

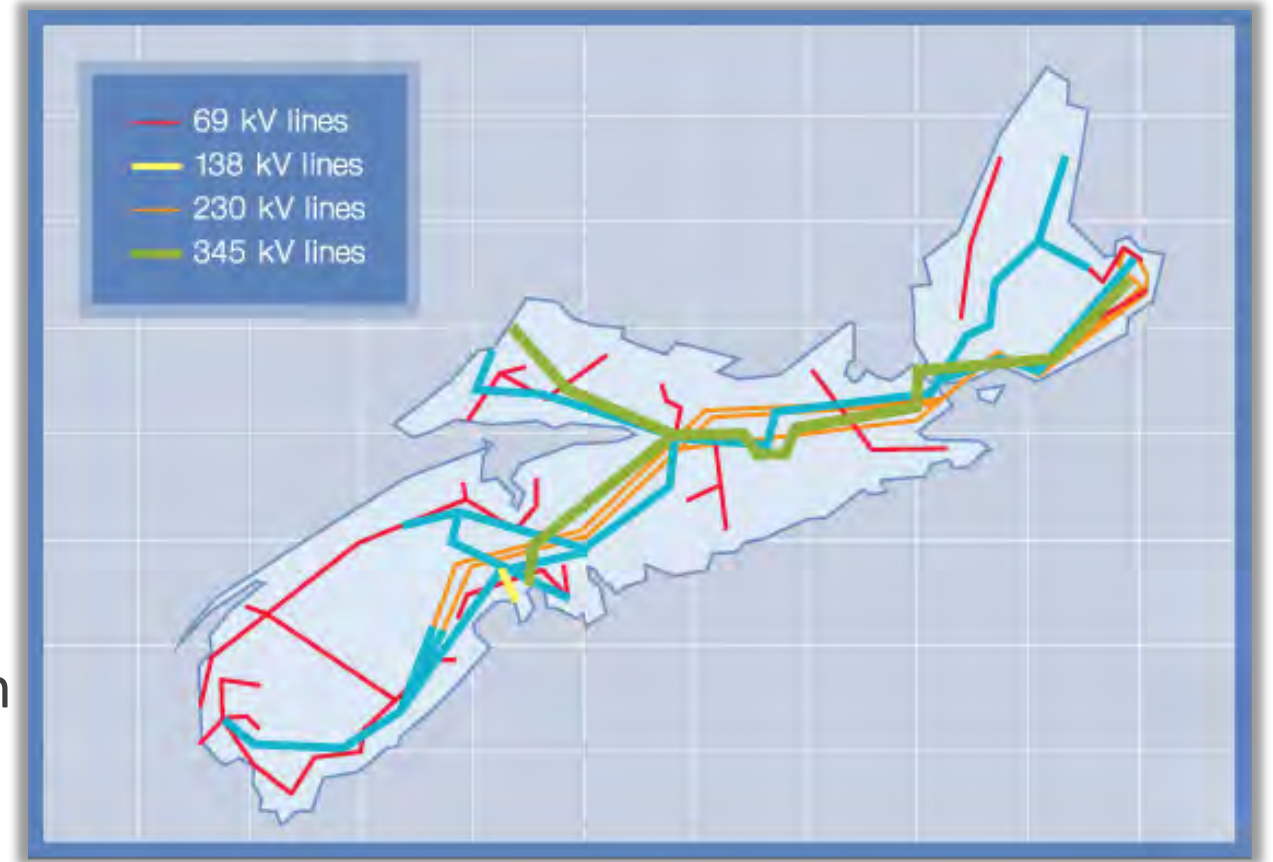
Western Regional Enterprise Network

*Western Region Energy Investment Plan
September, 2020*



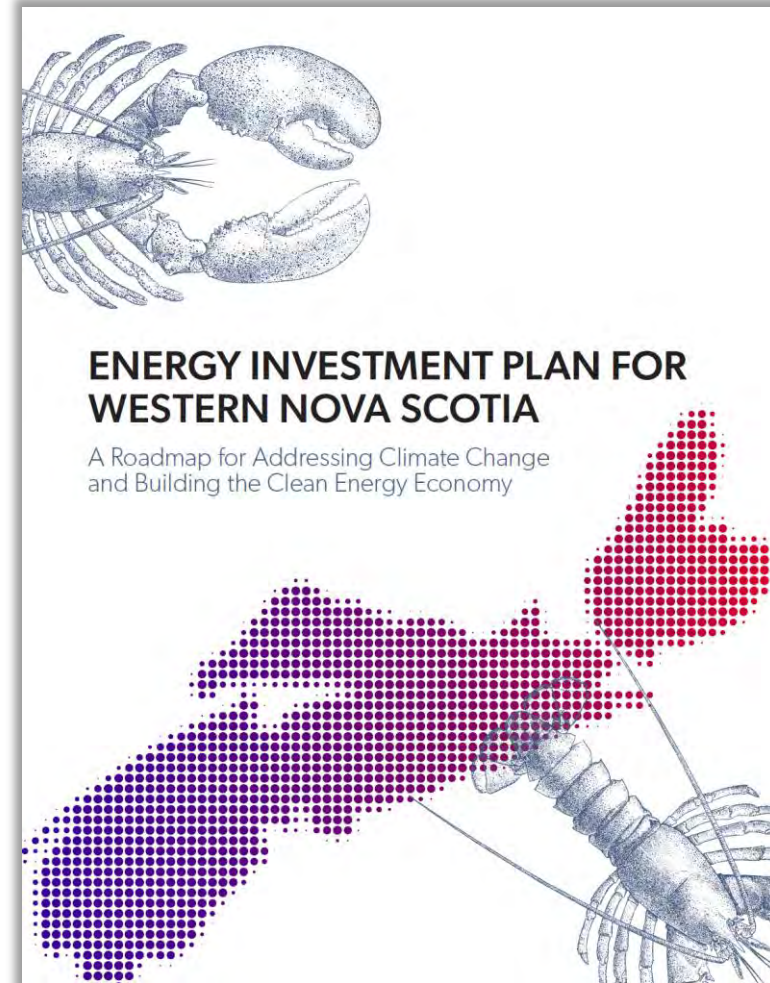
Energy Planning Rationale

- Regional Grid Capacity is limited
 - 69kV transmission lines
- Substantial Green Energy Opportunities
- Town of Bridgewater
 - 2016 cost of energy: \$89 million
