



FORM "A"
TO BE COMPLETED BY ANYONE
WISHING TO ADDRESS COUNCIL OR COMMITTEE OF THE WHOLE COUNCIL
No decision will be made at the same meeting as your presentation.

Names of individuals making the presentation:

Angélique LeBlanc, CEO
Evan Nemeth, EDO for Western REN

Points to be made:

Present findings of the Western REN's recently completed regional energy study – provide heads up in advance of upcoming communications strategy

Purpose and any requests that may be forthcoming from the presentation:

Please attach a copy of your written or power point presentation.

Time requested for presentation: ***15 minutes*** X ***30 minutes*** _____

Signature

Print Name: Erika Rolston

Mailing Address: 147 First Avenue, Digby, NS B0V 1A0

Phone Number: 902-740-1398

E-mail address: erolston@westernren.ca

Will you require a projector and computer for your presentation ?

NOTE: Individuals or groups making presentations are required to address their comments and questions to the Chair of the Meeting only.

Form "A" must be returned at least 7 days in advance of the Meeting you wish to attend.



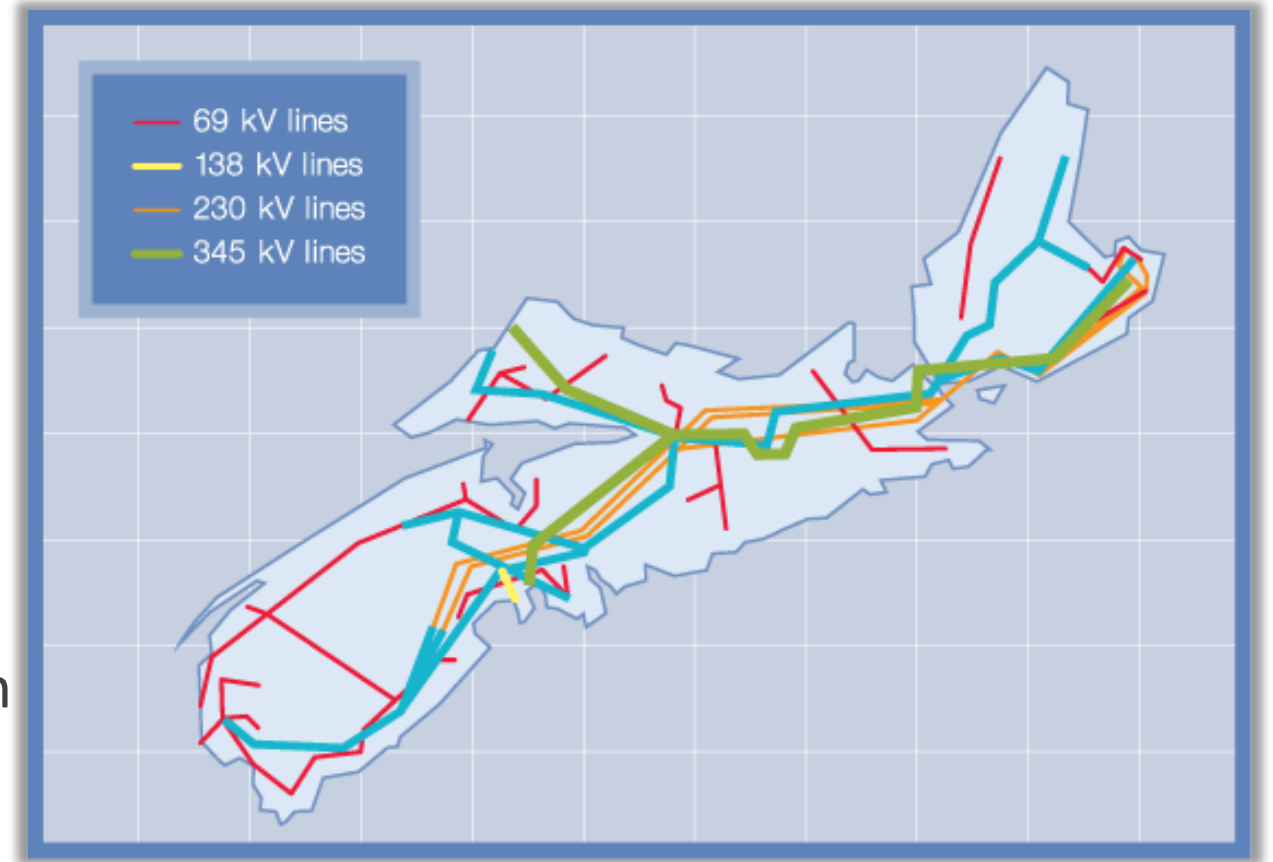
Western Regional Enterprise Network

*Western Region Energy Investment Plan
September, 2020*



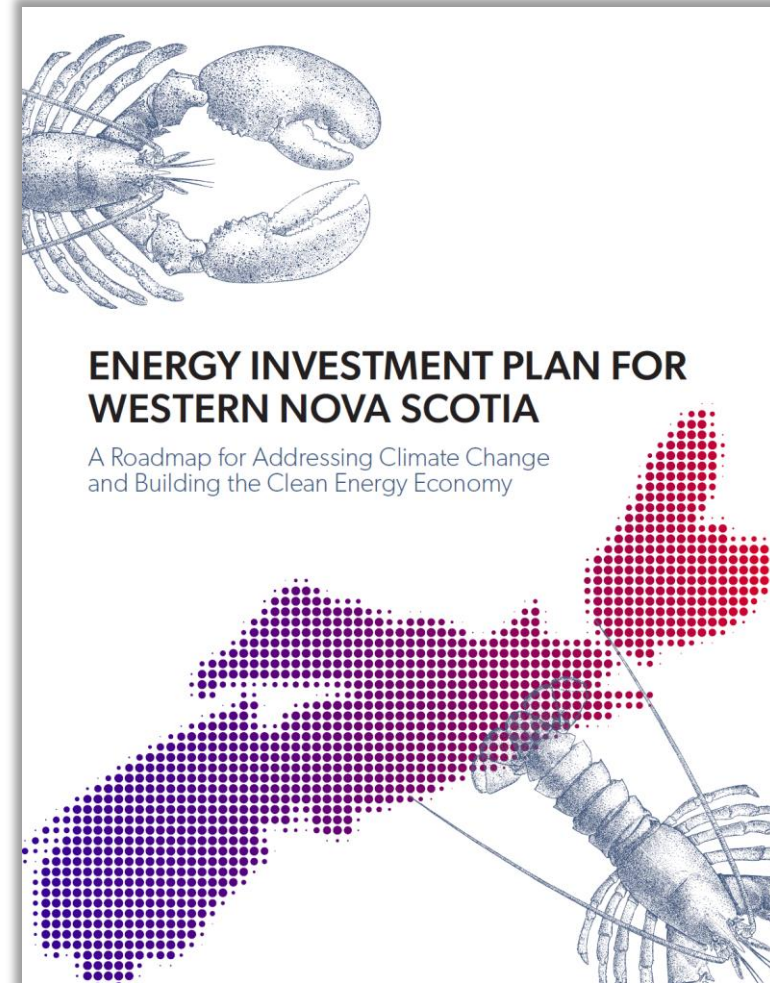
Energy Planning Rationale

- 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

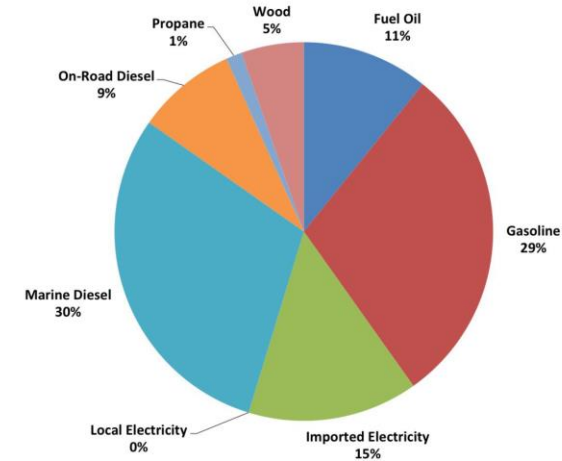
- Consultants: Sustainable Solutions Group (SSG)
 - Baseline Energy Consumption
 - Energy Efficiency
 - Green Energy Generation & Storage
 - District Energy & Heating



