

## Sodium Chlorate Plant Brandon, Manitoba

Don Boonstra Chemtrade January 24<sup>th</sup>, 2020



## Chemtrade



2018 Sales: \$1.6 Billion

Domicile: Canada

TSX: CHE.UN

**Employees:** 1,400

Facilities: +60 in North America, 1 in Brazil

Brandon: Largest Sodium Chlorate plant in the world

320,000 tonnes per year

100% of product exported out of province

## **Sodium Chlorate**



Customers: Pulp and Paper

Use: Bleaching of wood pulp

Requirement: Lowest delivered costs

How: 1) Raw materials

**Electricity and Salt** 

2) Economies of scale

Large investments, long term thinking

Difficult geography and weather

3) Transportation

100% of product exported out of province

75% of product to US

## **Brandon Plant**



#### Reaction:

$$NaCI + 3H_2O => NaCIO_3 + 3H_2$$

$$5200 \text{ kW/MT}$$

### Electricity consumed

- 223 MVa / year (~5% of the provincial load)
- ~\$70,000,000 / year
- 70% of raw material variable cost

### Rate increase impact

- 1% rate increase: >\$700,000/year cost increase
- 10% decrease in production volume → \$7,000,000 reduction in Hydro Revenue

# **Brandon – Sodium Chlorate** *Celebrated 50 years in 2018*



\$135 Million: Total direct economic benefit of Chemtrade's Brandon plant in 2018.

• 67%: Portion of Chemtrade's direct economic benefit that remains in Manitoba.

\$90 Million: Increased planned capital expenditures would provide an additional

economic benefit. Over the next five years.

**\$2.7 million**: Municipal and Provincial taxes paid by Chemtrade in 2017.

**\$10.1 million**: 2018 Payroll

\$139,000: Average 2018 salary of Chemtrade's workforce compared \$84,000 median

Manitoba family income in 2016.

7<sup>th</sup> largest Employer in Brandon.

## **Competition is not resting**



- Quebec has announced a 0.0% increase effective April 2020.
- BC Hydro has proposed at 1.0% decrease effective April 2020.
- IHS Global Bleaching Report indicates Cash Costs to produce chlorate in US producing locations has declined >8% in the past 24 months due to decline in electricity costs (IHS Global Bleaching Report, Nov. 2019)
- Chlorate producers announced the following shutdown & capacity addition decisions in 2018 2019:
  - Nouryon/Eka permanently shut 118KMT of capacity in Valleyfield, QC in Q1, 2018
  - Erco permanently shut 40KMT of capacity in Saskatoon, SK effective Q3, 2019
  - Kemira expanding plant in Eastover, SC by 18KMT effective Q1, 2020 for \$20M
  - Erco expanding plant in Buckingham, QC by 5KMT effective Q4, 2020 & expanding plant in Valdosta, GA by 11KMT effective 2021 for a combined \$27M

## **Position on Efficiency Manitoba**



### Competitive, stable & predictable rates are important

- Our industry is Energy Intensive & Trade Exposed.
- Our historical advantages of competitive electricity and scale are being eroded.

### Industry is an important component of the savings objective

- Per MIPUG response PUB/MIPUG-8b, Industry is planned to contribute >50% of the incentive based electric savings in the initial 3 years.
- With an average budget allocation of 20%, Industry opportunities are expected to represent the lowest acquisition cost

### Our objective is that we participate and that our net cost is neutral

- Efficiency Manitoba should target opportunities that balance the greatest impact with the lowest acquisition cost – Efficient.
- Selected projects should be economically justifiable.
- Our barrier is like others in Industry, our capital to invest is constrained and competitive.

## **Summary**



- The world is changing fast.
- Competitive advantage of Manitoba/Canada for energy intensive industry is eroding.
- It is important to maintain competitive, predictable & stable rates.
- Selected projects should be those that are most efficient and economically justified.
- Industry is a key partner recognize that capital to invest is competitive.