EL05-022

Kolbo, Delaine

From:

PUC Docket Filings

Sent:

Thursday, June 29, 2006 1:20 PM

To:

Kolbo, Delaine; Zebroski, Carol; Douglas, Tina (PUC); Forney, Heather; Van Gerpen, Patty

Subject:

FW: South Dakota CWA Public Comments Summary PWPT Presentation RE: EL05-022

Importance: High

From: Mary Jo Stueve[SMTP:MJSTUEVE@CLEANWATER.ORG]

Sent: Thursday, June 29, 2006 1:20:09 PM

To: PUC Docket Filings **Cc:** maryjo-s@msn.com

Subject: South Dakota CWA Public Comments Summary PWPT Presentation RE: EL05-022

Importance: High

Auto forwarded by a Rule

From South Dakota Clean Water Action on behalf of its 7,791 household members please file the attached Power Point Summary Presentation in the following Docket:

EL05-022 - In the Matter of the Application by Otter Tail Power Company on behalf of Big Stone II Co-Owners for an Energy Conversion Facility Permit for the Construction of the Big Stone II Project.

Clean Water Action has a long history of supporting citizen efforts nation wide to protect water resources, promoting sound solid waste management, pushing for agriculture policies that strengthen rural communities, and working for a transition to clean renewable energy.

Sincerely,

Mary Jo Stueve State Coordinator South Dakota Clean Water Action 231 S. Phillips Ave., Suite 250 Sioux Falls, SD 57104

Phone: 605-978-9196 Fax: 605-978-9019

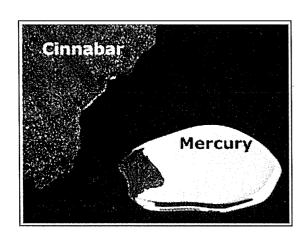
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Mercury and Coal Plant An Overview

Mary Jo Stueve Clean Water Action

What is Mercury?

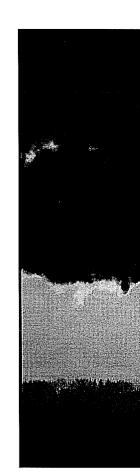




- 1. Known as quicksilv
- 2. A naturally occurring element in oceans, resoils.
- 3. Liquid at room tem
- 4. Used in a variety of products.
- 5. Toxic & persistent in environment.

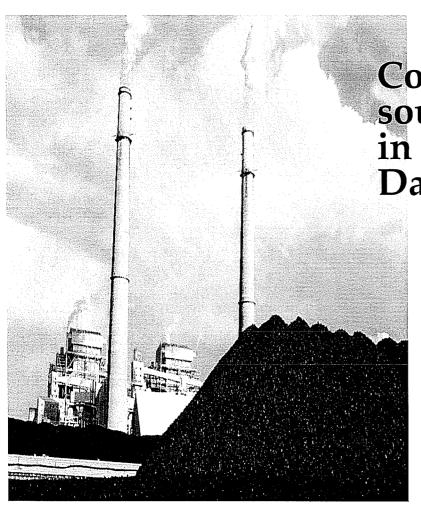
What are the sources of mean pollution in the region'

- 1. Energy: coal-burning power plants
- 2. Taconite processing (MN only)
- 3. Purposeful use:
 - Municipal solid waste combustion
 - Volatilization of disposed products
 - -Smelters that recycle cars, appliances



Coal-burn

Mercury pollution from coal



Coal plants are the lasource of mercury point Minnesota and Scalar Dakota.

MN: 1,700 lbs/y

SD: Big Stone emits 189 lbs/y Big Stone II we emit 210 lbs/ye



Number source of m exposure humans is consump

Bioaccumulation



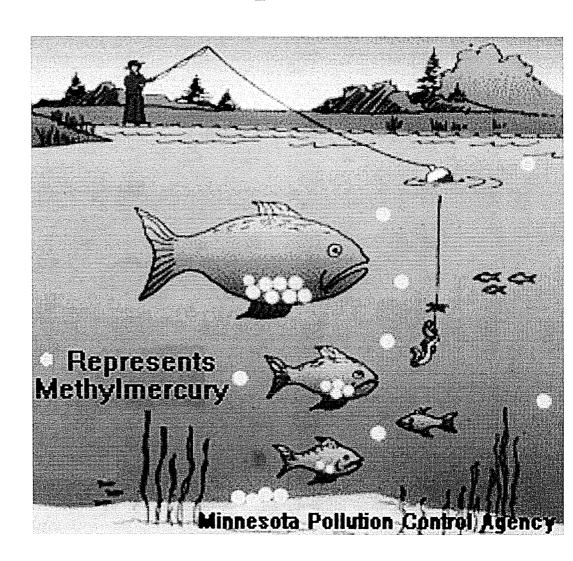
Mercury is deposited in lakes where bacter convert it to toxic methylmercury (N

MeHg is taken up by tiny animals and pla

MeHg then accumulates in the tissues of f other organisms.