Western Region Energy Investment Plan

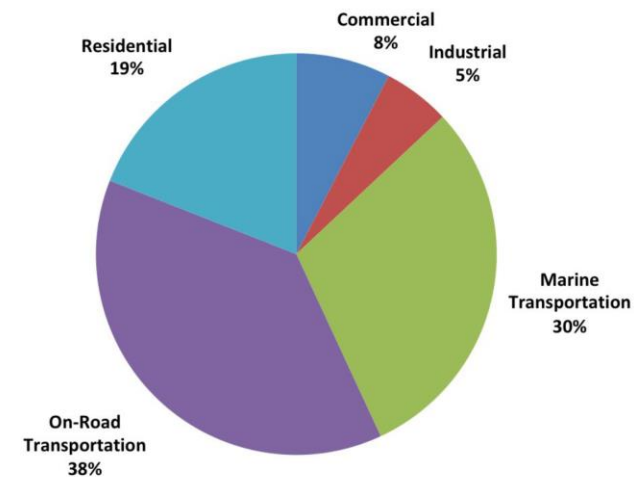
- 2016
 - Total cost of energy: \$327 million
 - Avg household cost of energy: \$5,800
- Transportation: 68% of energy consumed
- Electricity: 15% of the total consumed

Baseline energy (GJ), by fuel, 2016



10.3 mil GJ
total, 2016

Baseline energy (GJ), by sector, 2016

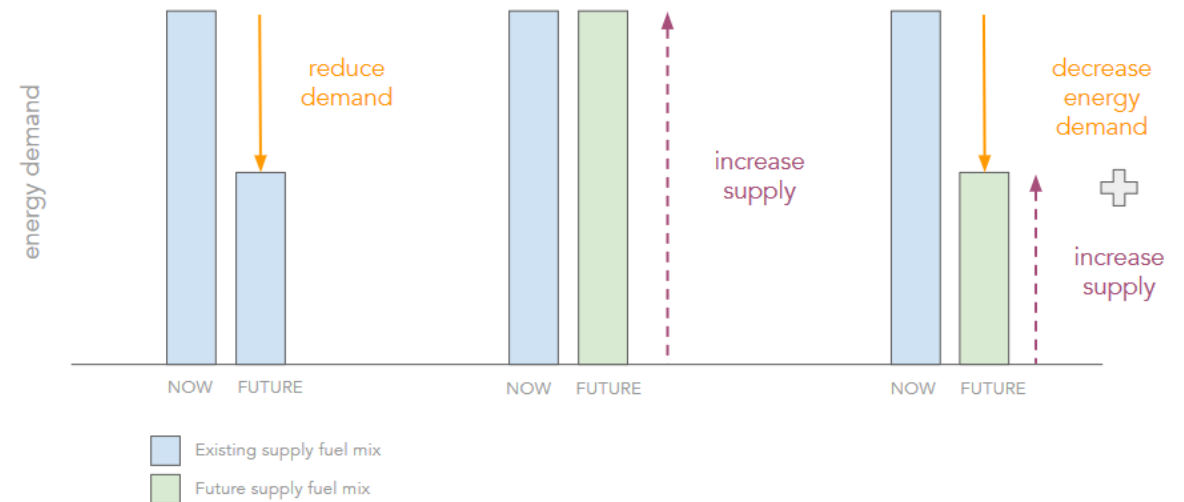


10.3 mil GJ
total, 2016



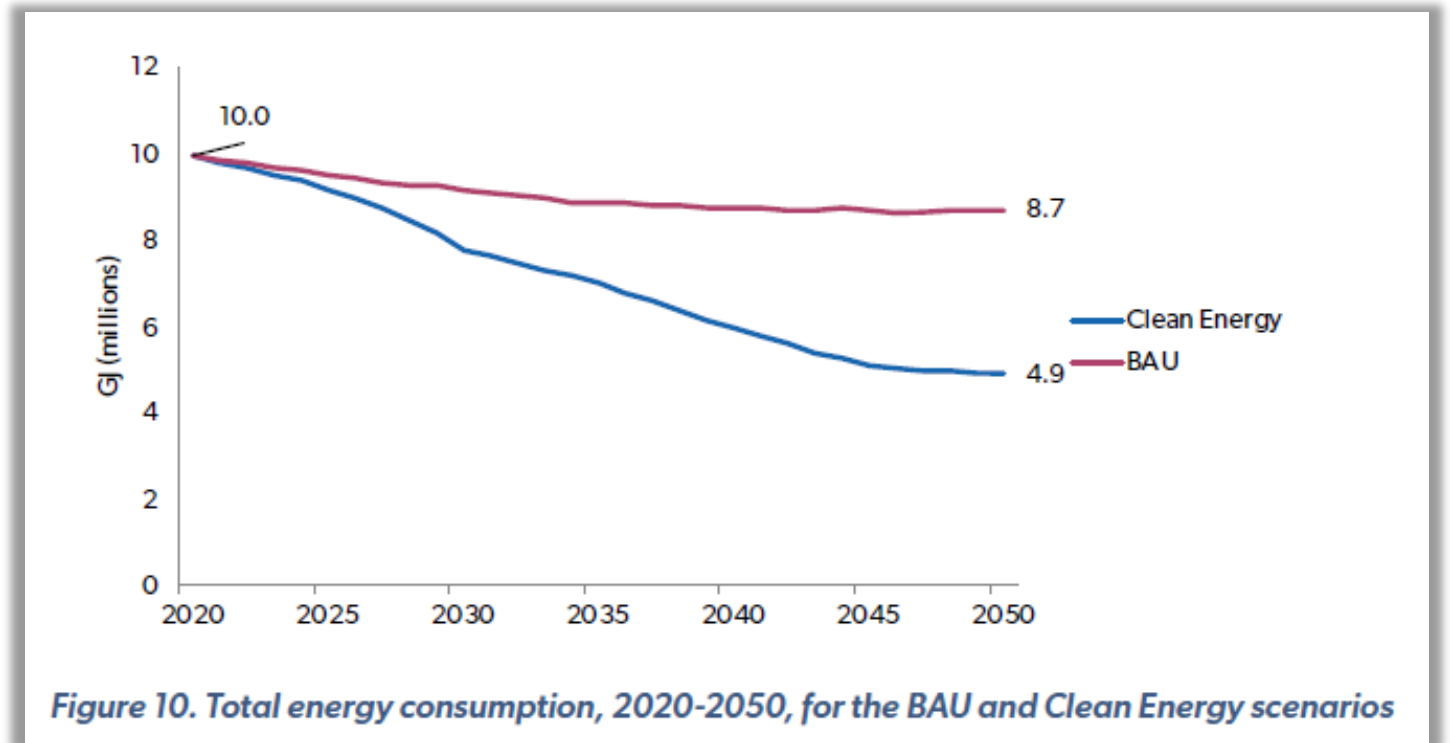
Creating Space on The Transmission Lines