 - Projected rise to \$206 million in 2050
 - Efficiency models could save \$2 billion over 32 years leading to 2050



Western Region Energy Investment Plan

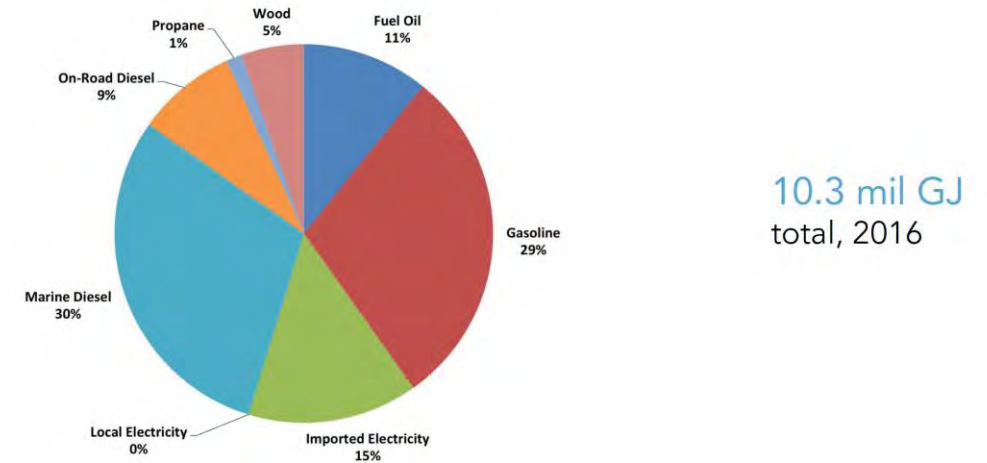
- Consultants: Sustainable Solutions Group (SSG)
 - Baseline Energy Consumption
 - Energy Efficiency
 - Green Energy Generation & Storage
 - District Energy & Heating



