



## **A First for Saskatchewan: MLTC Bioenergy Centre**

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# Outline

1. Overview
2. Environmental Considerations
3. Social Considerations
4. Governmental Considerations
5. Lessons Learned

# Overview

- Meadow Lake Tribal Council (MLTC)
  - Buffalo River Dene Nation
  - Flying Dust First Nation
  - Birch Narrows Dene Nation
  - English River First Nation
  - Canoe Lake Cree Nation
  - Clearwater River Dene Nation
  - Makwa Sahgaiehcan First Nation
  - Waterhen Lake First Nation
  - Ministikwan Lake Cree Nation



# Overview

- NorSask Forest Products LP (NorSask)
  - Canada's Largest 100% Indigenous-owned sawmill
  - Located 9 km east of Meadow Lake, Saskatchewan
- MLTC Bioenergy Centre
  - Saskatchewan's first bioenergy facility
  - Operates in conjunction with NorSask
  - Construction began April 2020
  - Commissioned October 2022



**MLTC**  
**BIOENERGY**  
**CENTRE**

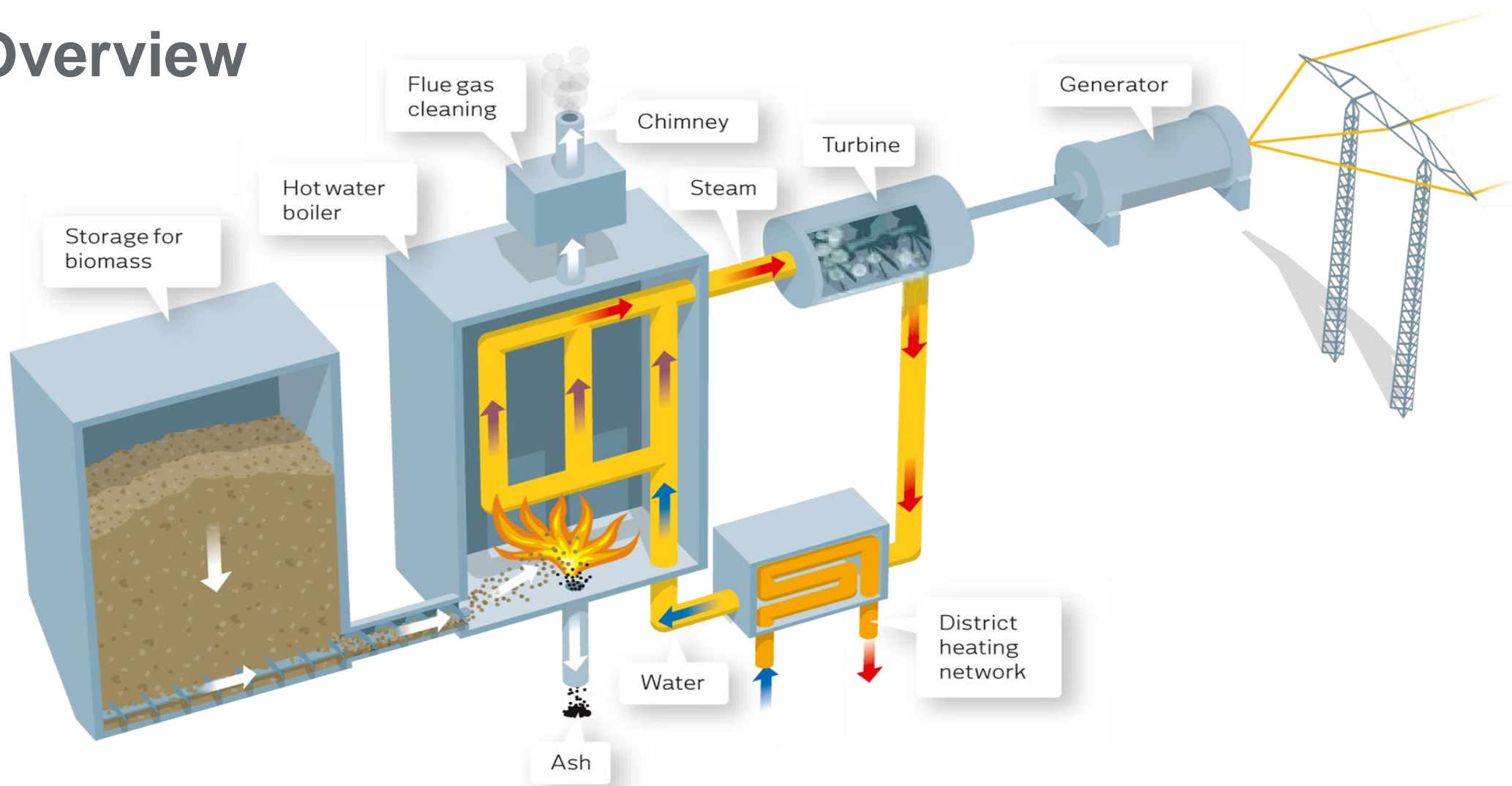
# Overview

- ~60,000 tonnes of NorSask's wood residues used as fuel
- Renewable Power:
  - ~ 8.3 megawatts (MW)
    - ~1.7 MW consumed by facility
    - ~6.6 MW sold to SaskPower
- Heat
  - Supplied to NorSask's new continuous kiln replacing two natural gas fired kilns



Source: Mistik Management Ltd.

# Overview



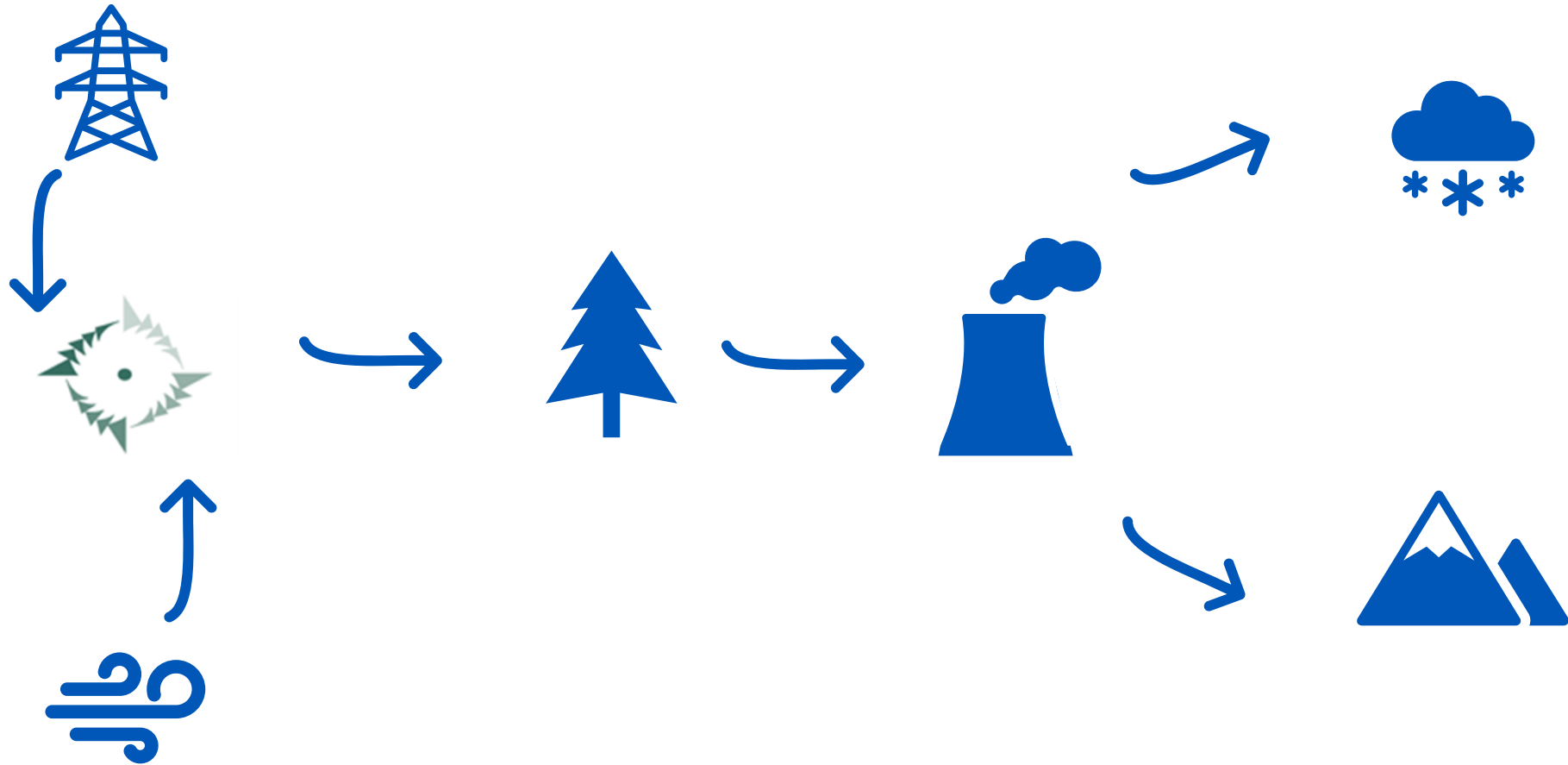
# Environmental Considerations

- Generates renewable electricity from a waste product
- Greens the Saskatchewan power grid
- Reduces natural gas use
- Decreases greenhouse gas emissions (GHGs)
- Improves air quality



