

**INTEGRATED  
RESOURCE  
PLAN**

**THIRD FIVE-YEAR UPDATE**

**HARQUAHALA VALLEY POWER DISTRICT  
OF MARICOPA COUNTY  
AND THE STATE OF ARIZONA**

**December 12, 2011**

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## Profile Data

Harquahala Valley Power District (“HVPD” or “the District”) is a political subdivision of the State of Arizona. HVPD is a power district formed pursuant to Chapter 11, Title 48 of the Arizona Revised Statutes. The District was formed in 1963 for the purpose of providing power for use primarily for pumping water for irrigation. HVPD has been providing electrical service to its service area since 1987.

HVPD is located in western Maricopa County, Arizona. The District has a service area of approximately 55,000 acres, the majority of which are irrigable. HVPD serves irrigation pumping loads and other agriculturally related loads, as well as the loads of the Harquahala Valley Irrigation District. The irrigation pumps served by the District are owned and operated by the District’s customers, as are the other agriculturally related facilities. A map of HVPD’s service area is provided in **Appendix A**.

HVPD is governed by a three-member Board of Directors elected by freeholders of property within HVPD’s boundaries. Its current staff consists of one part time Manager and three part time employees. The District’s current Board of Directors and relevant contact persons are detailed below.

- **Board of Directors**

Wade Ferguson—President  
 Stephen Martori—Vice-President  
 Jack Doughty—Secretary

- **Contact Persons**

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HVPD purchases Hoover power together with certain firming resources (collectively, Hoover Resources) from the Arizona Power Authority ("the Authority"); it also purchases supplemental power from Arizona Public Service Company ("APS"). In addition, HVPD is a party to the Hoover Resource Exchange Program that permits HVPD and other similarly situated utilities to integrate and exchange Hoover Resources. The power and energy from APS and the Authority are transmitted over the Parker-Davis transmission system, the Pacific Northwest-Pacific Southwest Intertie transmission system and the transmission system of APS. Under a contract with APS, the power and energy are delivered over APS's facilities from the transmission system delivery points to the customers of HVPD. HVPD does not own any portion of the electrical transmission or distribution system. Certain distribution transformers located at HVPD customer locations are owned by certain HVPD customers.

HVPD, through the Maricopa County tax assessor, currently levies a modest property tax to cover a small portion of its operating expenses; the remainder is met out of power revenues. The policies for service and rates for power provided by HVPD to its customers are determined and set by its Board of Directors. Copies of HVPD's current rate schedules are attached as **Appendix B**.

In addition to crop prices and operating costs, the overall financial feasibility of the farming operations in the District is significantly impacted by high water pumping costs from deep wells using HVPD electrical power. HVPD purchases the majority of its power resources from the Authority and APS.

The District is located in the Harquahala Irrigation Non-Expansion area created by the 1980 Arizona Groundwater Management Act. This legally precludes any new acreage being added to the currently irrigable land in the District. The current projection of the District loads for the upcoming two-year period does not indicate that additional resources are needed. The resource scheduling and utilization of the District's resources have been managed through the Authority's Hoover Resource Exchange Procedures. This resource management program has provided the necessary flexibility for the District to re-pattern its resources monthly to meet its changing loads and exchange the resources with other preference entities who can temporarily utilize the power during the same periods. With the continuation of these programs, and current loads and resources, there is not any short-term need for additional resources for the District. Therefore, the District will use its current entitlement of Hoover resources with intermittent purchases of APS supplemental power to meet its projected loads through the two-year planning period. For the five-year planning period, a need for additional resources was identified. For this timeframe, the District anticipates using its Hoover resource entitlement, the Resource Exchange Program, and APS and Southwest Public Power Resources Group ("SPPR Group") resources to meet its projected loads.

## **District Goals and Objectives**

- Provide Reliable Electric Power at Lowest Practicable Cost, Consistent With Sound Business Principles
- Enhance Customer Financial Stability by Providing Services which Enhance Property Values and Provide Long-Term Stability in Electric Power Rates
- Promote Energy Efficiency and the Effective Management of Water and Power Resources

## **Competitive Situation**

- **District Contract Information**

Arizona Power Authority (Hoover Power Contract)  
Power Supply and Services Agreement with APS [Approved by FERC]  
Southwest Public Power Resources Group/Sempra Generation (Power Purchase Agreement)

- **Regulations Applicable to District**

Energy Planning and Management Program (EPACT '00)

- **Regulations Applicable to District Customers**

Arizona Department of Water Resources—Groundwater Management Act (prohibits irrigation of any new farmland)

- **Competition With District Service**

APS provides retail service in direct competition to District service and has several retail rates that are openly available to the customers of HVPD. In many instances, APS and HVPD serve power to different loads of the same customer.