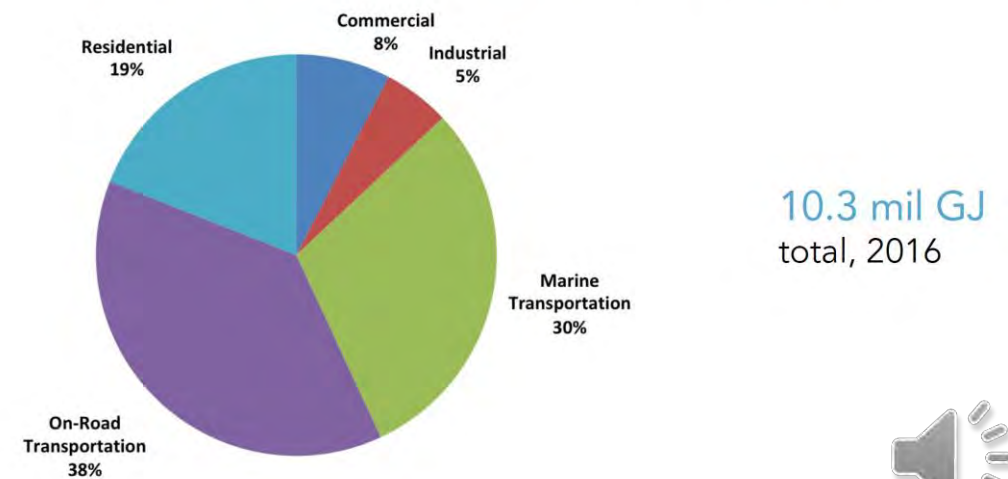
Western Region Energy Investment Plan

- 2016
 - Total cost of energy: \$327 million
 - Avg household cost of energy: \$5,800
- Transportation: 68% of energy consumed
- Electricity: 15% of the total consumed

Baseline energy (GJ), by fuel, 2016



Baseline energy (GJ), by sector, 2016



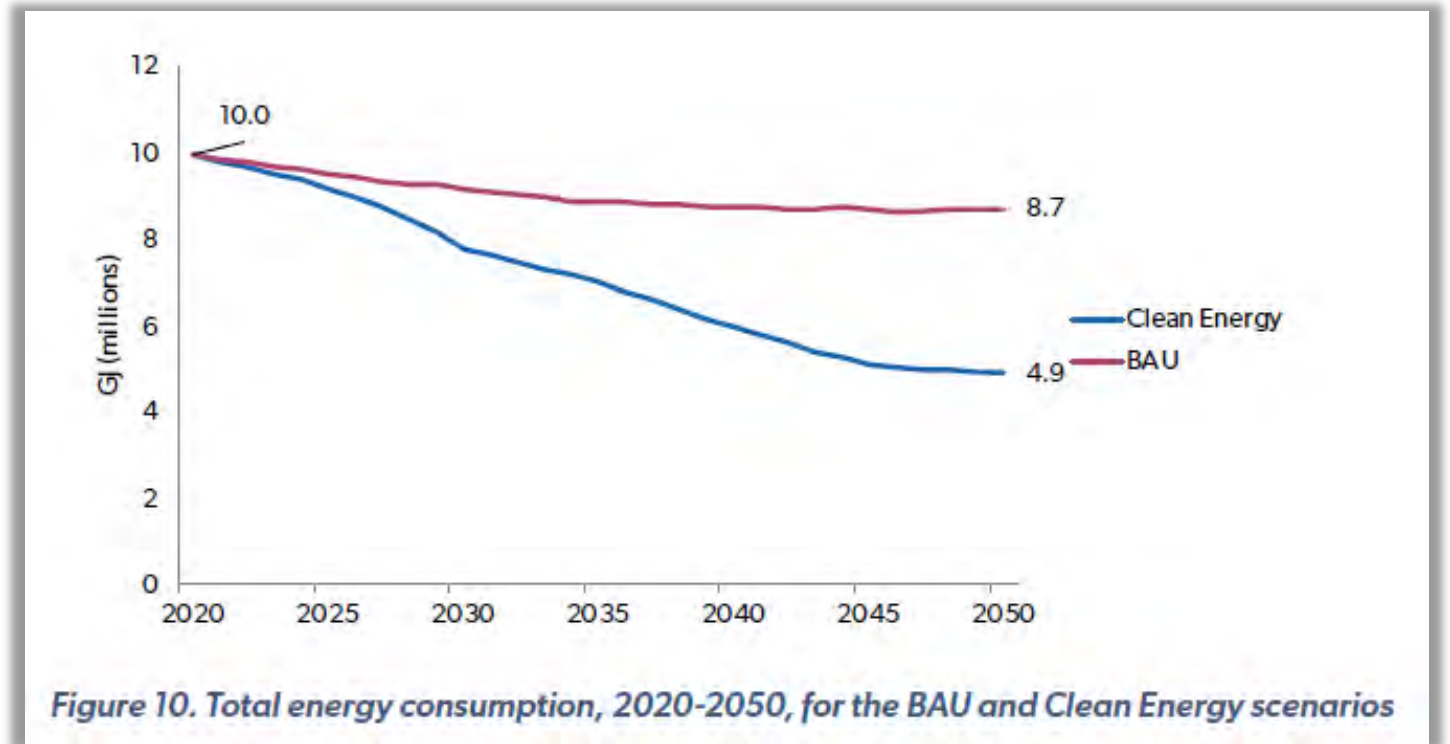
Creating Space on The Transmission Lines

