PV	3.3	4.0	3.3	4,625	5/12/03		0	0	0	1,781	0
14	18	Res	PV	2.4	4.0	2.4	3,364	9/29/03		90	535	1,630	821	496
15	66	Res	PV	2.4	2.5	2.4	3,392	11/13/03		65	1,219	1,408	1,399	2,289

Year 2004

	Customer No.	Customer Type	System Type	Panel Capacity (kW)	Inverter Capacity (kW)	< Panel or Inverter (kW)	Energy Produced (kWh)	Connection Date	Surplus Energy 2002 (kWh)	Surplus Energy 2003 (kWh)	Surplus Energy 2004 (kWh)	Surplus Energy 2005 (kWh)	Surplus Energy 2006 (kWh)	Surplus Energy 2007 (kWh)
16	70	Res	PV	3.0	3.5	3.0	4,261	1/12/04			1,921	2,297	1,600	1,457
17	61	Res	PV	0.8	1.1	0.8	1,051	5/18/04			306	591	628	648
18	72	Res	PV	1.6	1.8	1.6	2,243	5/25/04			217	520	683	483
19	76	Res	PV	1.6	2.5	1.6	2,243	7/1/04			248	665	451	399
20	86	Com	PV	25.0	20.0	20.0	28,032	7/1/04			100	200	200	300
21	75	Res	PV	2.2	2.5	2.2	3,084	7/7/04			482	1,373	1,254	1,194
22	59	Res	PV	1.2	4.0	1.2	1,682	7/14/04			29	417	282	52
23	26	Res	PV	2.5	2.5	2.5	3,504	12/29/04			0	785	264	214

Year 2005

	Customer No.	Customer Type	System Type	Panel Capacity (kW)	Inverter Capacity (kW)	< Panel or Inverter (kW)	Energy Produced (kWh)	Connection Date	Surplus Energy 2002 (kWh)	Surplus Energy 2003 (kWh)	Surplus Energy 2004 (kWh)	Surplus Energy 2005 (kWh)	Surplus Energy 2006 (kWh)	Surplus Energy 2007 (kWh)
24	15	Res	PV	5.0	5.5	5.0	7,008	1/5/05				2,402	2,310	2,568
25	64	Res	PV	2.0	2.5	2.0	2,803	3/15/05				649	555	1,046
26	110	Res	PV	3.5	6.0	3.5	4,906	10/21/05				148	1,048	822

Year 2006

	Customer No.	Customer Type	System Type	Panel Capacity (kW)	Inverter Capacity (kW)	< Panel or Inverter (kW)	Energy Produced (kWh)	Connection Date	Surplus Energy 2002 (kWh)	Surplus Energy 2003 (kWh)	Surplus Energy 2004 (kWh)	Surplus Energy 2005 (kWh)	Surplus Energy 2006 (kWh)	Surplus Energy 2007 (kWh)
27	112	Res	PV	5.8	6.0	5.8	8,129	3/6/06					2,213	2,794
28	116	Res	PV	2.0	2.0	2.0	2,803	3/6/06					644	1,081
29	117	Res	PV	3.0	8.0	3.0	4,205	4/19/06					605	1,051
30	122	Res	PV	6.0	6.0	6.0	8,410	5/12/06					1,091	3,655
31	100	Res	PV	3.0	6.0	3.0	4,205	5/12/06					2,349	3,529
32	120	Res	PV	3.0	3.0	3.0	4,205	5/15/06					216	0
33	98	Res	PV	1.0	5.0	1.0	1,402	6/15/06					31	745
34	130	Res	PV	1.0	2.0	1.0	1,402	6/21/06					372	1,416
35	135	Res	PV	2.0	2.5	2.0	2,803	9/7/06					27	78
36	139	Res	PV	3.0	3.0	3.0	4,205	10/6/06					374	2,433
37	138	Res	PV	1.0	3.0	1.0	1,402	10/6/06					98	670
38	142	Res	PV	2.7	3.6	2.7	3,784	10/27/06					197	1,795
39	144	Res	PV	1.6	3.8	1.6	2,243	11/21/06					37	1,795
40	151	Res	PV	1.5	3.0	1.5	2,102	11/24/06					19	241
41	156	Res	PV	2.0	3.0	2.0	2,803	12/19/06					0	2,573

