ARCTIC RENEWABLE ENERGY

BIOMASS FUEL

as a replacement for diesel!

IN NORTH AMERICA’S ARCTIC

DIESEL IS KING

THE IMPACT OF DIESEL

- **ENERGY MIGRANTS**: The high cost of diesel fuel forces some Arctic residents to leave their ancestral homes.
- **BUDGET STRAIN**: The Government of Nunavut spends 72% of its annual budget on energy, limiting other funds.
- **BLACK CARBON**: Diesel generators create black carbon, which melts ice and causes global warming.
- **AIR POLLUTION**: Air pollution from diesel generator has been linked to higher rates of asthma and respiratory issues.

ALASKANS PAY NEARLY DOUBLE THE NATIONAL AVERAGE FOR ENERGY.

ONE DIESEL REPLACEMENT IS BIOMASS FUEL

fuel developed from organic materials

IN CANADA

- Biomass is the THIRD largest renewable source of Canada’s electricity.
- 14 biomass heating systems in Northeast Territories reduced heating oil consumption by six million litres. 75% of the heat demand inWhites are comes from chipped wood from beetle-killed trees.

IN ALASKA

More than 100,000 words of wood used annually for home heating statewide.

HOW TO IMPROVE THE USE OF BIOMASS IN THE ARCTIC

**PLANNING & POLICY**

Create and enforce biomass plans in building codes
Conduct feasibility studies by engineers
Include biomass in policy targets & whitepapers

**COMMUNITY ENGAGEMENT**

Provide opportunities for employment
Educate through school-based programs
Create community support for biomass fuel
Understand local history of organic materials

**FINANCING & TECHNOLOGY**

Integrate with other renewable energy
Stimulate 100% community ownership of biomass monitoring systems
Use biomass to heat greenhouses for food

MORE CAN BE DONE

to use biomass fuel alongside renewable energy electricity

**PUBLIC FUNDING**

Financial assistance for innovation and installation of biomass fuel

MORE ACCESS TO **STARTUP CAPITAL**

through grants, public private partnerships, and green banks

**FOLLOW-UP SUPPORT**

and community training sessions on biomass heating equipment is installed.

Share success stories and data across **REGIONAL AND INTERNATIONAL NETWORKS**.

BOTTOM LINE: WHAT IS NEEDED?