- Reduce Demand
 - Energy efficiency
 - Businesses, Institutions, Municipal Buildings, Households, etc.
 - Savings
- Increase Supply
 - Local generation
 - Local storage
 - Revenue
- Reduced reliance on imported energy



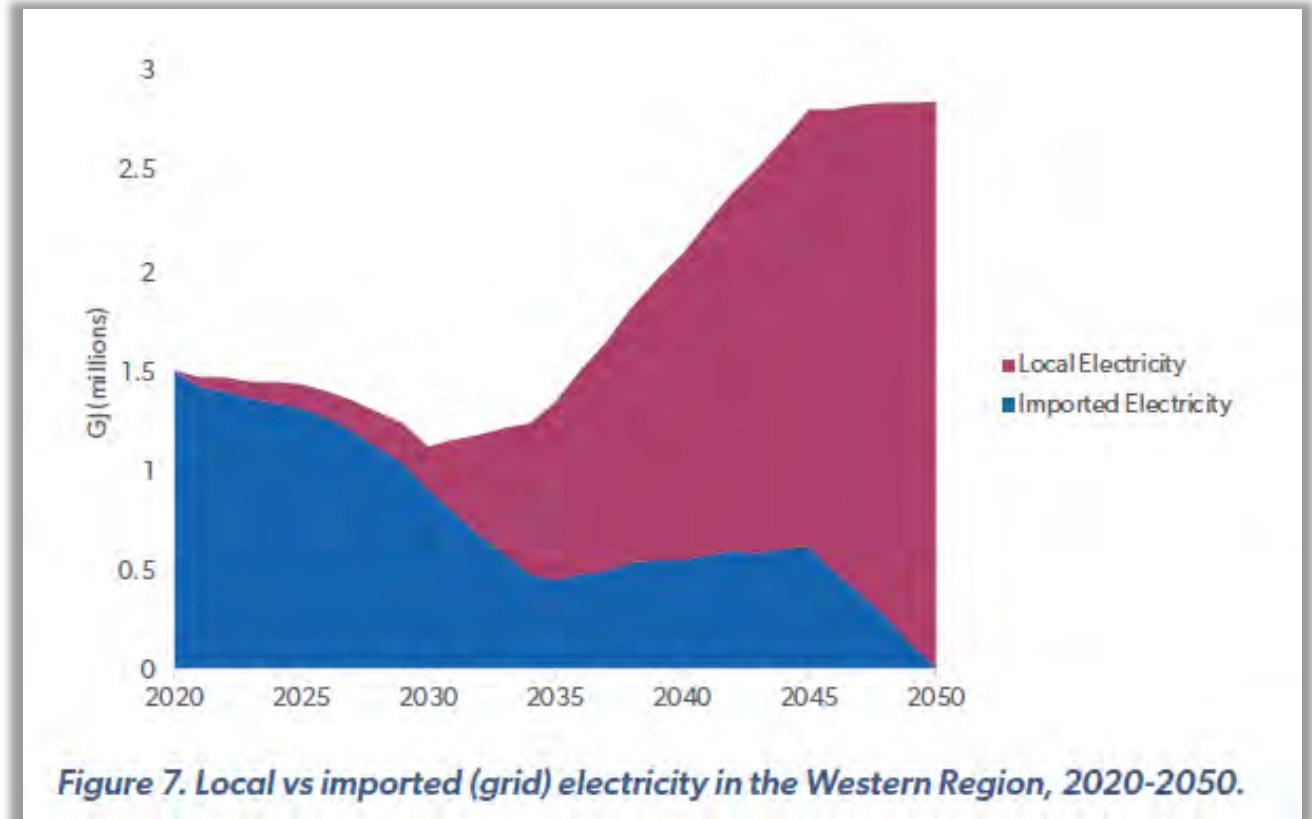