Year 2007

	Customer No.	Customer Type	System Type	Panel Capacity (kW)	Inverter Capacity (kW)	< Panel or Inverter (kW)	Energy Produced (kWh)	Connection Date	Surplus Energy 2002 (kWh)	Surplus Energy 2003 (kWh)	Surplus Energy 2004 (kWh)	Surplus Energy 2005 (kWh)	Surplus Energy 2006 (kWh)	Surplus Energy 2007 (kWh)
42	90	Res	PV	3.0	3.0	3.0	4,205	5/10/07						1,386
43	109	Res	PV	1.0	3.0	1.0	1,402	4/7/07						296
44	115	Res	PV	3.1	3.0	3.0	4,205	1/24/07						487
45	118	Res	PV	2.3	2.3	2.3	3,224	7/10/07						574
46	128	Res	PV	3.0	2.5	2.5	3,504	1/25/07						1,531
47	152	Res	PV	3.0	3.0	3.0	4,205	6/7/07						166
48	159	Com	PV	9.2	10.4	9.2	12,895	2/1/07						4,855
49	160	Res	PV	4.0	4.0	4.0	5,606	1/26/07						1,743
50	161	Res	PV	3.5	3.5	3.5	4,906	1/17/07						1,786
51	163	Res	PV	2.8	2.8	2.8	3,924	2/9/07						2,596
52	164	Res	PV	3.5	3.2	3.2	4,485	2/9/07						1,484
53	166	Res	PV	4.2	6.0	4.2	5,887	4/9/07						2,120
54	167	Res	PV	4.0	5.0	4.0	5,606	4/25/07						0
55	168	Res	PV	1.8	2.0	1.8	2,523	5/21/07						616
56	173	Res	PV	3.1	2.5	2.5	3,504	4/7/07						0
57	176	Res	PV	3.1	3.0	3.0	4,205	12/17/07						0
58	178	Res	PV	1.0	1.5	1.0	1,402	10/20/07						112
59	179	Com	PV	18.5	18.5	18.5	25,930	8/14/07						2,260

Year 2007 Continued

	Customer No.	Customer Type	System Type	Panel Capacity (kW)	Inverter Capacity (kW)	< Panel or Inverter (kW)	Energy Produced (kWh)	Connection Date	Surplus Energy 2002 (kWh)	Surplus Energy 2003 (kWh)	Surplus Energy 2004 (kWh)	Surplus Energy 2005 (kWh)	Surplus Energy 2006 (kWh)	Surplus Energy 2007 (kWh)
60	182	Res	PV	5.1	5.0	5.0	7,008	12/26/07						0
61	183	Res	PV	5.1	5.0	5.0	7,008	12/26/07						0
62	188	Res	PV	3.0	3.0	3.0	4,205	8/2/07						1,234
63	192	Res	PV	3.0	6.0	3.0	4,205	10/17/07						112
64	193	Res	PV	3.1	3.0	3.0	4,205	12/15/07						0
65	194	Res	PV	3.1	3.0	3.0	4,205	12/21/07						0
66	196	Res	PV	2.3	2.5	2.3	3,224	7/17/07						166
67	197	Res	PV	1.6	1.6	1.6	2,243	7/17/07						338
68	199	Res	PV	6.0	6.0	6.0	8,410	12/21/07						0
69	200	Res	PV	6.0	6.0	6.0	8,410	10/30/07						0
70	201	Res	PV	3.8	3.8	3.8	5,326	10/15/07						89
71	203	Res	PV	5.9	6.0	5.9	8,269	12/20/07						0
72	204	Res	PV	3.0	3.0	3.0	4,205	11/27/07						0
73	206	Com	PV	24.0	24.0	24.0	33,638	12/27/07						0
74	207	Com	PV	40.0	40.0	40.0	56,064	12/28/07						0
75	211	Res	PV	0.8	1.6	0.8	1,121	12/17/07						0
76	213	Res	PV	2.7	3.8	2.7	3,784	12/15/07						0
77	216	Com	PV	27.8	28.0	27.8	38,964	12/27/07						0
78	217	Com	PV	27.8	28.0	27.8	38,964	12/27/07						0

