

Association of County Planning & Zoning Administrators

October 7, 2009
Commissioner Sandy Layman





- Iron Range Resources
- Leadership & Support Infrastructure
- Taconite Mining
- New Value-Added Iron Projects
- Nonferrous Opportunities
- Future









MINING IS OUR HISTORY 100 Years & Counting

1866 – 1st Report of Iron Ore

1892 – 1st Shipment of Iron Ore

1922 – 1st Taconite Mining Operation

1953 – Largest Annual Iron Ore Shipment

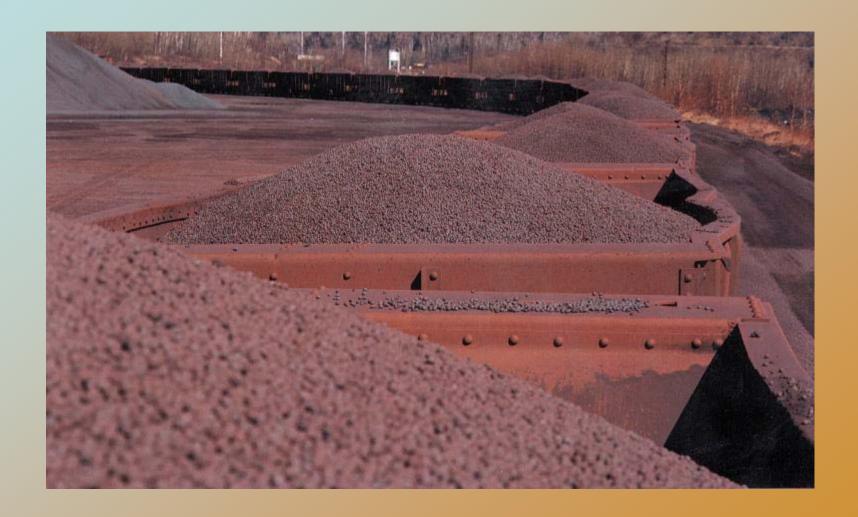
2003 - Mesabi Nugget Pilot Plant

2008 - 40,599,311 Gross Tons





IRONS IN THE FIRE Taconite







Minnesota is home to six taconite operations

Mesabi Iron Range

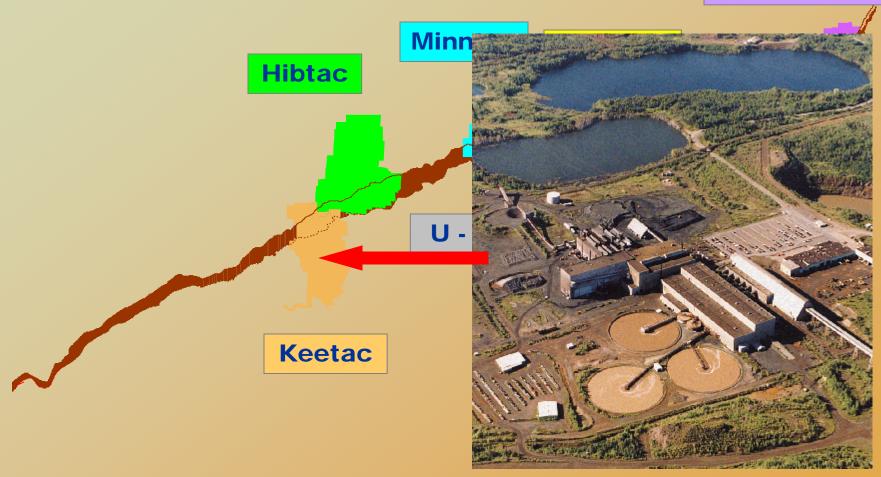






Minnesota's Six Taconite Operations

Northshore

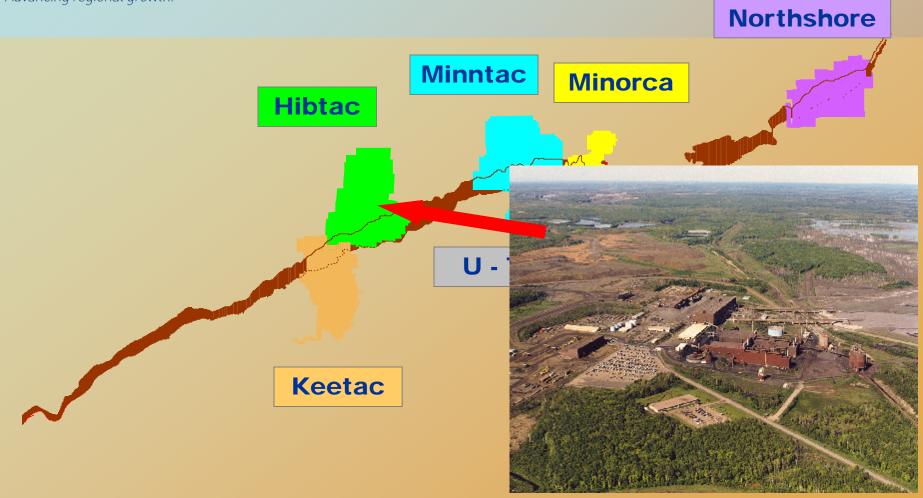


U.S. Steel - Keetac opened 1967





Minnesota's Six Taconite Operations

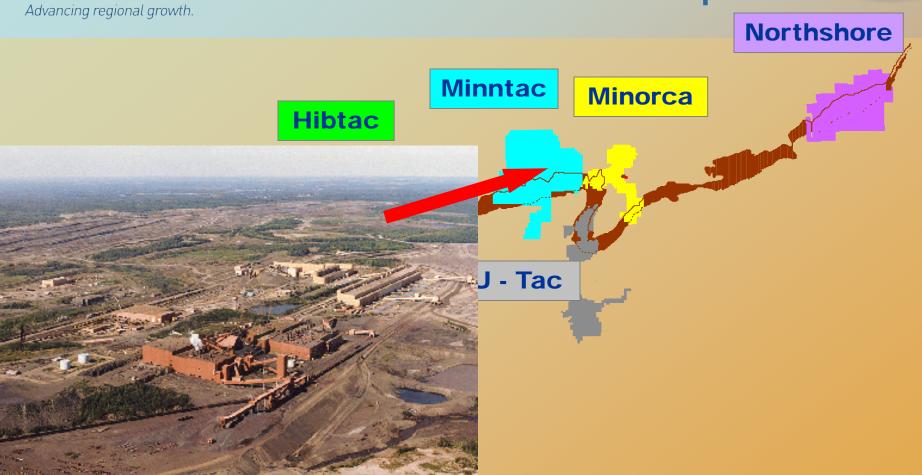


Hibbing Taconite opened 1976





Minnesota's Six Taconite Operations

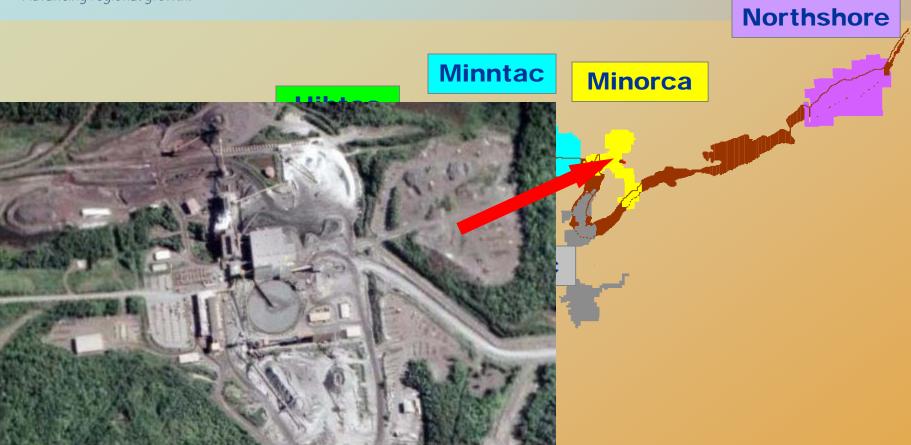


U.S. Steel - Minntac opened 1951