There is competition among HVPD lands and several other geographic areas of the State to attract a dwindling number of successful tenant farmers based upon lease cost and water costs (i.e. pumping costs). Therefore, to the extent that the water pumping costs in HVPD become significantly higher than other areas, the reduced competitive ability of HVPD to attract tenant farmers may significantly impact the irrigated acreage and electric load of the District, and further depress property values.

## Load and Resource Information

- **Historical and Five-Year Load Forecast:**

Oct-Sep	Winter Demand CP @ Sub (kW)	Summer Demand CP @Sub (kW)	Peak Annual Growth	Energy @Substation (kWh)	Energy @Meters (kWh)	Load Factor
2002	6,227	7,054		35,706,305	33,742,457	58%
2003	5,764	7,135	1%	30,378,130	28,707,333	49%
2004	6,343	10,537	48%	49,747,076	47,010,986	54%
2005	8,046	11,059	5%	42,839,429	40,483,261	44%
2006	5,448	6,544	-41%	22,701,083	21,452,525	40%
2007	7,797	11,699	79%	45,147,237	42,664,140	44%
2008	10,161	13,110	12%	72,671,896	68,674,942	63%
2009	10,600	12,702	-3%	78,208,854	73,907,367	70%
2010	8,151	13,572	7%	62,736,773	59,286,250	53%
2011	9,823	14,412	6%	71,976,966	68,018,233	57%
<b><i>Current Forecast</i></b>						
2012	9,823	14,412	0%	71,976,966	68,018,233	57%
2013	9,823	14,412	0%	71,976,966	68,018,233	57%
2014	9,823	14,412	0%	71,976,966	68,018,233	57%
2015	9,823	14,412	0%	71,976,966	68,018,233	57%
2016	9,823	14,412	0%	71,976,966	68,018,233	57%

See **Appendix C** for a summary of the historical monthly load information (by operating year) as well as a graphical illustration of how the District schedules its resources to cover its loads in a typical year.

- **Customer Profile Information**

Agriculture—99%

- Irrigation Pumping Plants—58%
- Other Ag-Related Loads—41%

Harquahala Valley Irrigation District Office —1%

See **Appendix C** for a graphical illustration.

- **Supply Side Resources**

The District anticipates that current federal resources under contract, managed through the continuation of the Resource Exchange Program, will be sufficient for the District to meet its monthly power and energy requirements through the short-term planning period, when supplemented by APS power that will continue to be purchased from time-to-time to cover any short-term power shortfalls. For the long-term planning period, the District has determined to secure an additional long-term resource to diversify its portfolio of suppliers and provide additional options for firming through the Resource Exchange Program.

As described in the District's prior Plan, HVPD spent several years participating with the SPPR Group in evaluating future resource opportunities. The SPPR Group is an association of forty not-for-profit electric utilities, including cooperatives, municipalities, tribal power authorities, and irrigation and electric districts providing service in Arizona, California, and Nevada. Taking advantage of the Group's size to broaden the scope of possible supplies, multiple options for resources were considered, including both construction of a generating unit and purchase of a portion of an existing generating unit. Ultimately, however, both of these options became infeasible due to economic and regulatory circumstances. The Group then issued a Request for Proposals ("RFP"), in response to which a variety of proposals could be submitted, including unit contingent proposals, turnkey proposals, 25-year purchase power agreements, slice of utility system offers in which the sale would be treated with the same firmness as native load, and the sale of existing generating units. The RFP was later modified to reflect the changing requirements of the participants, and required bids to be for unit contingent power or firm power from dedicated units, including slice of system sales. Bids were also required to be for fully dispatchable service. Ultimately, due to economic and other considerations, it was determined that the most practicable option was a long-term power purchase agreement. Beginning January 1, 2015, the District will begin operating, as a member of the SPPR Group, under its new Power Purchase Agreement with Sempra Generation.

Detailed below are the District's current contractual commitments:

Arizona Power Authority (Hoover Power) at Buckeye Substation

- o Hoover A Capacity & Energy
  - 2,390 kW (Maximum with Hoover Firming Capacity)
  - 8,168,000 kWh (Contract Entitlement)
- o Expires September 30, 2017

Power Supply and Services Agreement (APS)

- o Capacity & Energy as needed
- o Wheeling from Buckeye Substation to meters
- o Meter Reading and Customer Billing Services
- o Losses from Substation to Meters

- Capacity loss factor: 7.9 %
- Energy loss factor: 5.5 %
- Expires December 31, 2020

Power Purchase Agreement (Sempra Generation—through SPPR Group)

- Firm Capacity and Energy
  - 5,000 kW
  - Energy as needed
- Effective January 1, 2015; expires December 31, 2039

- **Demand Side Resources**

The majority of the District's electric power is utilized to pump groundwater for agricultural purposes. The following is a list of some of the on-going water conservation practices that are implemented by the District's customers to efficiently utilize groundwater and therefore electricity. Most notably, a substantial portion of the acreage being farmed in the District is now irrigated using drip irrigation systems, providing maximum conservation of water and minimum requirement of electricity for groundwater pumping.