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



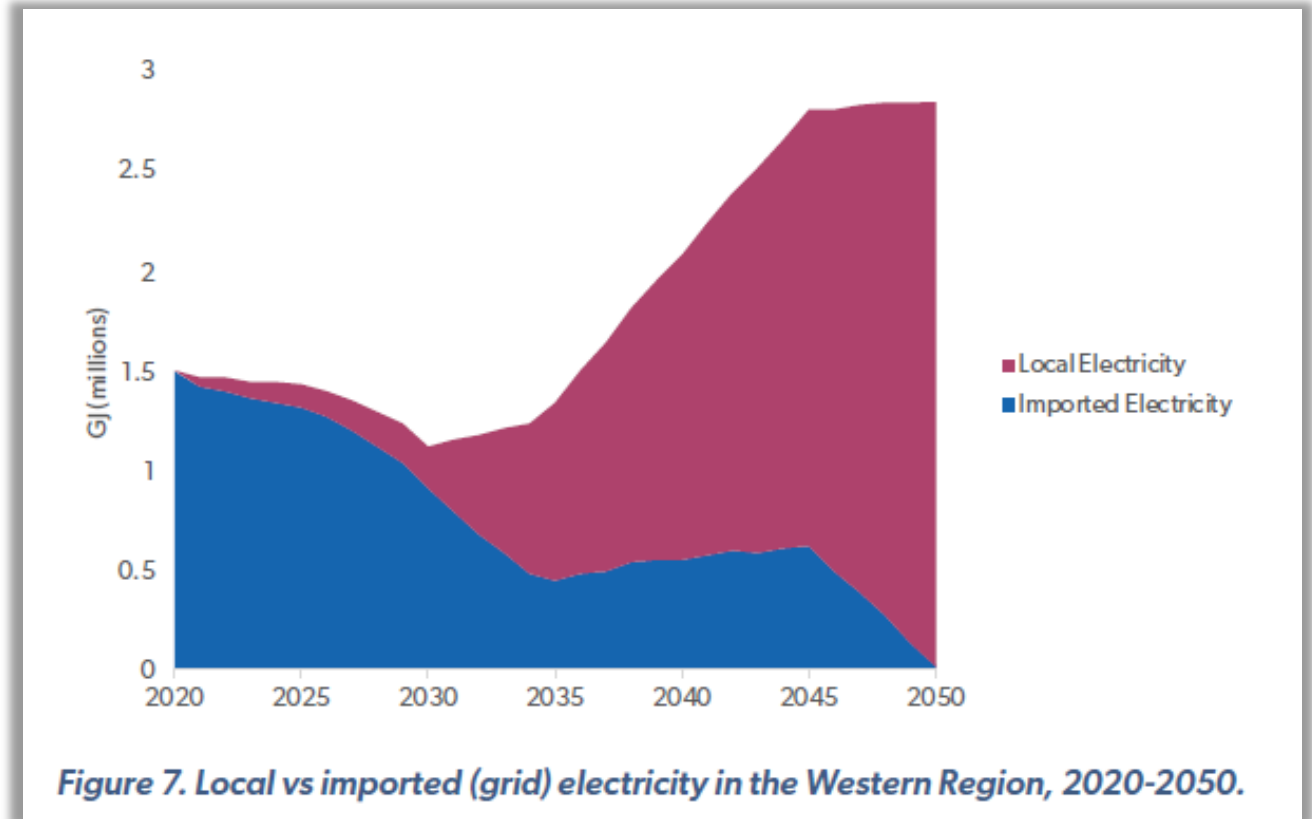
Energy Efficiency Opportunities

- 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

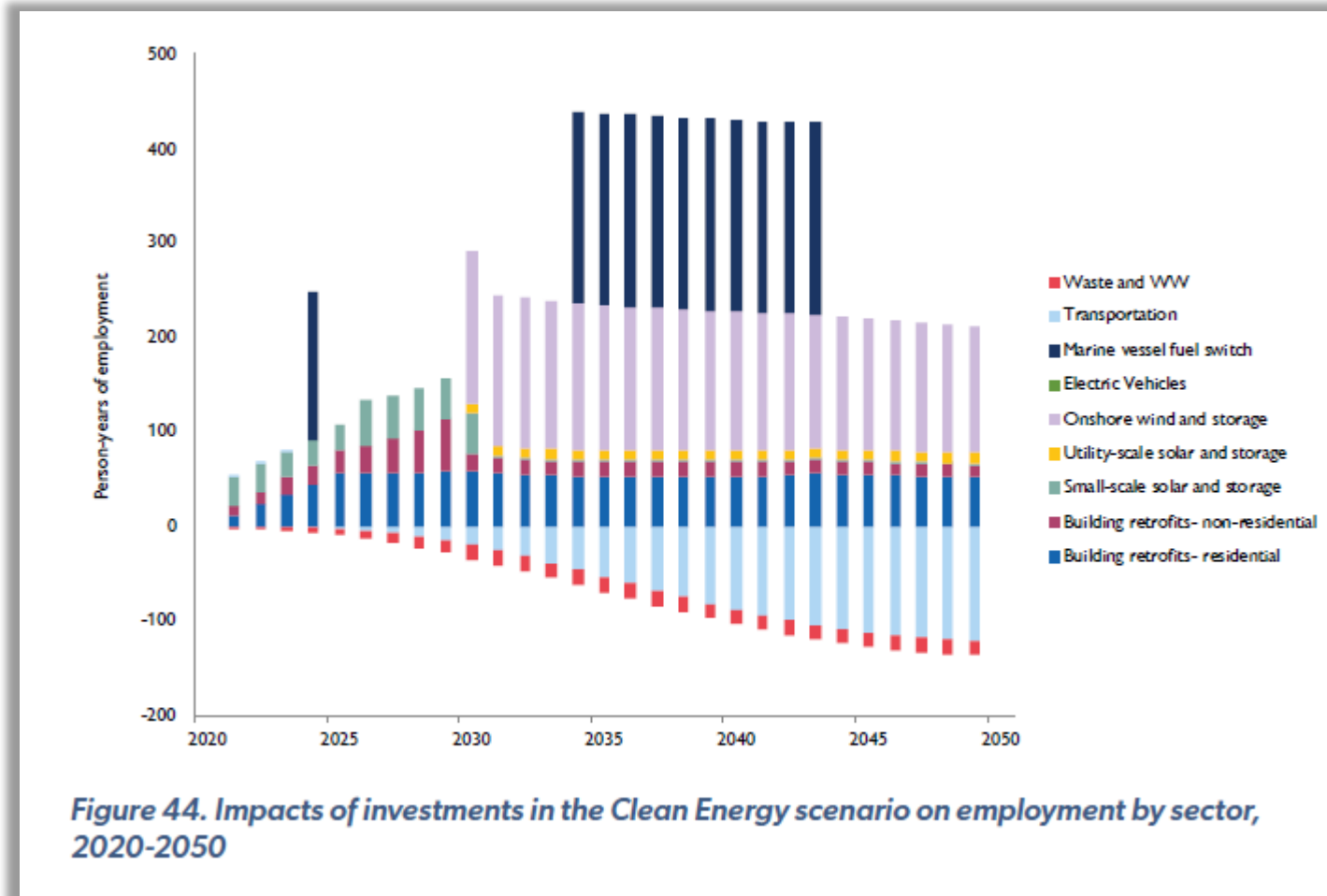