2008 to Date

	Customer No.	Customer Type	System Type	Panel Capacity (kW)	Inverter Capacity (kW)	< Panel or Inverter (kW)	Energy Produced (kWh)	Connection Date	Surplus Energy 2002 (kWh)	Surplus Energy 2003 (kWh)	Surplus Energy 2004 (kWh)	Surplus Energy 2005 (kWh)	Surplus Energy 2006 (kWh)	Surplus Energy 2007 (kWh)
79	145	Com	PV	55.8	50.0	50.0	70,080	2/10/08						
80	165	Com	PV	27.0	26.0	26.0	36,442	2/10/08						
81	172	Res	PV	3.0	3.0	3.0	4,205	3/28/08						
82	174	Res	PV	6.0	6.0	6.0	8,410	8/5/08						
83	177	Res	PV	5.8	6.0	5.8	8,129	11/24/08						
84	175	Res	PV	3.0	3.0	3.0	4,205	11/12/08						
85	185	Com	PV	50.0	50.0	50.0	70,080	2/10/08						
86	190	Res	PV	3.1	3.0	3.0	4,205	5/14/08						
87	195	Res	Wind	1.8	1.8	1.8	2,523	1/13/08						
88	202	Res	PV	1.8	4.0	1.8	2,523	2/25/08						
89	205	Res	PV	3.8	4.0	3.8	5,326	1/4/08						
90	208	Res	PV	4.0	7.2	4.0	5,606	4/14/08						
91	212	Res	PV	3.0	3.0	3.0	4,205	4/17/08						
92	214	Com	PV	14.7	14.0	14.0	19,622	1/10/08						
93	218	Res	PV	4.8	4.0	4.0	5,606	2/1/08						
94	219	Res	PV	3.1	3.0	3.0	4,205	2/26/08						
95	220	Res	Wind	1.8	1.8	1.8	2,523	7/11/08						
96	221	Res	PV	4.3	4.0	4.0	5,606	4/14/08						
97	222	Res	PV	3.0	3.0	3.0	4,205	3/7/08						
98	223	Res	PV	4.7	5.1	4.7	6,588	5/28/08						
99	224	Res	PV	2.0	4.0	2.0	2,803	3/27/08						
100	225	Res	PV	4.0	4.0	4.0	5,606	7/30/08						
101	226	Res	PV	2.4	3.0	2.4	3,364	5/8/08						
102	227	Res	PV	1.8	3.0	1.8	2,523	3/28/08						
103	228	Res	PV	1.8	3.0	1.8	2,523	5/6/08						