Alternate Furrow Irrigation	Graded Furrow or Border	Use of Gated Pipe
Cut-Back Irrigation	Portable Sprinklers	Micro spray Systems
Angled Rows	Uniform Slopes	Tail Water Recovery
Shortened Field Lengths	Deficit Irrigation	Irrigation Scheduling
Land Leveling	Soil & Water Amendments	Concrete Ditch Lining
Precision Tillage	Cropping Pattern-Winter vs. Summer	Subsoil Drip Irrigation Systems

## **Identification and Comparison of Resource Options**

The identification of options for additional resources within this Integrated Resource Plan is coordinated through an examination of the costs and benefits for each resource. Because the majority of the District's customers already implement numerous irrigation and agricultural efficiency practices in their operations, opportunities for additional energy savings through demand side management ("DSM") are very limited. However the District will continue to look for additional opportunities for energy savings from evolving technological advances in agricultural water conservation practices. To the extent practicable, the District will also endeavor to promote customer awareness of pumping workshops and other similar forums for further education on advancements in water conservation practices and technology.

## Designation of Options

If additional resources are needed, the least cost option is identified from a cost benefit analysis. This information is considered by the Board of Directors in public meetings and combined with other information to select an Action Plan for the District that conforms to the regulations and guidelines of the Energy Planning and Management Program. The selection of the District's Action Plan also includes consideration for reliability of service, economics, rate impacts and price elasticity, environmental effects, regulatory impacts and risks, legal considerations and risks, competitive impacts, social acceptance and public considerations and any other factors which may be identified from time-to-time which may be pertinent in selecting or implementing an Action Plan.

## Action Plan

- **Resource Action Plan**

The time period covered by the District's Action Plan is the five-year period from 2012 through 2016.

The District has determined that to provide reliable electric power at the lowest practicable cost, consistent with sound business principles, the District will continue using its long-term entitlement of Hoover Resources to supply as much as possible of the District's projected long-term power requirements. The current federal resources and continuation of the Authority Hoover Resource Exchange Program will be sufficient for the District to meet its monthly power and energy requirements through the short-term planning period when supplemented with some purchases of APS power that will continue to be made to cover any short-term power deviations.

For the long-term planning period, the District has identified a need for additional resources, with the objective of increasing its options for firming resources purchased through the Resource Exchange Program, and to serve as a successor for long-term contracts which will terminate in coming years. Therefore, HVPD has entered into a long-term power purchase agreement as a member of a group of public power entities. Together with the District's existing contractual arrangements, this is anticipated to be sufficient to meet all of the District's requirements over the five-year planning period. No further resources will be required. The District continuously reevaluates the possible need for new resources, the availability of less costly resources and the potential for additional DSM activities. The District's Resource Action Plan enhances customer financial stability by providing services that will enhance property values and provide long-term stability in electric power rates.

The District provides power for irrigation pumping to farmlands that are also served from surface water supplies from the Central Arizona Project ("CAP"). The CAP began delivering water to farmlands within the District in 1988 and the CAP policies for pricing and availability of CAP water have changed dramatically since the start of CAP deliveries. Since pumped water and CAP water are both essential in providing a reliable supply of water to farmed lands, the impacts of CAP water deliveries upon the District's loads can be significant from year-to-year. In addition, certain pumps served by the District are required for the delivery of CAP water and thus the level of CAP water available has a direct effect upon the electrical loads associated with those pumps. Currently CAP pricing is increasing annually. CAP water price support programs are currently being implemented to encourage additional CAP water usage which impacts the District's annual pumping loads. Under the CAP policies, CAP water committed to the District declines in the future, putting additional pressure on pumping to supply the District's water needs.

Even if CAP water could supply the entire water requirements for certain farms, the electric supplies are needed to backup the water system to reliably meet the water requirements of the farmed lands during canal outages and to supply ineligible farm lands due to Reclamation Reform Act regulations. While the impact of CAP water is significant upon the seasonal electric requirements of the District, the District's current resources and flexibility provided from the Hoover Resource Exchange Program should be sufficient for the District to adjust its resources to the changes in load requirements which may result from changes in CAP water delivered to District land owners for the five-year planning horizon.

Since no new resources are needed, there are no milestones to evaluate accomplishment of the Plan activities. Nevertheless, the District will monitor any adjustments to the Plan for the long-term resource needs and will annually review its electric loads and resources for any significant changes. In the event the loads of the District are projected to materially increase above those levels represented in the Load and Resource information, other than normal deviations due to cropping changes or weather impacts, the District will review its forecast and evaluate the need for modifying its Integrated Resource Plan and notify Western accordingly. In any event, the District will evaluate its load forecast and resource information in detail every five years and refresh its Integrated Resource Plan, in accordance with Western's regulations.

- **Conservation Action Plan**

The District has decided to continue certain conservation activities to promote and maintain energy efficiency and customer awareness for conserving electric, water, and land resources.

