



THE CENTER FOR
CLIMATE STRATEGIES

WORKING TOGETHER TO CREATE A BETTER SAFER AND MORE JUST WORLD

Practical Approaches to Economic Diversification and Transformation

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UNFCCC Subsidiary Body for Scientific and Technical Assistance

Climate Policy Objectives

Economic Security and Sustainability

- Economic diversification (broadening and shifting mix) *
- Economic transformation (refocusing direction and value) *
- Economic recovery (expanding jobs, income, growth) *

Justice and Equity (Gender, Minorities)

- Avoidance of Harm
- Access to Opportunity

Environmental Security

- Climate mitigation (stabilization through decarbonization)
- Climate adaptation (vulnerability reduction through resilience)

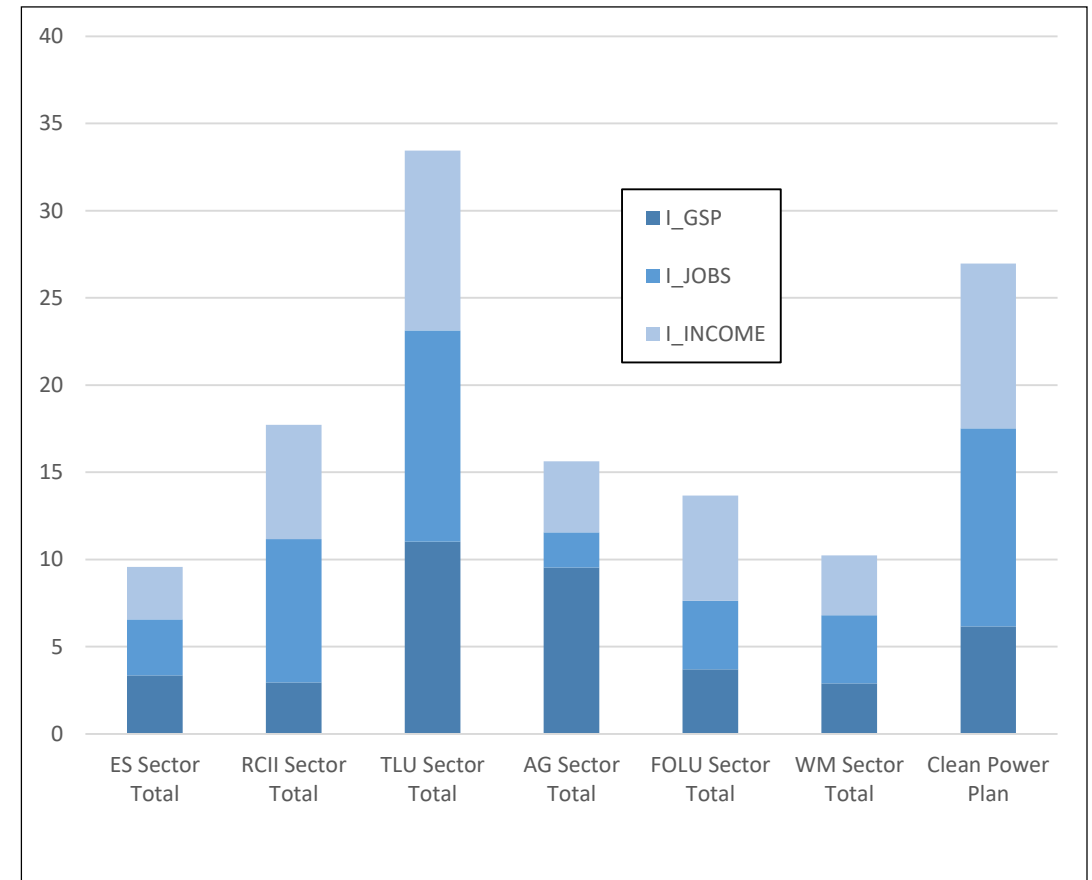
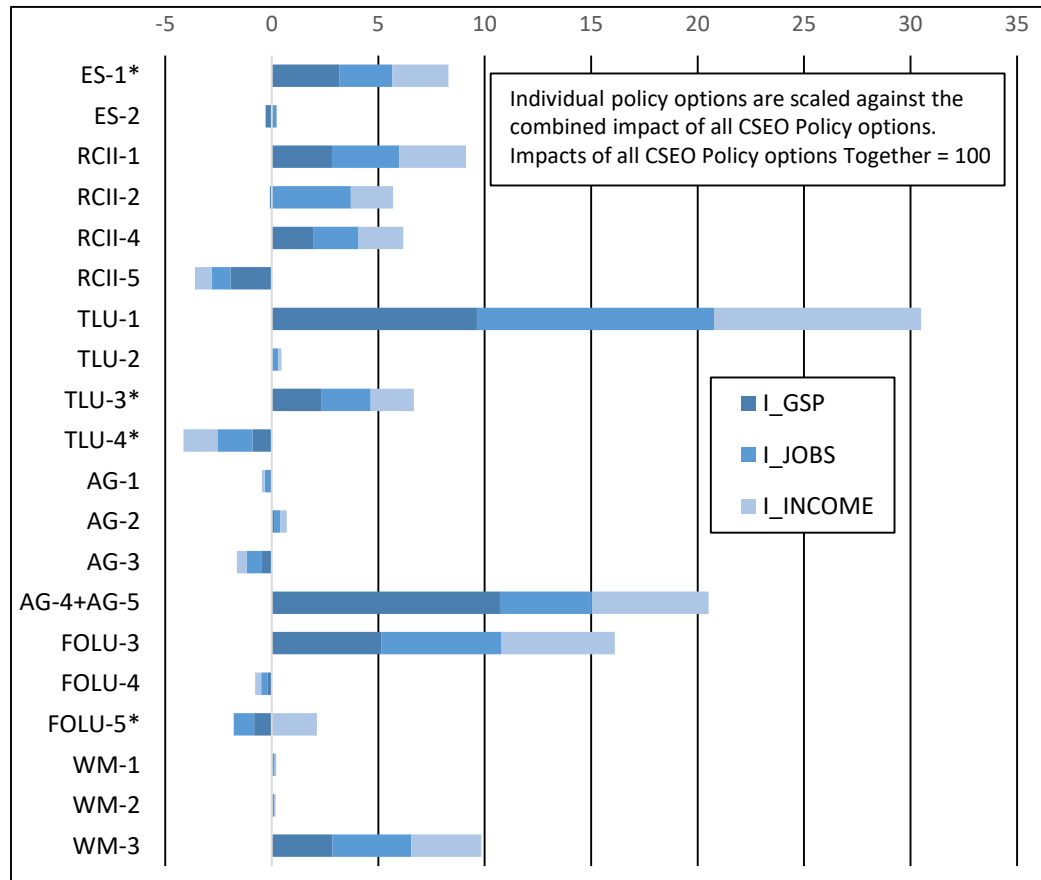
Energy and Resource Security and Sustainability