Energy Efficiency Opportunities

- Building Retrofits
 - Energy Efficiency Upgrades
- Cellulose Insulation
 - Waste Wood & Newspaper
- Electric Vehicles
- Power to Hydrogen

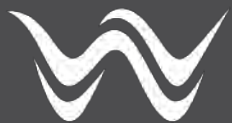
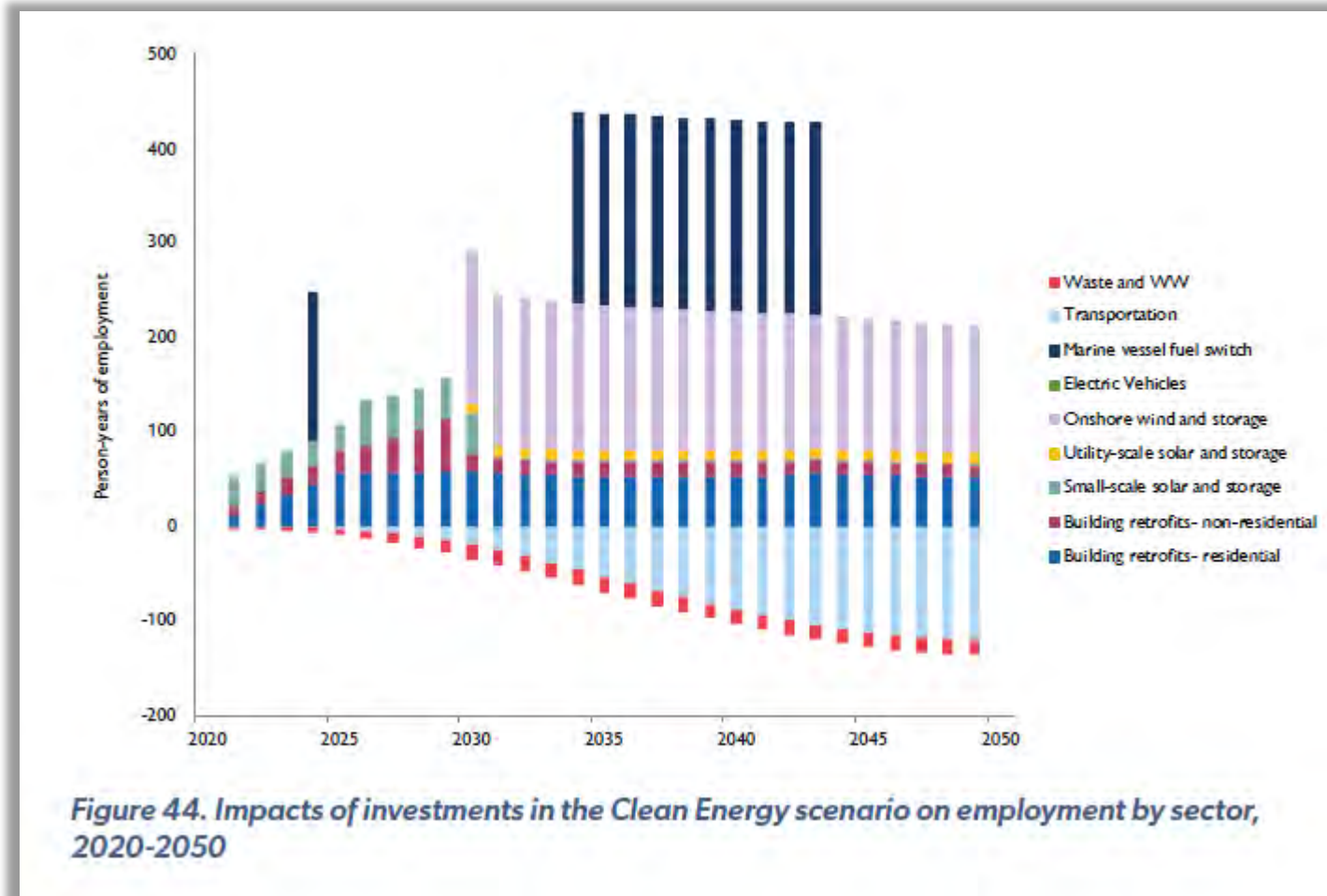