**Period:** Calendar Years 2012 through 2016  
**Activity:** Information Exchange Program

**Goal:** Test 20% of customer pumping plants every year for 5 years.  
The District attempts to test all pumps once or twice each year.

**Activity Description:** Irrigation Pump Efficiency Testing

- **Validation and Evaluation**

The District's farmers own and operate their own pumps. Each farmer maintains individual databases of the efficiency of their wells and pumping plants. This information is usually determined using electrical usage information and pump efficiency tests. The District's program of testing customer pumping plants will continue to help the customers evaluate each pumping plant and identify pumping plants which may be experiencing a decrease in overall pumping efficiency. This information may then help the farmers to manage their maintenance programs to optimize electrical consumption efficiency. Under this program the District will attempt to periodically test each pumping plant operated within the District in cooperation with the District's customers. With the pump test information, and previous test information, an efficiency trend pattern can be prepared. From the test information, the associated cost savings that might result if the tested pump were operating at a theoretical 100% efficiency level can be provided to the customer based upon the current District rates. The efficiency information may assist the farmers in scheduling planned maintenance of the pumping plants and will identify the financial benefit from performing the efficiency improvements on a more frequent basis. Overall, on a District wide basis, the ongoing pump testing and monitoring activity should encourage more frequent pump maintenance which will result in an overall efficiency improvement and energy savings. The Conservation Action Plan will be evaluated annually to determine whether 20% of the pumping plants have been tested in that year.

## **Environmental Effects**

The District is required, to the extent practicable, to minimize adverse environmental effects of new resource acquisitions and document these efforts in the Integrated Resource Plan. As noted above, the District has secured an additional long-term resource which will become effective January 1, 2015. In procuring this resource, the District worked collaboratively with a group of other similarly situated entities, known collectively as the SPPR Group. Options for meeting anticipated future needs were carefully considered, including the consideration of renewable resources. The SPPR Group also utilized an Independent Market Monitor bidding process overseen by the Arizona Corporation Commission to ensure the request for proposals process resulted in the best alternative, and provided an unbiased evaluation platform. However, no appropriate renewable resource was identified. The resource ultimately selected is output from a natural gas supplied plant. Selection of a gas fired generation source will help the District avoid future purchases from coal-fired generation, or market purchases from a blended fuel mix which may include nuclear or coal. For HVPD, the SPPR resource is intended to augment and displace current supplemental power supply

arrangements which utilize a blend of thermal resources and provide operational margins in the event surface water deliveries decrease. In addition, the acquisition of this resource will allow the District the flexibility to incorporate additional renewable resources which require firming, such as wind or hydro generation. Ultimately, the District intends to utilize hydro resources and its firming capabilities through the Hoover Resource Exchange Program to meet the majority of its electric loads. To the extent the District utilizes the Resource Exchange Program and its firming capabilities to exchange and better utilize the hydro resources of the District and other similarly situated utilities, such efforts should be environmentally beneficial since such increased utilization would offset thermal generation purchases.

In addition to maximizing the hydro-electric resources, the District's customers are involved in substantial water conservation programs in their farming practices. The investment made by the District's customers in installed water conservation technology is extensive and far-reaching. As noted above, a considerable amount of the District's irrigated acreage is now under drip irrigation systems. Their ongoing conservation practices and ongoing maintenance of conservation investments continue to conserve significant amounts of groundwater, and thereby electricity, annually. To the extent the District sponsors conservation activities and information activities with its customers, the conservation of groundwater is the fundamental achievement, which is environmentally beneficial and economically sound.