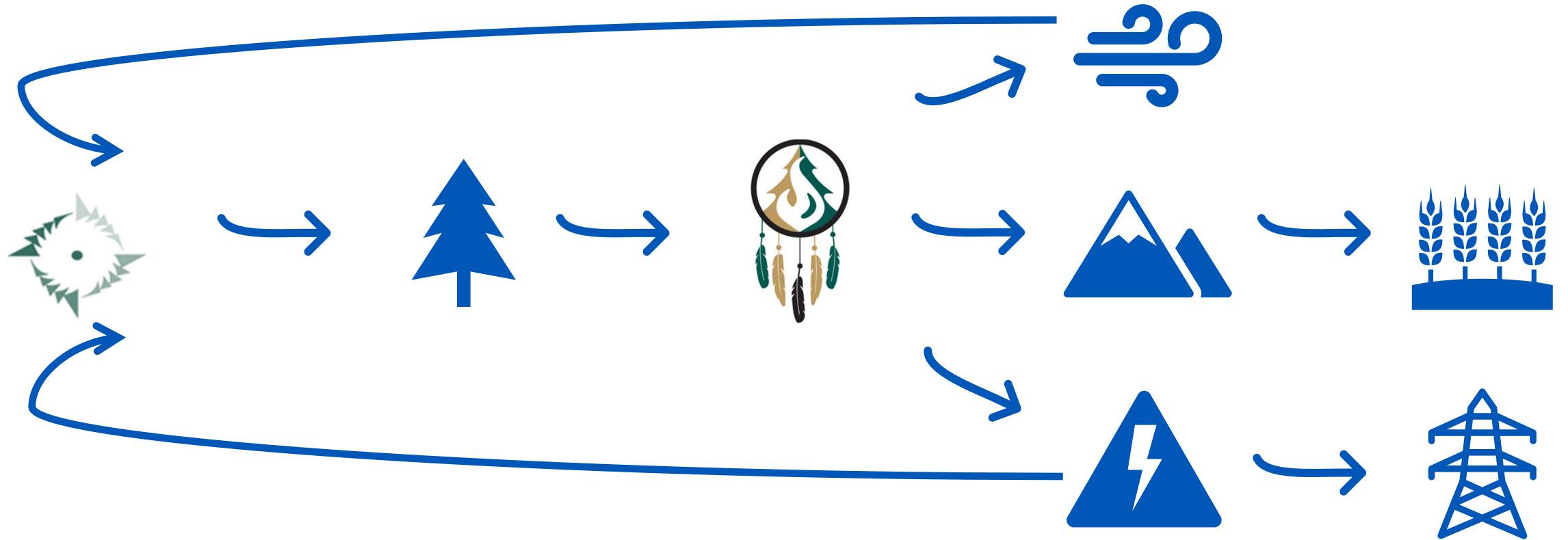
Source: MLTC Bioenergy Centre

# Environmental Considerations

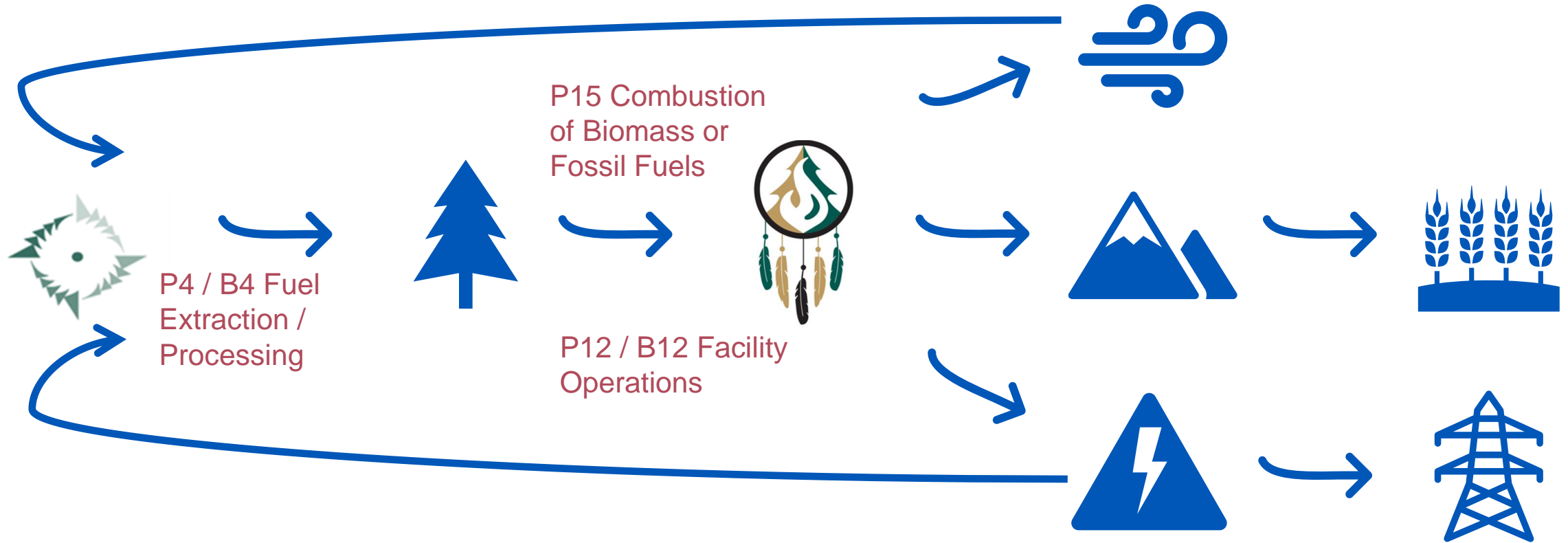




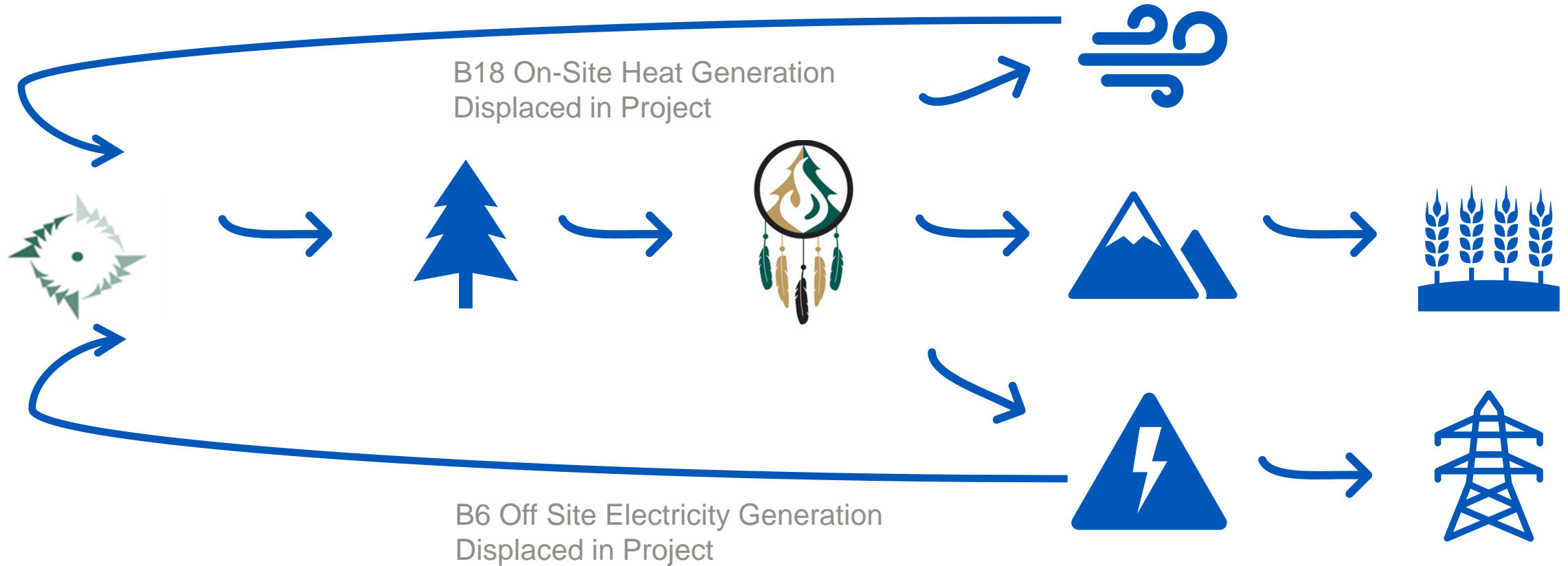
# Environmental Considerations



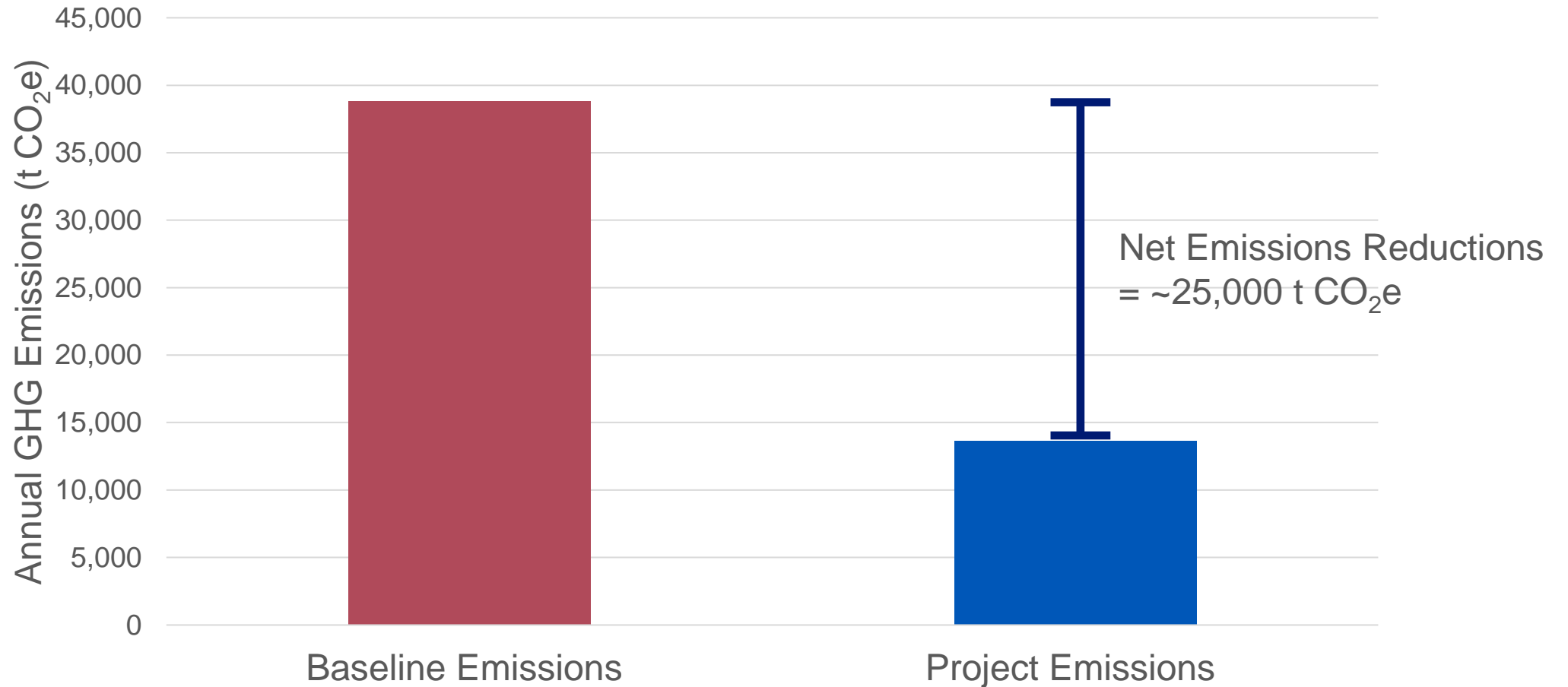
# Environmental Considerations



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# Environmental Considerations



# Social Considerations

- Improves economic outcomes via Indigenous-First Procurement Policy
  - Jobs
    - Construction: 50 full-time equivalent (FTE)
      - ~40% Indigenous
      - ~10% female
    - Operations: 15 permanent FTE
  - Construction Contracts
    - ~ In excess of \$35 million won by Indigenous companies



Source: MLTC Bioenergy Centre

# Governance Considerations

- 100% Indigenous-owned
- Self-managed by MLTC
- Financial benefits of 25 year sale of electricity through a Power Purchase Agreement flows to MLTC's First Nations



Source: MLTC Bioenergy Centre

# Lessons Learned



## What Worked

- Owned and operated by MLTC First Nations for MLTC First Nations
- Indigenous-First Procurement Policy
- Progressive permitting

## Learnings

- Supply chain challenges during COVID-19
- Design engineering considerations for Saskatchewan climate
- Learning related to project management and energy production projects



# Questions?



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