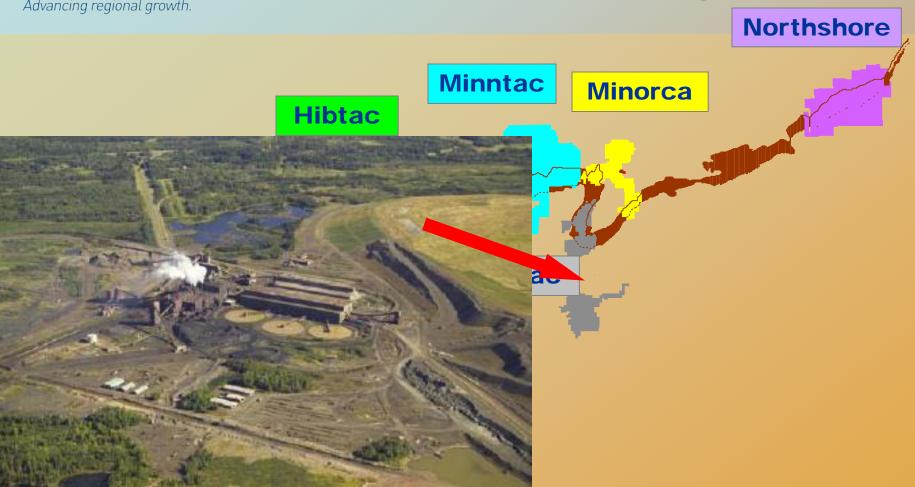
Minnesota's Six Taconite Operations



ArcelorMittal Minorca opened 1977







United Taconite opened 1965





Minnesota's Six Taconite Operations



Northshore

Northshore Mining opened 1951







Employees









Economic Impact of Iron Mining on Minnesota's Economy

- » Wages & Benefits
- » Purchases
- » Royalties
- » Taxes

\$1.5 billion



IRONS IN THE FIRE Infrastructure





IRONS IN THE FIRE Experienced Suppliers & Vendors











LAKEHEAD CONSTRUCTORS INC.

















IRONS IN THE FIRE Trained Workforce











Transforming pits and piles into lakes and landscapes Large Scale Projects of the Mesabi Range Area: Project Status as of 1/7/09: Site Defined Project Proposed for Environmental Review Draft EIS Submitted EIS Record of Decision Issued Environmental Permits Issued Copyright 2008, State of Winnesota, DRAFT, NS/DR, Tim Pastika, mol7_pripul Mesaba Deposit Development PolyMet: Northmet Deposit Development Hibbing Taconite: Air & Water Quality Per United