

Imperial Irrigation District Energy Efficiency Enhancements

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About IID

- Public owned utility
- Interties with SDG&E, SCE, WAPA and APS
- Sixth largest electrical utility in California
- Over 147,000 customers
- One of the Five Balancing Authorities in California



Customer Demographics

- All of IID's service territory is in Climate Zone 15 – summer temperatures can reach 125° making air conditioning a necessity rather than a convenience
- Service territory covers 6,471 square miles, from the Mexican border to Riverside County, includes all of Imperial County
 - *At 25.1%, Imperial County has highest unemployment rate in nation coupled with one of the lowest average incomes in state*
 - *In Riverside County, IID serves a high number of unemployed and seniors on fix incomes*

Customer Demographics (continued)

- Greater than 58% of the existing residential building stock in IID's service territory is pre-1992 – meaning that these residences have central ACs with a SEER rating of 10 or less
 - *Replacing an 8 SEER AC with a 16 SEER has the potential reduce annual electric bills by 30%*
 - *For every 1,000 SEER 8 units that are replaced 5,786,000 kWh will be saved*

IID's Current AC Program

- IID currently offers customers a rebate program which covers approximately 10% of replacement costs
- 300-500 customers typically take advantage of the program each year
- Average payback is 10 years at current IID rebate levels
- **Biggest barrier to participation: high upfront costs to consumers**

IID's Current Initiatives

- IID is aggressively working with cities and counties in service territory to expand energy efficiency
 - *Municipal facilities*
 - *Joint outreach*
 - *Behavioral programs*
- IID has offered to administer AB811 programs adopted by cities to eliminate staffing issues

Enhanced Program

- With an infusion of \$5 million in stimulus funding IID would:
 - *Increase participation to 3,000-5,000 units per year by providing customers with an aggressive financing program*
 - *Finance options would include*
 - Loans to end users
 - Interest buy downs
 - Loan guarantees
- IID will also increase its program funding by \$5 million each year for 5 years
- IID has other programs in place today that will provide prospecting and system evaluation
- Enhanced program would utilize AB 811, hybrid AB 811, and/or IID financing

Enhanced Program—After First Year

- Demonstrate success to potential financial institutions
- Provide opportunity to sell loan portfolio
 - *Develops critical mass and portfolio dimensions*
 - *Funds released used for interest buydowns or loan guarantees*

Potential Results

- IID estimates that 50-75 jobs will be added or retained in the community with every 1,000 replacements
- Changing out an old inefficient unit will drastically reduce customer electric bills and allow them to shift dollars to other purchases within the community
- The replacement of 1,000 units will reduce Greenhouse Gas emissions by 4.7 million pounds annually – this is equivalent to taking 387 cars off the road

Time Table

- Current IID supporting programs already in place
- Financing program development will take 1-2 months
- Financing program can be customer ready within 2 months of funding approval

Assistance

- Enable IID to do AB811 financing
- Provide starter funds that will accelerate and facilitate program implementation

Questions?