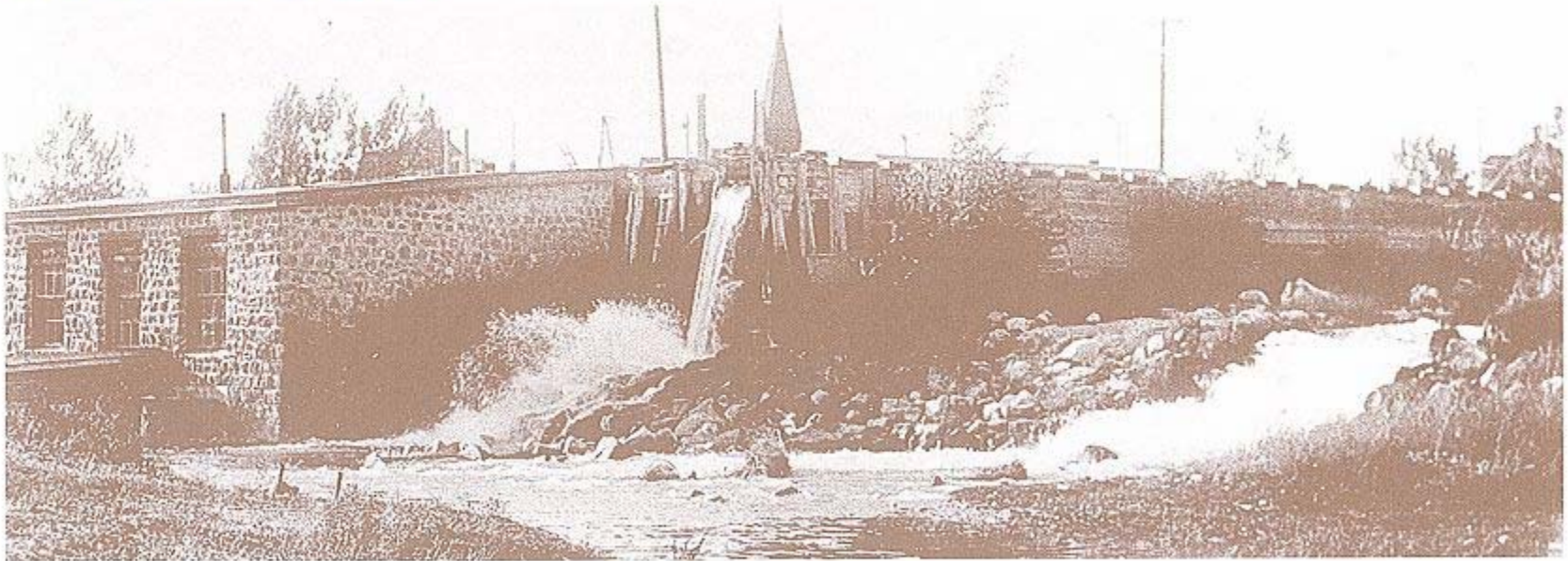


**Switch**  *to Energy Efficiency!*

*An energy efficiency challenge  
from the City of Idaho Falls*

# Switch to Energy Efficiency!

## THE CANAL ERA



THE ORIGINAL 1900 POWER PLANT GENERATED ELECTRICITY FROM THE WATER TUMBLING OUT OF AN IRRIGATION DITCH.

*More than 100 years ago, Idaho Falls founding fathers had the foresight to pursue energy independence for a healthy, prospering community. That same objective is shared by today's community leaders.*

# Switch to Energy Efficiency!



- Four run-of-the-river hydro plants (~50 MW)
- BPA resources provide the bulk of our electricity
  - Federal system to be fully allocated 2011
- 90%+ emission free power resources
- 0.089 pounds CO<sub>2</sub> per kilowatt-hour
- Supplemental power purchased on market



## *Trends*

- IFP resources now provide approximately 30% of need (use to be substantially more)
- Winter peak “flat” since 1998
- Summer peak has increased 40% since 1997
  - Growing from 81 MW to 113 MW in 2007
  - Allowing loads to continue on this trend will reduce competitive advantage we have in seasonal wholesale power markets.

**Action: Enhance Energy Efficiency Plan**



*Idaho Falls Power has offered energy efficiency programs since 1982.*

- Saved 33 million kWh
- Average of 1.2 million kWh per year



*Goal: increase to 5 million kWh per year  
(equates to 1352 metric tons of CO<sub>2</sub>)*

# Switch to Energy Efficiency!

*The Mayor and City Council believe it is important that City be a leader in energy efficiency. That means getting our house in order...*



Kick off lighting improvements in City Hall (1930 building)

- Save 62,774 kWh per year
- \$13,189.56 total cost
- BPA rebate \$5,064.80
- Simple pay back ~2 years

# Switch to Energy Efficiency!

March 2008, BPA credit set aside for lighting retrofits in City buildings:

- Match with BPA rebate (~50/50)
- Projects complete
  - City Hall
  - Idaho Falls Power
  - Law Enforcement Center
- Save \$40,000 per year
- Save 358,000 kilowatt-hours per year – enough for 27 homes
- *Mayor issued challenge to business community!*





## Business response to “Switch” challenge:

- Free energy audits
- Rebates/incentive programs identified
- Retrofits completed (contractor)
- 60 businesses participated
- Save >\$200,000 per year on electric bills
- Save >2.2 million kilowatt-hours per year – enough for 160 homes
- *5<sup>th</sup> highest savings of Northwest Public Utilities*

# Switch to Energy Efficiency!

*Participating businesses receive:*

- Window sticker “We Switched to Energy Efficiency”
- Plaque for participation
- Free advertising – newspaper, radio



**We Switched**  
*our thinking to energy efficiency!*

**Business:**  
BMC West

**Cost of Improvements:**  
\$17,841.00

**Rebate Received:**  
\$6,101.38

**Annual Energy Bill Savings:**  
\$4,919.72

**New Thinking:**  
*"My customers love the new lighting and I love the added savings!" Ben Masters, BMC Manager*

**We're Now Saving  
81,537 Kilowatt Hours  
Every Year!**

**Switch**  *your thinking.*

Come visit us at our new Energy Center located at 140 South Capital Avenue or contact Doug McGiffin at 208.612.8143 today to find out if you can start saving money and energy!

  
**Idaho Falls Power**



## 2008 Greatest Overall Savings

- Home Office & Manufacturing Plant
- 540,000 kWh savings per year (~40 homes)
- Save \$23,000 per year on electric bill
- Total cost \$70,008
- Rebate check \$15,592
- Simple payback – 1.8 years





## 2008 Greatest Percentage Reduction

- Reduced kilowatt hours of consumption by 75%
- 54,681 kWh savings per year (~4 homes)
- Save \$2,320 per year on electric bill
- Rebate check \$6,696





## Another Example...

- 484,581 kWh savings per year
- Increase lighting levels 5%
- Total cost \$83,670
- Rebate check \$48,355
- Simple payback – 1.1 years

**Dillard's** The Style of Your Life.



## Now that's stimulus!

- Outside contractors completed retrofits!
- \$422,000 injected into local economy (2008)
- \$165,000 in BPA rebates passed through
- Quick payback (generally less than 3 years)
- Improved lighting conditions
- Save money on electric bills into the future!

*2009 – saved more energy in the first quarter of this program than all of 2008!*



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