2008 to Date Continued

	Customer No.	Customer Type	System Type	Panel Capacity (kW)	Inverter Capacity (kW)	< Panel or Inverter (kW)	Energy Produced (kWh)	Connection Date	Surplus Energy 2002 (kWh)	Surplus Energy 2003 (kWh)	Surplus Energy 2004 (kWh)	Surplus Energy 2005 (kWh)	Surplus Energy 2006 (kWh)	Surplus Energy 2007 (kWh)
105	230	Res	PV	1.6	1.8	1.6	2,243	10/24/08						
106	231	Res	PV	1.4	3.0	1.4	1,962	5/9/08						
107	232	Res	PV	5.0	5.0	5.0	7,008	9/23/08						
108	233	Res	PV	1.8	7.0	1.8	2,523	10/24/08						
109	234	Res	PV	5.0	5.0	5.0	7,008	10/1/08						
110	235	Res	PV	1.8	7.0	1.8	2,523	5/8/08						
111	236	Res	PV	1.0	1.8	1.0	1,402	9/12/08						
112	237	Res	PV	1.1	3.0	1.1	1,542	9/12/08						
113	238	Com	PV	46.6	42.0	42.0	58,867	11/24/08						
114	239	Res	Wind	1.8	1.8	1.8	2,523	10/11/08						
115	240	Res	Wind	1.8	1.8	1.8	2,523	10/11/08						
116	241	Res	PV	3.5	4.0	3.5	4,906	7/16/08						
117	242	Res	PV	3.0	4.0	3.0	4,205	8/4/08						
118	243	Res	PV	3.0	4.0	3.0	4,205	6/26/08						
119	244	Res	PV	2.7	4.0	2.7	3,784	5/30/08						
120	245	Res	PV	3.1	4.0	3.1	4,345	7/7/08						
121	246	Res	PV	2.6	4.0	2.6	3,644	10/31/08						
122	247	Res	PV	3.0	4.0	3.0	4,205	7/11/08						
123	248	Res	PV	3.0	7.0	3.0	4,205							
124	249	Res	PV	3.0	3.0	3.0	4,205							
125	250	Res	PV	3.3	4.0	3.3	4,625	7/11/08						
126	253	Com	Wind	50.0	50.0	50.0	70,080							
127	254	Res	PV	6.7	7.0	6.7	9,391	5/23/08						
128	255	Res	PV	1.9	4.0	1.9	2,663	7/10/08						
129	256	Res	PV	1.3	1.5	1.3	1,822	8/1/08						
130	258	Res	PV	5.2	7.0	5.2	7,288	10/8/08						
131	259	Res	PV	3.5	4.0	3.5	4,906	8/25/08						
132	260	Res	PV	5.2	5.0	5.0	7,008							
133	261	Res	PV	5.0	5.0	5.0	7,008							
134	262	Res	PV	4.0	4.0	4.0	5,606	8/11/08						
135	263	Res	PV	4.0	4.0	4.0	5,606	8/11/08						

2008 to Date Continued

	Customer No.	Customer Type	System Type	Panel Capacity (kW)	Inverter Capacity (kW)	< Panel or Inverter (kW)	Energy Produced (kWh)	Connection Date	Surplus Energy 2002 (kWh)	Surplus Energy 2003 (kWh)	Surplus Energy 2004 (kWh)	Surplus Energy 2005 (kWh)	Surplus Energy 2006 (kWh)	Surplus Energy 2007 (kWh)
136	264	Res	PV	4.0	5.0	4.0	5,606	7/29/08						
137	265	Res	PV	4.0	4.0	4.0	5,606	7/29/08						
138	266	Res	PV	1.8	1.8	1.8	2,523	8/11/08						
139	267	Res	PV	6.0	6.0	6.0	8,410	7/25/08						
140	268	Res	PV	1.3	2.0	1.3	1,822	5/28/08						
141	270	Res	PV	3.0	3.0	3.0	4,205	10/3/08						
142	271	Res	PV	2.8	3.0	2.8	3,924	6/12/08						
143	273	Res	PV	6.2	6.0	6.0	8,410							
144	274	Res	PV	3.3	3.0	3.0	4,205	8/8/08						
145	276	Res	PV	3.0	3.0	3.0	4,205	11/12/08						
146	277	Res	PV	3.1	3.0	3.0	4,205	11/12/08						
147	278	Res	PV	0.2	3.0	0.2	280							
148	279	Res	PV	6.0	6.0	6.0	8,410	11/12/08						
149	280	Res	PV	7.0	7.0	7.0	9,811	9/25/08						
150	283A	Res	PV	6.0	6.0	6.0	8,410							
151	283B	Res	Pv	4.0	4.0	4.0	5,606							
152	284	Res	PV	10.0	10.0	10.0	14,016							
153	285	Com	PV	36.0	36.0	36.0	50,458							
154	286	Com	PV	12.0	12.0	12.0	16,819							
155	287	Res	PV	2.2	3.0	2.2	3,084	6/19/08						
156	288	Res	PV	3.0	3.0	3.0	4,205							
157	289	Res	PV	3.0	3.0	3.0	4,205							
158	290	Res	PV	5.0	5.0	5.0	7,008							
159	291	Res	PV	3.0	3.0	3.0	4,205							
160	291	Res	PV	3.0	6.0	6.0	8,410							
Totals				930.5	1013.7	908.6	1,273,438		3,101	7,538	12,799	18,950	25,638	64,342