## Public Participation

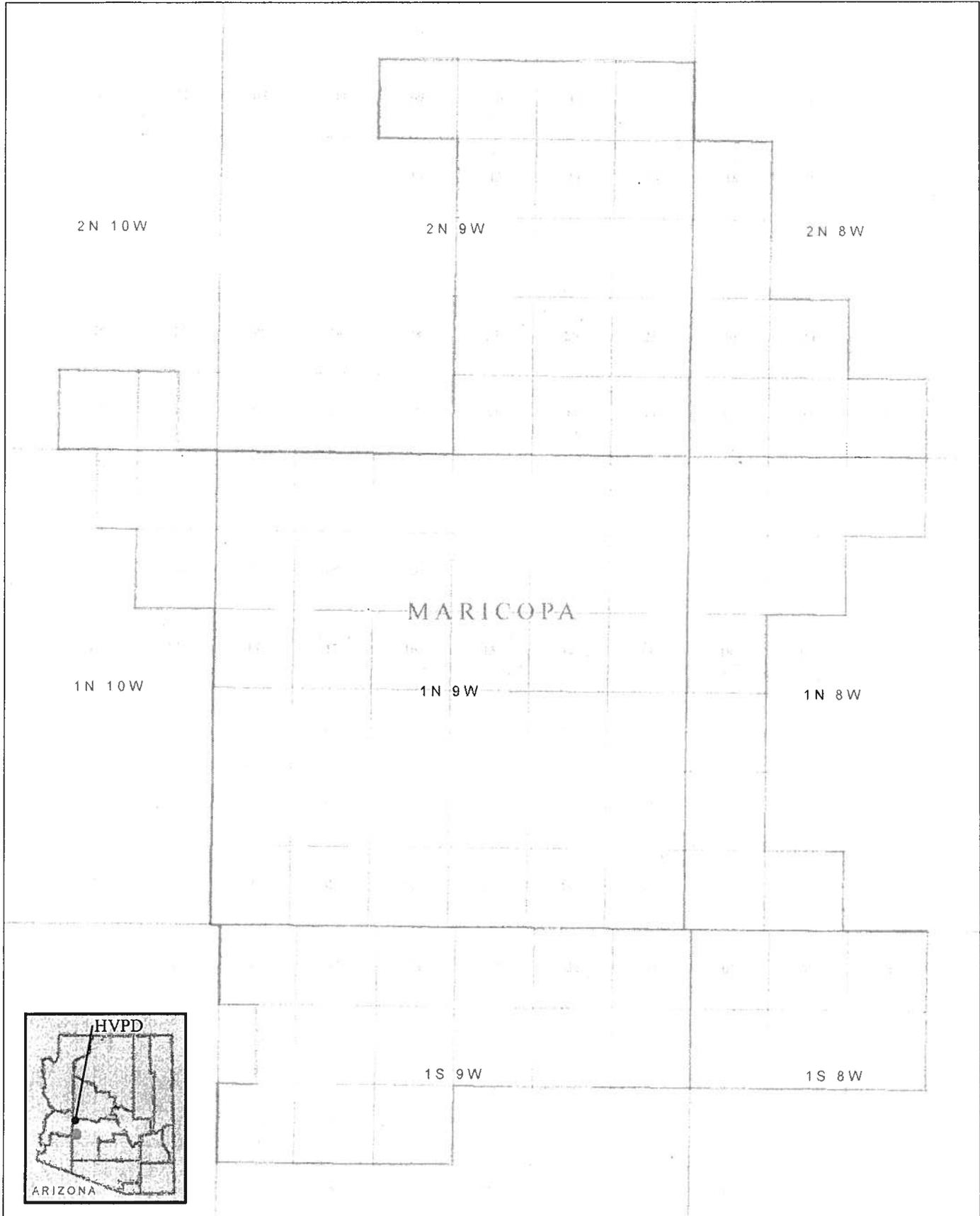
The District has held a public meeting to discuss the development of the District's Integrated Resource Plan.

Prior to the meeting, the District posted notice in advance of the meeting, giving the time and place of the meeting and specifying that the District would be considering a draft Integrated Resource Plan at the meeting. The notice was posted in accordance with statutory open meeting law requirements. The notice stated that the draft Integrated Resource Plan would be available to the public in advance of the meeting and that public comment on the draft Integrated Resource Plan would be accepted at the meeting. A copy of the notice is attached as **Appendix D**.

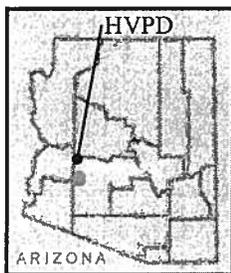
At the meeting, the draft Integrated Resource Plan was presented to the Board. After discussion and the opportunity for public comment, the Board authorized the preparation of a final Integrated Resource Plan, with such revisions as the Board deemed appropriate. There were no public comments provided at the meeting or in writing.

1 in = 2 miles

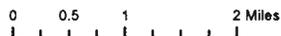
# APPENDIX A -- Map of District Boundary



Sources: Township Range Section AZ State land - Altra District Boundary 2011 Maricopa County GIS website  
 Maricopa County data - Not verified by KRSA  
 krstataz2001\URPM\MAP\HVPD Created 06/14/2011 Edited 06/14/2011 by HJS using arcview 10



## Harquahala Valley Power District



### Legend

- Townships
- County Boundary
- Sections
- District Boundary

**DISCLAIMER:**  
 K.R. Saline & Associates, PLC  
 Does not warrant the accuracy  
 or location of the facilities shown



**Harquahala Valley Power District**

Customer Class	Demand Charge (\$/kw-mo)	Energy Charge (\$/kWh)	Customer Charge (\$/meter/month)	Sales Tax
Rate 10 - Irrigation Pumping	\$4.00	\$0.048	\$49.50	N/A
Rate 1 – Non-Irrigation Ag	\$4.00	\$0.048	\$49.50	N/A
Rate 2 – Gin	\$4.00	\$0.048	\$49.50	7.30%

APPENDIX C.1 -- Historical Monthly Load Summary

Harguhala Valley Power District

Demand @ Meters (kW)