Taconite Essar Steel Minneso Draft 1/7/09 The compliation of information is not a legal/procuration map or except and in the information are also as which information is not ordinate formation are accepted for the formation and interference for the information in the information in the information is to in use of the information in the information in the information is to in use of the information information in the information in





Large Scale Developments 2005 - 2011

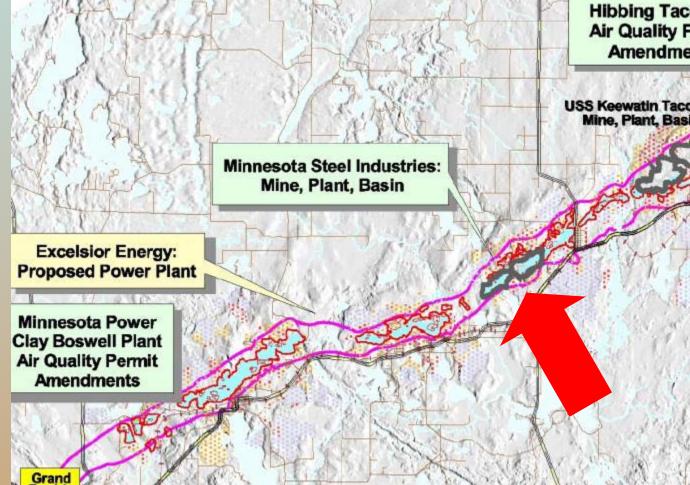
Excelsior Energy - Mesaba Energy Project	\$2,000,000,000
Essar Steel Minnesota, LLC Nashwauk	\$1,650,000,000
Duluth Metals, Ely	\$800,000,000
Franconia Minerals – Birch Lake & Maturi Extension	\$616,000,000
PolyMet's NorthMet Project, Aurora & Hoyt Lakes	\$601,900,000
Keewatin Taconite Plant Expansion	\$300,000,000
Mesabi Nugget & Mesabi Mine Hoyt Lakes	\$400,000,000
MP Allete Clay Boswell Unit 3 Retrofit	\$200,000,000
Laurentian Energy Project for Hibbing and Virginia	\$80,000,000
Magnetation Inc., Keewatin	\$7,300,000

