



Strathcona
Industrial
Association

CAER

WINTER
2004

community awareness emergency response

NEWS

www.sia.ab.ca

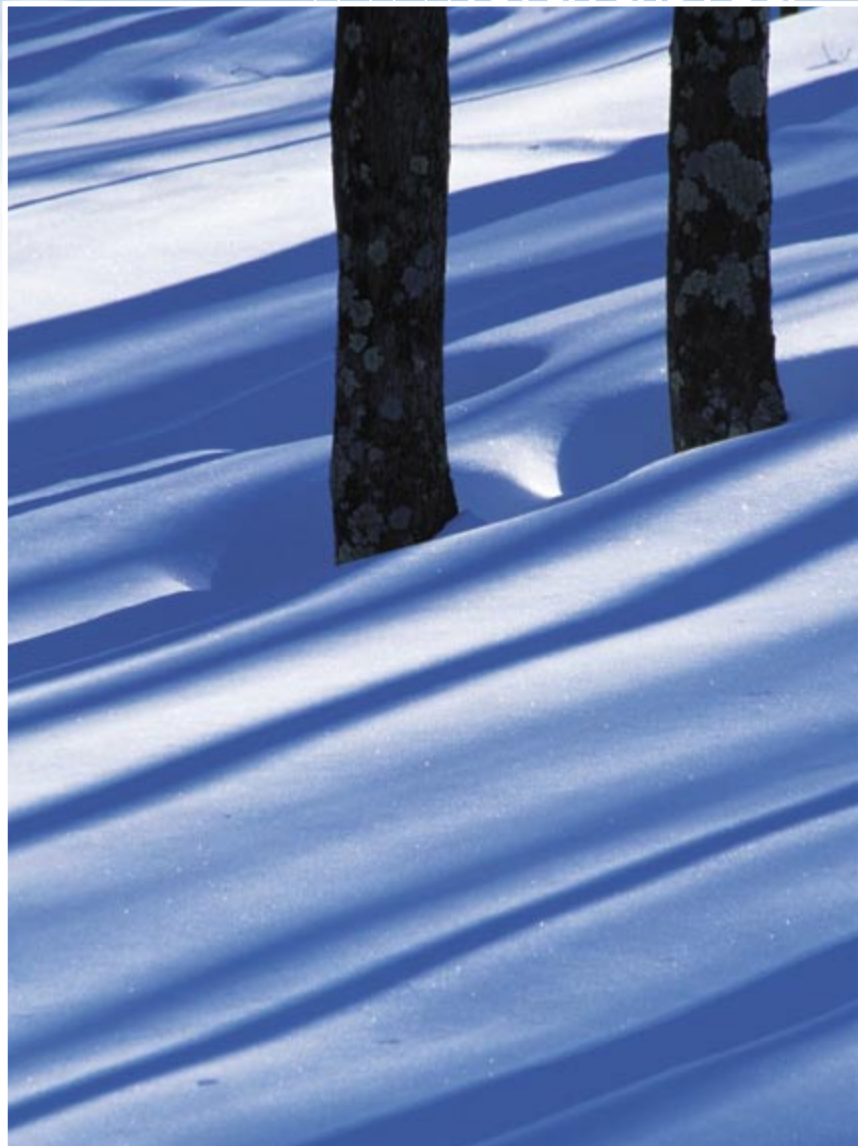
Working With You Every Day

The **Strathcona Industrial Association (SIA)** represents heavy industry with operations in east Edmonton and Strathcona County. Our members make products used by people each day, including plastic grocery bags, home insulation, engine oil, gasoline additives and recycled steel. They also provide power generation and wastewater treatment services.

Together, as the SIA, members operate an ambient air monitoring network; ensure emergency preparedness and planning; and increase awareness of industry in the community through Community Awareness Emergency Response, or CAER.

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Message from **SIA 2004 President**

Welcome to the winter 2004 edition of CAER News. The SIA Board members and I would like to take this opportunity to extend to you our wishes for a safe and happy holiday season.

2004 was a major milestone for the SIA, and it's worthwhile to reflect on our accomplishments. For thirty years, we've been providing a common voice for member companies on land planning issues, environmental matters and other interests regarding industrial operations in the area.

Through initiatives like Strathcona District Mutual Aid Assistance Program (SDMAP), the Ambient Air Monitoring Network and the Community Awareness Emergency Response (CAER) program, the SIA has been meeting its mission of working with the community and government to promote a safe and healthy working and living environment.

We were delighted to see that our final CAER Fair in 2004 attracted over 1500 people. This was a record attendance for us. It clearly demonstrates a high level of interest in SIA member organizations, but more importantly, it shows that many people in the area value the work that we do.

Thanks to the efforts of current and previous SIA board and committee members, we are in an

excellent position to strengthen the relationships we have with the community and government. We look forward to the future and know we will build on our success for the benefit of our employees and the surrounding community.

I extend my sincerest best wishes to you, your families, and friends for a healthy, happy and prosperous New Year.