Year	October	November	December	January	February	March	April	May	June	July	August	September	Max
2002	5,735	4,899	3,307	2,580	2,570	4,651	5,963	6,497	6,197	6,276	6,374	6,297	6,497
2003	5,309	3,362	3,029	2,037	2,849	2,387	5,993	6,175	6,187	6,571	6,391	6,152	6,571
2004	5,311	4,106	2,762	4,593	4,883	5,842	9,517	9,705	9,547	9,668	9,190	9,028	9,705
2005	7,410	1,294	1,629	2,219	4,037	6,134	10,004	10,185	8,319	8,935	9,273	8,044	10,185
2006	4,977	4,017	5,018	4,510	4,558	1,766	2,991	3,086	4,638	6,027	2,901	2,440	6,027
2007	2,413	2,038	1,500	3,692	4,661	7,181	7,698	8,248	10,061	10,061	9,836	10,775	10,775
2008	8,647	8,675	6,783	7,077	9,062	9,358	10,667	11,099	11,403	11,902	12,074	11,020	12,074
2009	9,763	8,333	3,337	5,647	9,391	8,781	11,210	11,598	11,598	11,527	11,699	11,221	11,699
2010	7,507	4,157	2,308	4,270	1,413	4,867	11,192	11,719	12,198	12,500	11,212	10,673	12,500
2011	5,917	4,678	1,509	3,813	7,172	9,047	11,791	11,911	12,999	12,424	12,290	13,273	13,273

Demand @ Substation (kW)

Year	October	November	December	January	February	March	April	May	June	July	August	September	Max
2002	6,227	5,319	3,591	2,801	2,790	5,050	6,474	7,054	6,729	6,814	6,921	6,837	7,054
2003	5,764	3,650	3,289	2,212	3,093	2,592	6,507	6,705	6,718	7,135	6,939	6,680	7,135
2004	5,767	4,458	2,999	4,987	5,302	6,343	10,333	10,537	10,366	10,497	9,978	9,802	10,537
2005	8,046	1,405	1,769	2,409	4,383	6,660	10,862	11,059	9,033	9,701	10,068	8,734	11,059
2006	5,404	4,362	5,448	4,897	4,949	1,917	3,248	3,351	5,036	6,544	3,150	2,649	6,544
2007	2,620	2,213	1,629	4,009	5,061	7,797	8,358	8,955	8,757	10,924	10,680	11,699	11,699
2008	9,389	9,419	7,365	7,684	9,839	10,161	11,582	12,051	12,381	12,923	13,110	11,965	13,110
2009	10,600	9,048	3,623	6,131	10,197	9,534	12,172	12,593	12,591	12,516	12,702	12,183	12,702
2010	8,151	4,514	2,506	4,636	1,534	5,284	12,152	12,724	13,244	13,572	12,174	11,588	13,572
2011	6,425	5,079	1,638	4,140	7,787	9,823	12,802	12,933	14,114	13,490	13,344	14,412	14,412

Energy @ Meters (kWh)

