

Demand Side Management

March 2, 2010

Carbon Footprint Symposium 2010

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Agenda

- What is DSM and SaskPower Eneraction?
- Why does SaskPower need DSM?
- How SaskPower can help companies reduce their carbon footprint?
 - Commercial Geothermal;
 - Net Metering;
 - GreenPower;
 - Energy Performance Contracting; and
 - Commercial Lighting Incentive Program
- Future.



DSM & SaskPower Eneraction

DSM is Demand Side Management

- Alter consumption patterns of utility customers;

SaskPower Eneraction is the SaskPower DSM group

- Save Power;
- Save Money; and
- Help protect the environment.



DSM Value

- **Electrical Supply Value;**
- **Customer Value;**
- **SaskPower Corporate Value.**



Types of Programs

- Education and awareness programs;
- Energy efficiency incentive programs;
- Cooperative programs with other government departments;
- Legislation, regulations and standards programs aimed to mandate greater energy efficiency;
- Load management through demand response.



Commercial Geothermal

- Launched second quarter 2009;
- 15 per cent rebate of installed costs to maximum rebate of \$100,000;
- All projects need to be pre-approved by SRC.



Net Metering Program

- Net metering is available to customers that use environmentally preferred generation technologies up to 100 kW in size;
- Net Metering allows a business to record both the electricity they use and the electricity they generate;
- The Net Metering Program will pay a fee equivalent to 35 per cent of eligible installation costs up to a maximum of \$100,000 (i.e. maximum \$35,000) for projects.



GreenPower

- **GreenPower is an opportunity for companies to buy environmentally preferred power without putting up their own renewable generation;**
- **SaskPower has 22 megawatts of certified GreenPower;**
- **Buy blocks of 100 kWh at a cost of \$2.50;**
- **This has been a popular program and is currently sold out and will be reassessed in 2010.**



Commercial EPC Program

- EPC is Energy Performance Contracting;
- Facilities retrofit program with a guarantee cost-recovery;
- Large commercial and institutional customers:
 - 20 projects complete to date;
 - Renovated 170 buildings;
 - \$45 million invested in energy efficiency upgrades;
 - Over \$18 million in utility savings.



Commercial Lighting

- 28% of commercial customer's consumption is attributed to lighting;
- Market transformation goal;
- The first phase provides incentives on high performance T8's;
- See your local electrical contractor to apply.



Programs for 2010

- **Industrial Programs:**
 - Incentive-based program to retrofit facilities;
 - The program parameters have not been determined.
- **Plug Load Programs:**
 - Parking Lot Controller incentives;
 - Parking lots are generally on all of the time.



Carbon Footprint Impact

- The carbon footprint impact of a “typical customer”

Program	kWh Reduction	GHG Reduction (kg)
Commercial Geothermal	120,000	90,000
Net Metering	5,000	3,800
GreenPower	200,000	150,000
EPC *	1,300,000	1,600,000
Commercial Lighting	65,000	50,000

* the GHG reductions included natural gas reductions



Future

- Committed to aggressive targets;
- Expanding the suite of programs in the future;
- Explore partnerships;
- Future challenges and variables:
 - New technologies;
 - New regulations.



Questions?

SaskPower Eneraction
www.saskpower.com/eneraction