Sincerely,

Tom Day, SIA President

*General Manager, Petro-Canada
Edmonton Refinery*

Technology Upgrade Reduces **Energy Consumption at AltaSteel**

In August, AltaSteel replaced its analogue regulation and power input control system with the most advanced digital control system available. This new control system has resulted in numerous improvements such as:

- Reduced electrical energy consumption
- Longer electrode life
- Shorter power-on time
- Increased productivity
- Increased functionality and operational benefits

AltaSteel's Electric Arc Furnace (EAF) creates 78 ton batches of liquid steel from 100% recycled scrap metal. Using temperatures greater than 5000 degrees C, a powerful electric arc melts the scrap.

Each batch of steel made from scrap consumes 45,000-kilowatt hours of electric energy. This is enough power to supply five homes for an entire year.

Initial performance to date indicates reductions in power-on time and a 10% reduction in electrode consumption. Optimization of the system will continue to maximize benefits.



Clover Bar and Rossdale Generating Stations

Over the last few years, Clover Bar and Rossdale generating stations have seen many changes. The biggest change, however, cannot be seen from the outside. Until 2004, Rossdale and Clover Bar operated as separate entities with separate staff and management teams. In late 2003, the process began to combine the two stations into one operating unit. Today, Clover Bar and Rossdale are operated efficiently by one team. Operators and maintainers are trained on both plants and are dispatched to either plant as required.

Clover Bar generating station was the first thermal generating station in Canada to receive ISO 14001 registration and Rossdale received its registration shortly afterwards. Several projects have been completed to reduce Clover Bar and Rossdale Generating Stations' impact on the environment. At Clover Bar, mechanical ball cleaning systems were installed to eliminate the need to use chemicals to clean the condensers.

Near the Clover Bar Generating Station, construction will soon begin on a 4.8 megawatt (MW) facility using landfill gas (methane) at the City of Edmonton's Clover Bar landfill. EPCOR Power Development Corporation expects to complete the \$8-million project by late spring of 2005. The electricity produced will be enough to power about 4,600 homes.

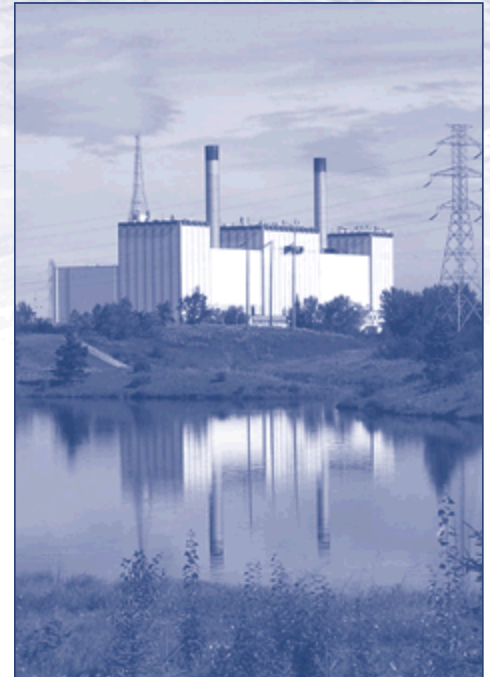
Methane is considered to be a potent greenhouse gas. Burning methane in a generating facility prevents it from being released into the atmosphere and turns it into a useful power source.

Safety is also a priority at Rossdale and Clover Bar. The combined stations just celebrated one year without a lost time incident. In fact, there has not been a lost time incident at the Rossdale Generating Station in over 15 years.

All of these achievements were accomplished while keeping both Rossdale and Clover Bar in top operating condition. The Canadian Electricity Association (CEA) gave Clover Bar's four generating units the top four rankings for availability and production reliability in Canada for 2000. Clover Bar and Rossdale have continued these high levels of availability but are no longer ranked by CEA. In 2002, the last year statistics are available, Clover Bar and Rossdale would have six of the top 10 units in Canada had they been ranked.

How Clover Bar Helped Clean Up a Shooting Range

In 1968, the City of Edmonton constructed a shooting range for the Police Department immediately east of the Clover Bar Generating Station. The range was in use until 2000 for a wide range of activities, including standard small arms exercises and advanced SWAT exercises. In 2004, the site was reclaimed by EPCOR and a number of environmental hazards were removed. Through a special screening process some 16.7 tonnes of lead and material were removed from the site and disposed of in a Class 1 landfill. Also, hazardous lead paint and asbestos were removed and disposed of properly prior to the removal of the firing range building. Today the site has been returned to its original condition as an open field.



QUICK FACTS

Commercial Operation Started

Clover Bar Unit 1 – 1970

Unit 2 - 1973
Unit 3 - 1977
Unit 4 - 1979

Rossdale Site – 1902

Unit 8 - 1960
Unit 9 - 1963
Unit 10 - 1966

Combined Capacity 881 MW

At peak operation, enough to power 900,000 homes

Employees: 54

www.epcor.ca

Recycling at Celanese A Winning Proposition

Recycling and waste reduction is an integral part of operations at Celanese. A number of recently completed projects focusing on energy reduction and wastewater recycling, demonstrates how wise use of resources benefits the environment and leads to operational efficiency.