Energy Generation Opportunities

- Wind
- Tidal
- Solar
- Energy Storage
- Biogas



Green Energy Employment



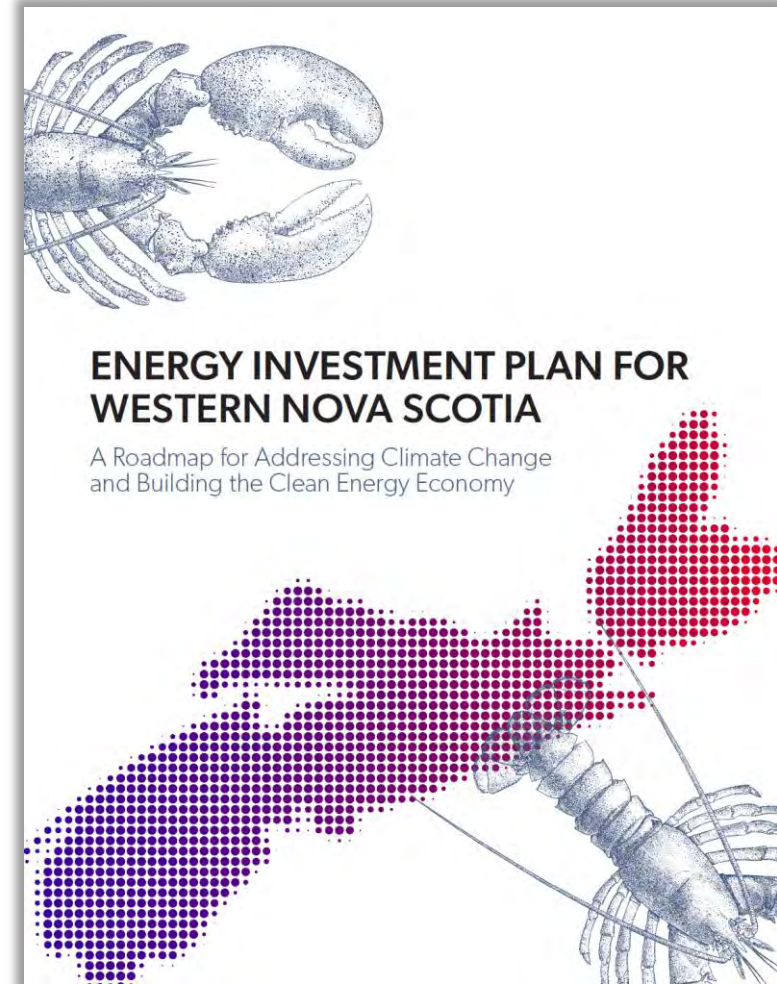
Global Appetite for Green Energy

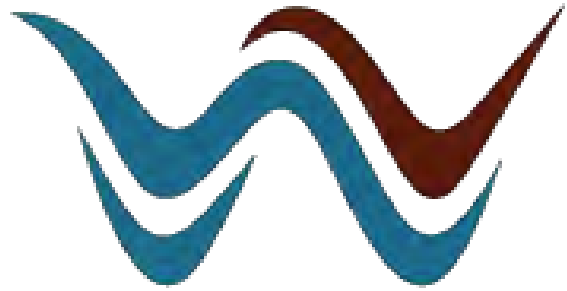
- Funding available
 - Federal Investing in Canada Plan
 - \$828 million for Nova Scotia
 - Invest Nova Scotia
 - Projects \$500,000 - \$3,000,000
 - Federal Build Canada Small Communities Fund
 - \$42.6 million for Nova Scotia



Next Step: Implementation

- Numerous Benefits
- Second RFP: Western Region Energy Investment Plan Implementation Services
 - Awarded to: MCC Energy Strategies Inc.
 - Identify top 2-4 opportunities
 - Engage with relevant stakeholders
 - Identify funding opportunities
 - Submit applications





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Thank you - Merci