Figure 44. Impacts of investments in the Clean Energy scenario on employment by sector, 2020-2050



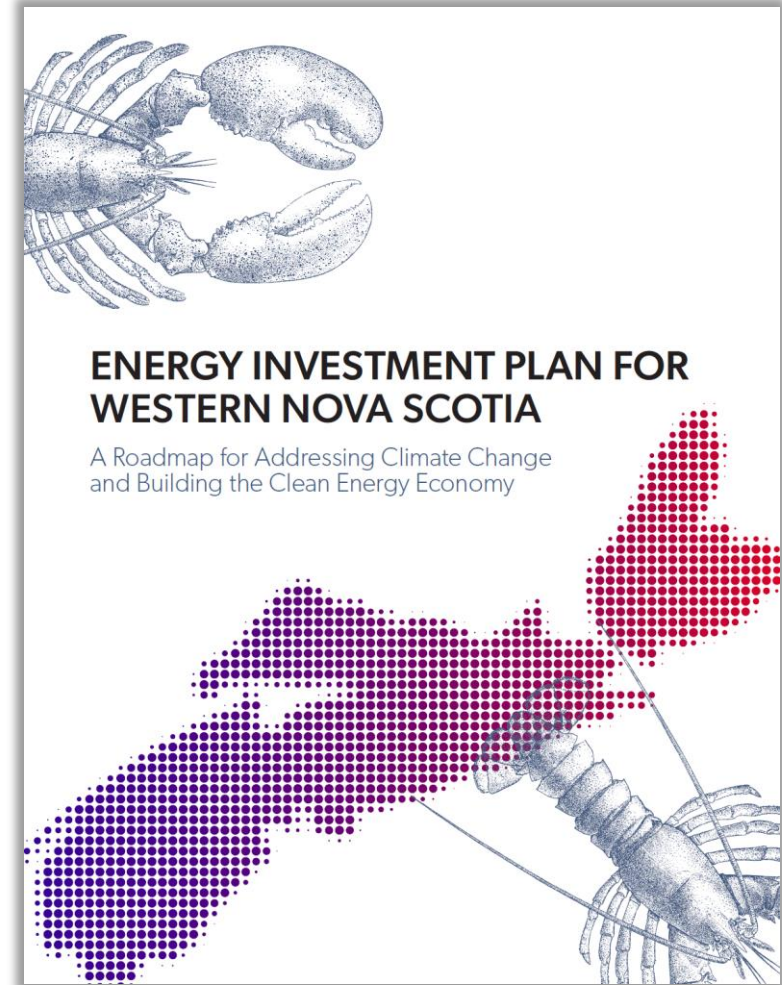
Global Appetite for Green Energy

- 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





Western Regional Enterprise Network

Thank you - Merci