Total \$6,647,900,000



IRONS IN THE FIRE The Iron Range's 1st Steel Plant







IRONS IN THE FIRE The Iron Range's 1st Steel Plant





Location: Nashwauk

Status: Financial Close Pending

Start date: 2011

Investment: \$1.65 billion

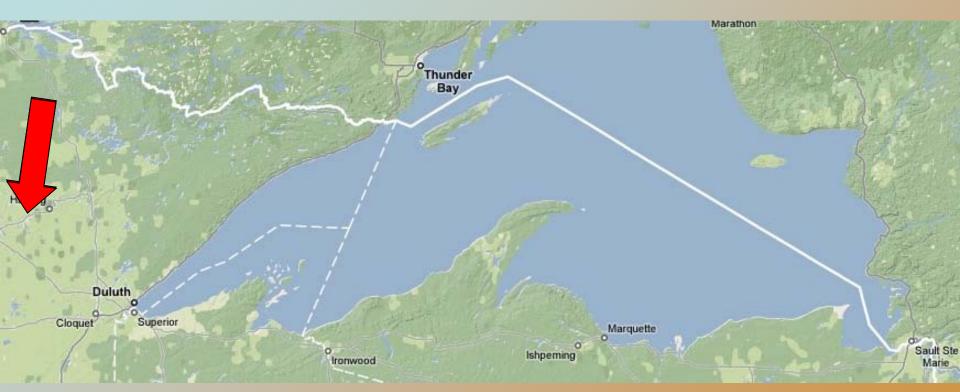
State of Minnesota Investment: \$71.9 million