Wildlife like eagles, osprey, loons, turtles, otters and other fish-eaters are also affecte

Who is at the top of the food chain



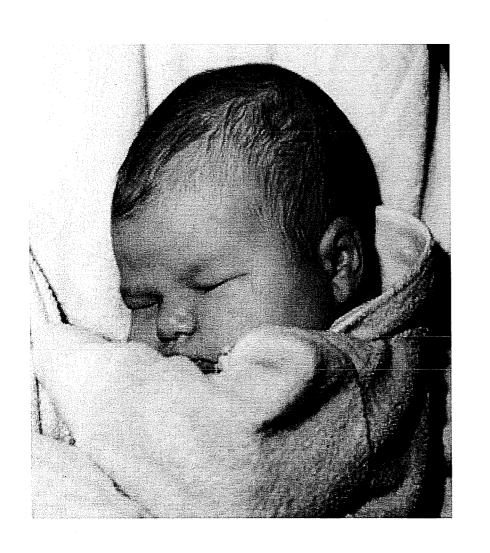
Fish Consumption Adviso

- All Minnesota waters are contar
- MN Dept. of Health has issued a wide fish consumption.
- SD has advised against consumite from 10,000 acres of its lakes.
- Fish consumption advisories for SD waters at Dept. of Health.

Problem with Methylmerc

- Potent neurotoxin.
- Like lead, mercury effects are be detected at lower and lower leve
- MeHg passes through the placen the developing fetus and is also on to nursing infants in breast m (Breastfeeding is still best for babies.)

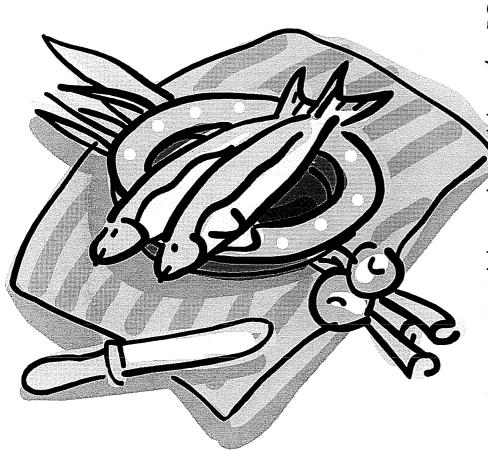
Newborns at Risk



Per EPA esti 1 in 10 U.S. wor mercury body b that could put h risk for adverse development.

Could affect an 630,000 newbor

Fish are Healthy



Source of provitamin D & fatty acids

Essential for infant brain development

Contributes tand mental h

Don't stop eating t

What can we do?

Heed Early Warnings

Choose the Safest Solutions

Exercise Democracy

Heed Early Warning Sig

- 1. MN and SD have fish consumpt advice.
- 2. Mercury is a known neurotoxin rates of children with learning disabilities are on the rise.
- 3. There should be more public awabout the risks of eating certain more efforts to eliminate the contamination.

Choose the Safest Solution

- 1. Smart Fish Choices
- 2. Clean Energy

Smart Fish Choices

Follow these guidelines:

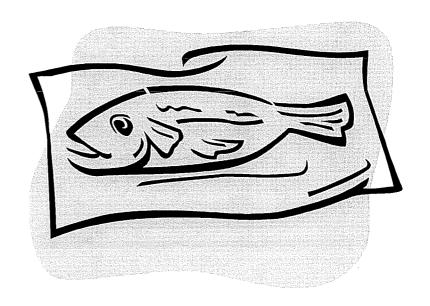
- Eat smaller fish and panfish rather than predator fish.
- Consider total fish consumption.
- •Limit intake of some fish for pregnant/nursing women and young children.
- •Trimming fat and cooking will not reduce mercury in fish.



IATP's Smart Fish Calcul

Tool to estimate "safe" consumption level per EPA guidelines

Go to www.iatp.org/foodandhealt



Clean Energy: Buy Wind P



Replace fossil-fue energy with renev sources like solar

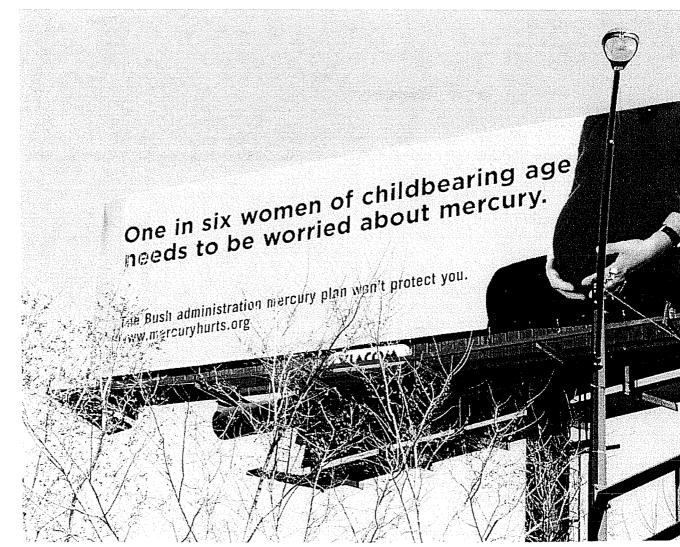
Support renewable by choosing wind from your local u

The "Saudi Arabia of V

- South Dakota ranks 4th in the U.S renewable energy potential.
- But as of January 2004, the state has only 44.48 megawatts of installed projected wind energy capacity, and mew wind projects planned.
- A new coal plant eliminates the potential for economic developm from renewable energy.

Exercise Democracy

- 1. Submit comments on Environal Impact Statements.
- 2. Attend public hearings.
- 3. Send a letter to your local paper
- 4. Vote! SD Public Utility
 Commissioners are elected stawide.



We must prevent mercury pol to protect our children