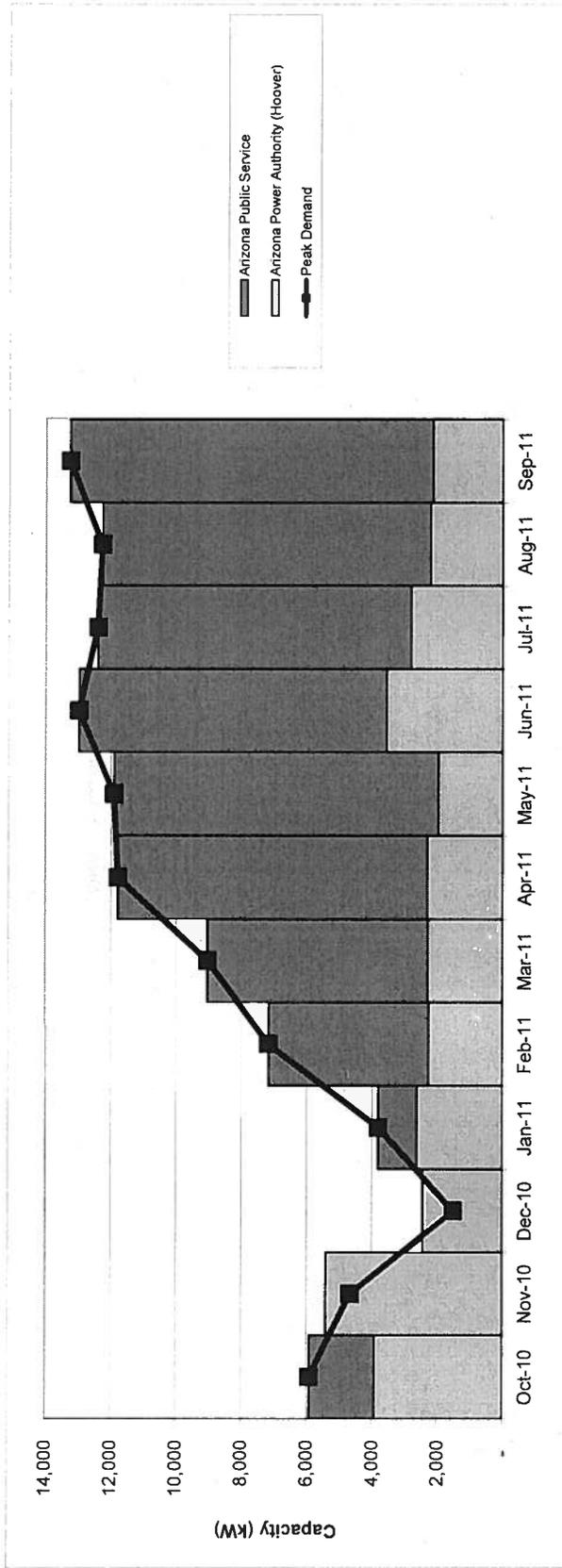
Year	October	November	December	January	February	March	April	May	June	July	August	September	Total
2002	2,466,091	2,277,124	868,810	701,577	1,056,490	2,207,413	3,520,403	4,001,862	4,279,282	4,072,396	4,710,917	3,578,092	33,742,457
2003	2,693,846	1,573,862	1,412,047	585,701	874,304	506,118	3,262,151	3,696,137	3,912,455	4,564,230	2,576,462	3,050,020	28,707,333
2004	3,315,507	1,368,093	849,384	1,528,667	2,260,366	2,726,127	5,190,946	5,887,293	5,887,293	6,168,801	5,873,803	6,071,456	47,010,986
2005	3,340,946	1,192,233	464,063	443,289	807,753	2,791,068	6,019,896	5,576,926	5,327,446	5,807,175	4,149,774	5,635,692	40,483,261
2006	2,117,316	1,556,716	1,383,589	1,599,218	2,397,243	814,424	1,566,526	1,456,354	2,687,066	3,718,796	1,250,857	904,420	21,452,525
2007	750,670	464,190	326,237	961,811	1,834,676	3,263,141	4,728,590	5,317,395	5,073,032	6,623,302	6,429,154	6,891,942	42,664,140
2008	4,391,214	4,671,402	1,588,342	3,016,259	3,835,618	5,730,673	7,121,704	7,774,874	7,366,709	8,110,476	8,087,112	6,960,559	68,674,942
2009	6,426,103	5,083,790	654,923	2,416,269	5,490,488	5,834,463	7,844,527	8,057,251	7,998,565	7,982,965	8,080,919	8,037,104	73,907,367
2010	4,831,707	2,105,551	861,283	1,061,818	566,824	1,997,377	6,923,424	8,144,518	8,697,750	9,207,131	7,463,103	7,419,764	59,286,250
2011	2,847,088	2,022,680	236,840	1,221,284	3,271,747	5,511,268	8,126,365	7,917,612	9,306,808	8,929,989	9,084,660	9,541,892	68,018,233

Energy @ Substation (kWh)

Year	October	November	December	January	February	March	April	May	June	July	August	September	Total
2002	2,609,620	2,409,655	919,376	742,410	1,120,095	2,335,887	3,725,294	4,234,775	4,528,341	4,309,414	4,985,097	3,786,341	35,706,305
2003	2,650,631	1,665,462	1,494,230	619,789	925,189	535,575	3,452,012	3,911,256	4,140,164	4,829,873	2,726,415	3,227,534	30,378,130
2004	3,508,473	1,447,717	898,819	1,617,637	2,391,922	2,894,790	5,493,065	6,106,395	6,229,940	6,527,832	6,215,665	6,424,821	49,747,076
2005	3,535,393	1,261,721	491,072	469,089	854,765	2,953,511	6,370,260	5,901,509	5,637,509	6,145,159	4,391,295	5,963,695	42,839,429
2006	2,240,546	1,647,319	1,464,115	1,692,294	2,536,765	861,824	1,657,699	1,541,115	2,843,456	3,935,234	1,323,658	957,058	22,701,083
2007	794,360	491,206	345,224	1,017,789	1,941,456	3,453,059	5,003,799	5,626,873	5,368,288	7,008,785	6,803,338	7,293,060	45,147,237
2008	4,646,787	4,943,293	1,680,785	3,191,808	4,058,855	6,064,204	7,536,195	8,227,380	7,816,623	8,582,514	8,557,790	7,365,671	72,671,896
2009	6,800,109	5,379,672	693,040	2,556,898	5,810,040	6,174,035	8,301,087	8,526,192	8,464,090	8,447,582	8,551,237	8,504,872	78,208,854
2010	5,112,917	2,228,096	911,411	1,123,617	599,814	2,113,626	7,326,375	8,618,538	9,203,968	9,742,996	7,903,813	7,851,602	62,736,773
2011	3,012,792	2,140,402	250,624	1,292,364	3,462,166	5,832,030	8,599,328	8,378,425	9,848,474	9,449,724	9,613,397	10,097,240	71,976,966