Permanent jobs: 700

Construction jobs: 2000



IRONS IN THE FIRE The Iron Range's 1st Steel Plant



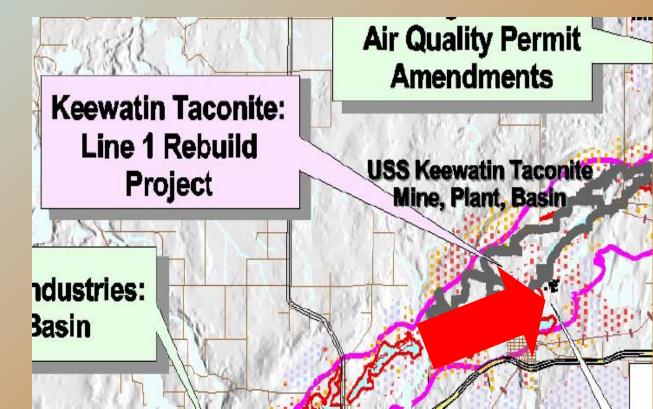




IRONS IN THE FIRE Keewatin Taconite Line 1 Rebuild



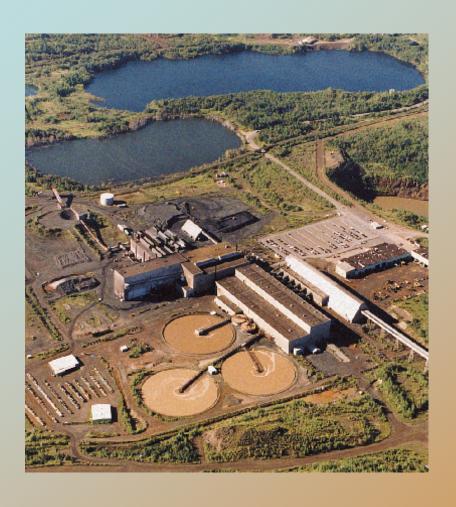
Keewatin Taconite





IRONS IN THE FIRE Keewatin Taconite Line 1 Rebuild





Location: Keewatin

Status: Permitting Process

Start date: Fall 2010

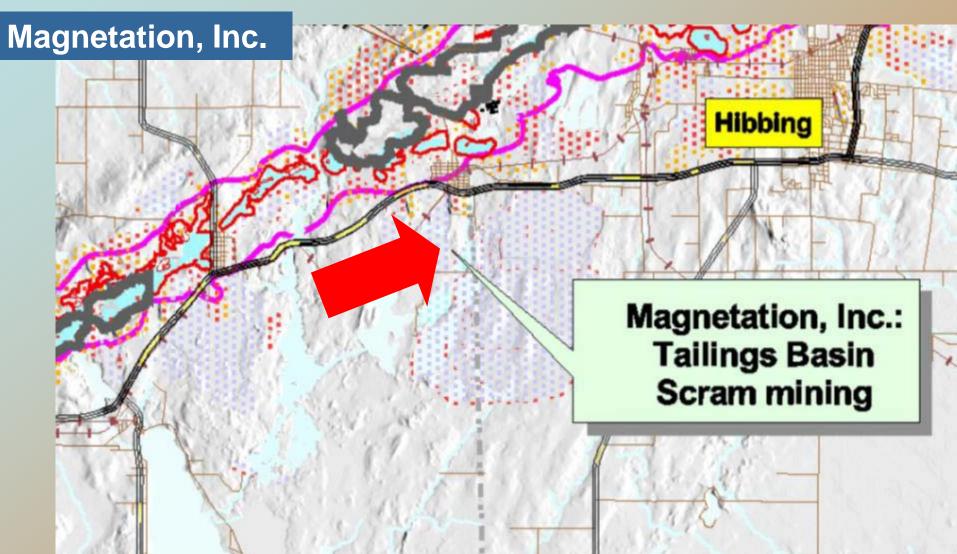
Investment: \$300,000,000

Permanent jobs: 75

Construction jobs: 500



IRONS IN THE FIRE Magnetation





IRONS IN THE FIRE Magnetation, Inc.





Location: Keewatin

Status: Construction complete

Production begun

Start date: 2009

Investment: \$5,500,000

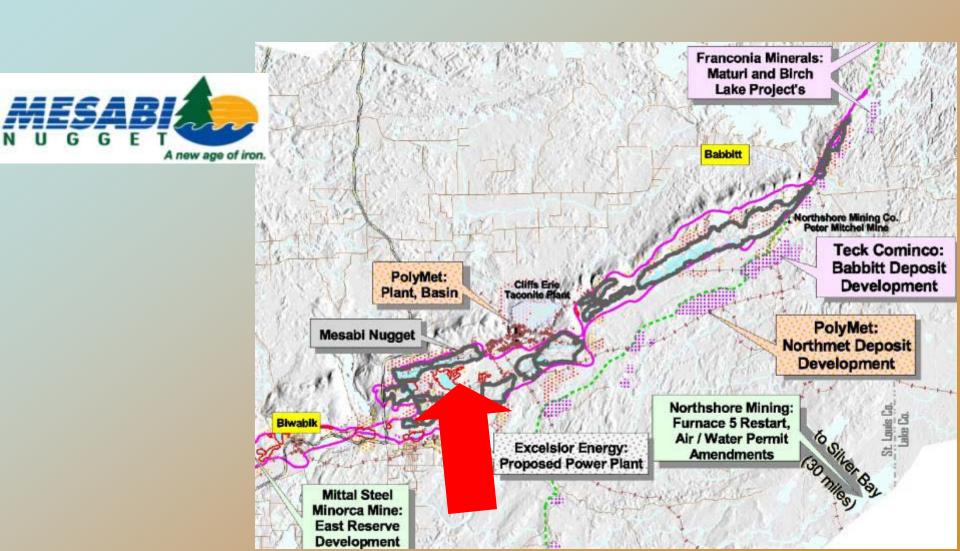
Permanent jobs: 45

Construction jobs: 15











The World's 1st Commercial Iron Nugget Plant





Location: Aurora/Hoyt Lakes

Status: Under construction

Start date: 2009

Investment: \$270 million

State of Minnesota Investment:

\$42.5 million

(\$24.5 million Iron Range Resources & \$18 million DEED)

Permanent jobs: 65

Construction jobs: 500





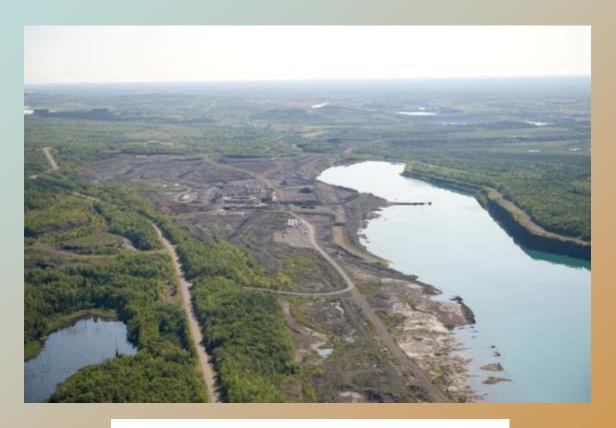
The World's 1st Commercial Iron Nugget Plant