Water used in manufacturing processes has been sent to the City of Edmonton Gold Bar Wastewater Treatment plant for a number of years. Through a series of modifications, storm water run-off from the plant, non-contact cooling water and utilities blow down streams previously sent to the North Saskatchewan River are now recycled for use in site production and utility operations.

"We are fulfilling a commitment we made to eliminate water discharged to the river and recover these streams for later use in our operations," says Environment Section Leader Arlene Howell-Pick. As a result of the recycling project, water drawn from the river is reduced by 30% and energy usage is also reduced. "It's a win-win situation," adds Howell-Pick. "We're using less water, returning less to the river, and we're saving money." The increased efficiency helps the plant's product and operations to be more competitive in global markets. Over 80% of the products manufactured at the Edmonton site are exported.

Celanese has been committed to the principles of the CCPA's Responsible Care® best practices in safety, health and the environment since the program inception nearly two decades ago.

Community Report Available

The Celanese Edmonton Plant produces an annual report highlighting health, safety and environmental performance, and involvement in the community.

For your copy of the report, please contact (780)471-0374 or email adminformation@celanese.com



Know your snow-safety trivia

1. A safety helmet can be worn for which winter sports?
2. Sunscreen should be worn in winter – true or false?
3. Are snow tunnels safe? Yes or No?

- Answers to Trivia:**
1. Skating, hockey, ringette, tobogganing, skiing, snowmobiling are a few.
 2. True. The sun's effects are strong in winter. Using sunscreen on unprotected skin is recommended all year round.
 3. No! You can become trapped if a tunnel collapses on you. Building a snow fort with an open roof is much safer.

Aware Bear is going snowboarding.

**Make sure he takes
the right winter gear!**

(circle the correct gear)



Winter is a time for playing in the snow and skating on the outdoor rinks. But with the fun also comes danger on the ice and snow.

- Watch your footing. Strathcona County Emergency Services says they respond to more minor injuries resulting from falls in winter than in any other season.
- Adjust your driving for winter. Slow down and keep a healthy distance between you and the vehicle in front.
- Avoid fire hazards. Read your fireplace's safety guidelines, inspect your chimney and have it professionally cleaned.

News From Imperial Oil

Imperial Oil Establishes New Research Facility

Imperial Oil is contributing \$10 million over the next five years to establish a new research facility, The Imperial Oil Centre for Oil Sands Innovation, at the University of Alberta. This is the largest investment ever made by Imperial in a university, and the largest single corporate cash commitment ever received by the university's Faculty of Engineering. Administered by the Faculty of Engineering, The Imperial Oil Centre's mandate will be to find more efficient, economically viable, and environmentally responsible ways to develop Canada's oil-sands resources, one of the largest crude oil deposits in the world.

Environment and Safety Award

Imperial Oil Strathcona refinery is the proud recipient of the Sherwood Park & District Chamber of Commerce 2004 Environmental Protection & Occupational Safety Award. Imperial was recognized for outstanding safety performance and practices at the Strathcona refinery. "We are proud to accept this award and honored that the business community in Strathcona County has recognized our safety achievements" says Dave Barrett, refinery manager.

Corporate Citizenship Report

Copies of Imperial's Corporate Citizenship report and the Strathcona refinery Safety, Health and Environment progress report can be viewed online at www.imperialoil.ca or by contacting Strathcona refinery's community relations office at 449-8571.

Fall CAER Fairs

The SIA hosted two Fall CAER Fairs, one on September 11th at the Soccer Centre on Victoria Trail, and one at Fire Station #1 in Sherwood Park on October 2nd. Thanks to our volunteers and everyone who participated, and we hope to see you in 2005!



City Exercises Emergency Plan

On October 19th, 20th and 21st the City of Edmonton held three, one-day exercises to test their **Emergency Operations Centre (EOC)** and their emergency plan. Each day saw a different EOC shift put through their paces in a challenging emergency scenario. A total of 160 people participated in the exercise over the three days including staff from the City of Edmonton, Capital Health, the Imperial Oil - Strathcona refinery, Strathcona County, St. Albert, Leduc, the Salvation Army, the Northern Alberta Radio Club and Emergency Management Alberta.

The exercise scenario involved an oil storage tank fire at the Imperial Oil Strathcona refinery. While the combined results of Edmonton Fire/Rescue and refinery emergency responders were able to restrict the spread of the fire, black smoke from the fire resulted in an evacuation plan for several adjacent neighbourhoods.

The exercise, which was confined to the City's EOC, had three objectives:

- To plan for a large scale evacuation
- To declare a local state of emergency
- To test the internal passage of information within the EOC.

By all accounts the exercise was a success, with many lessons learned and much previous training being validated.