**Harquahala Valley Power District**

**SCHEDULED RESOURCES TO COVER TYPICAL PEAK DEMAND**



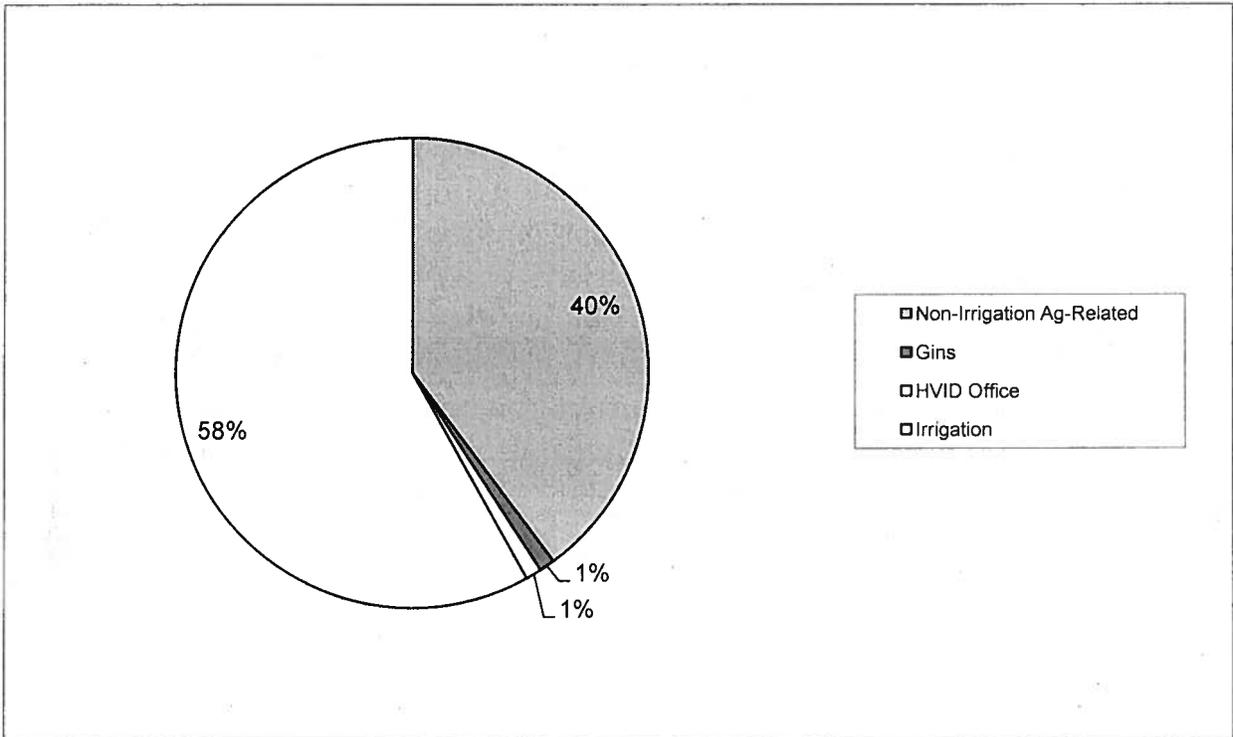
**Resources**

	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11
Arizona Power Authority (Hoover)	3,927	5,410	2,443	2,627	2,273	2,296	2,315	1,976	3,574	2,822	2,216	2,149
Arizona Public Service	1,990	-	-	1,186	4,899	6,751	9,476	9,935	9,425	9,602	10,074	11,124
<b>Peak Demand</b>	<b>5,917</b>	<b>4,678</b>	<b>1,509</b>	<b>3,813</b>	<b>7,172</b>	<b>9,047</b>	<b>11,791</b>	<b>11,911</b>	<b>12,999</b>	<b>12,424</b>	<b>12,290</b>	<b>13,273</b>

**Harquahala Valley Power District**

*Customer Profile*

Customer Type	# of Customers
Non-Irrigation Ag-Related	37
Gins	1
HVID Office	1
Irrigation	54
<b>Total</b>	<b>93</b>



## HARQUAHALA VALLEY POWER DISTRICT

P.O. Box 1267  
Mesa, AZ 85211-1267  
Phone (480) 610-8741  
Fax (480) 610-8796

### PUBLIC NOTICE

**Harquahala Valley Power District** (“the District”) will be holding a board meeting at 9:00 a.m. on December 12, 2011 at the offices of Martori Farms, 7332 E. Butherus Drive, Scottsdale, Arizona. At that board meeting the District will review and approve its updated Integrated Resource Plan. This Integrated Resource Plan, which is required by the Western Area Power Administration, details the District’s power resource plan for the next five years. The final Integrated Resource Plan will be available to the public at the District’s office prior to the meeting. Written comments regarding the Integrated Resource Plan will be accepted any time prior to or at the meeting. Public comments will also be accepted at this time. Please contact Jennifer Torpey at (480) 610-8741 for more information.