IRONS IN THE FIRE Mesabi Nugget - Pit

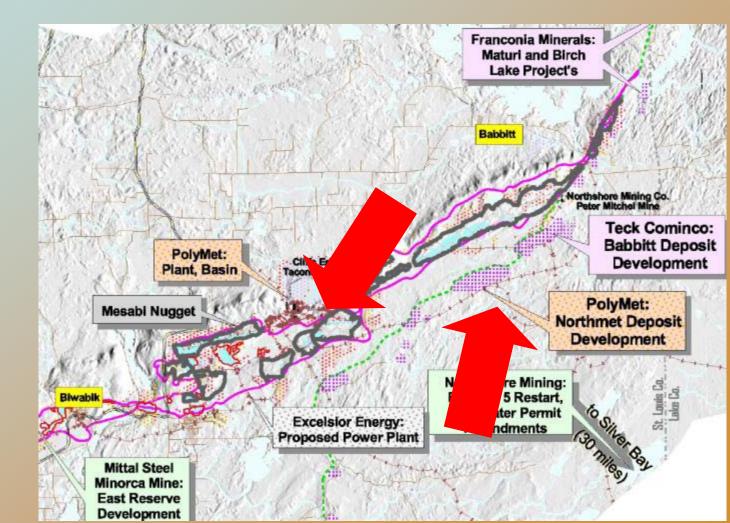






IRONS IN THE FIRE PolyMet







IRONS IN THE FIRE Workforce

Location: Hoyt Lakes

Status: Project proposed for environmental review

Investment: \$602 million

State of Minnesota Investment: Facilitated tailing basin acquisition

Permanent jobs: 400

Construction jobs: 250

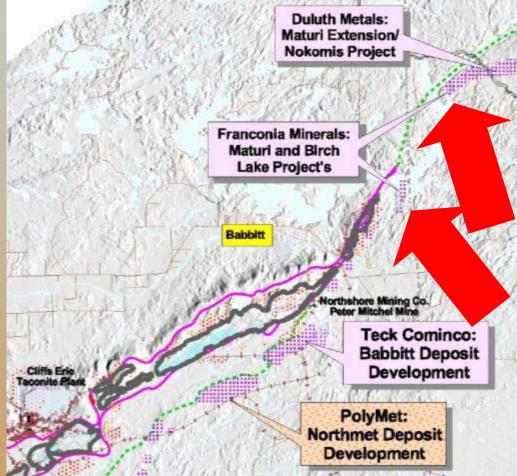






IRONS IN THE FIRE Franconia Minerals









Location: Babbitt

Status: Sites Defined

Investment: \$616 million

State of Minnesota Investment: \$2.5 million

(\$1.25 million Iron Range Resources & \$1.25 million DEED)

Permanent jobs: 550

Construction jobs: 800









Governor's Committee on Minnesota's Mining Future

2004

- All Types of Mining
- Ferrous Industry
- Non-ferrous Industry
- Industrial Minerals Industry



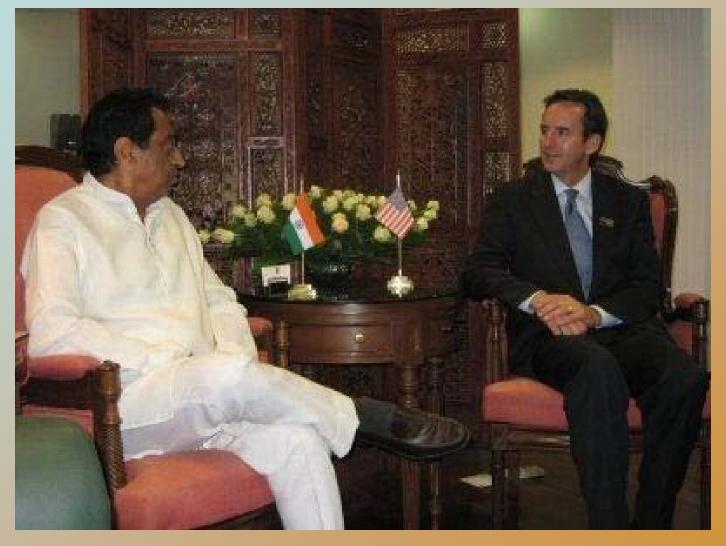


IRONS IN THE FIRE China





IRONS IN THE FIRE India





IRONS IN THE FIRE Global Partners















Steel Dynamics, Inc:



IRONS IN THE FIRE Non-Ferrous Global Partners





Encampment Resources LLC





CONCLUSION:

As a result of these and other economic development initiatives, northeastern Minnesota is poised for an economic recovery that will revitalize the region and boost the entire state.





For more Information:



RangeReadiness.com



LVP.com







RON RANGE CSOUTCES

Advancing regional growth.

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