- Resilience
- Longevity
- Value Added
- Access

- Comprehensive, multi objective, multi sector planning format
- Tools and Templates widely available and applied
- Many case examples, success stories, lessons learned

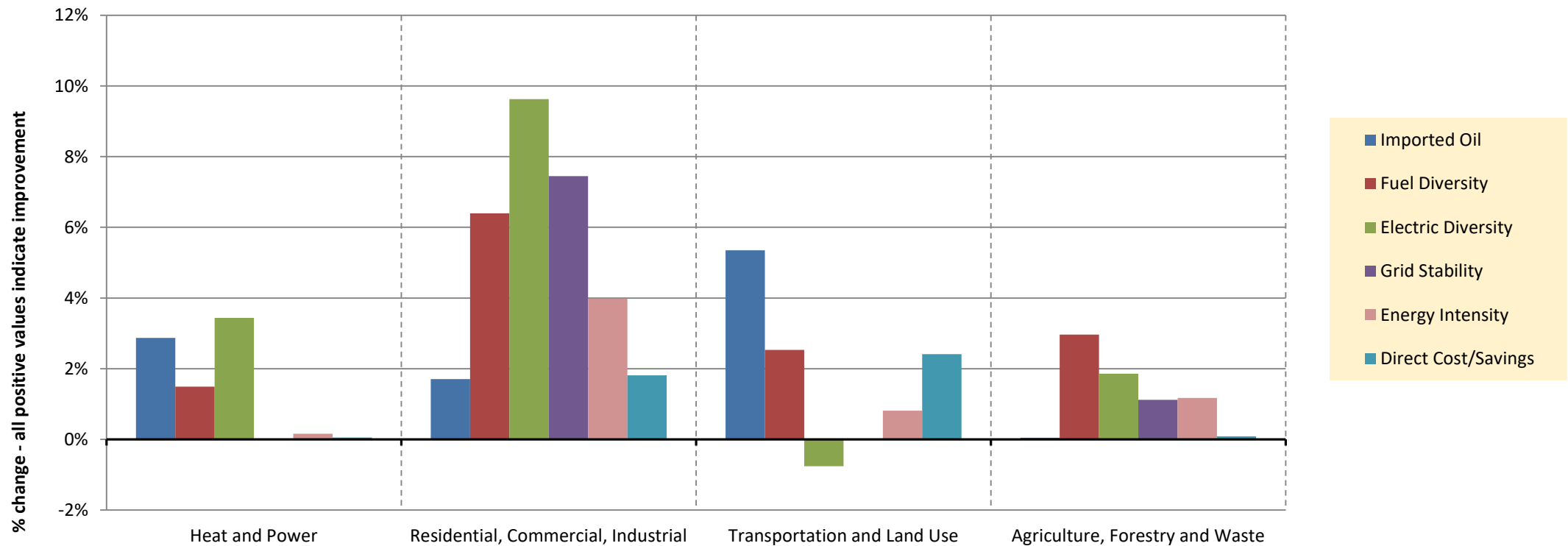
* Our focus today

Minnesota – Clean Economic Strategies



US States -- Low Carbon Economic Diversification

Energy and Economic Performance



Changes in Energy Security Metrics in Economic Sectors from 20 Low Carbon Technology Actions at the US States Subnational Level

Low Carbon Macroeconomic Drivers and Mapping

Cost effective
approaches increase
economic efficiency and
expansion

Energy savings cut
energy costs, stimulate
labor investment

Shifts to *domestic vs.*
imported resources cut
job outflows

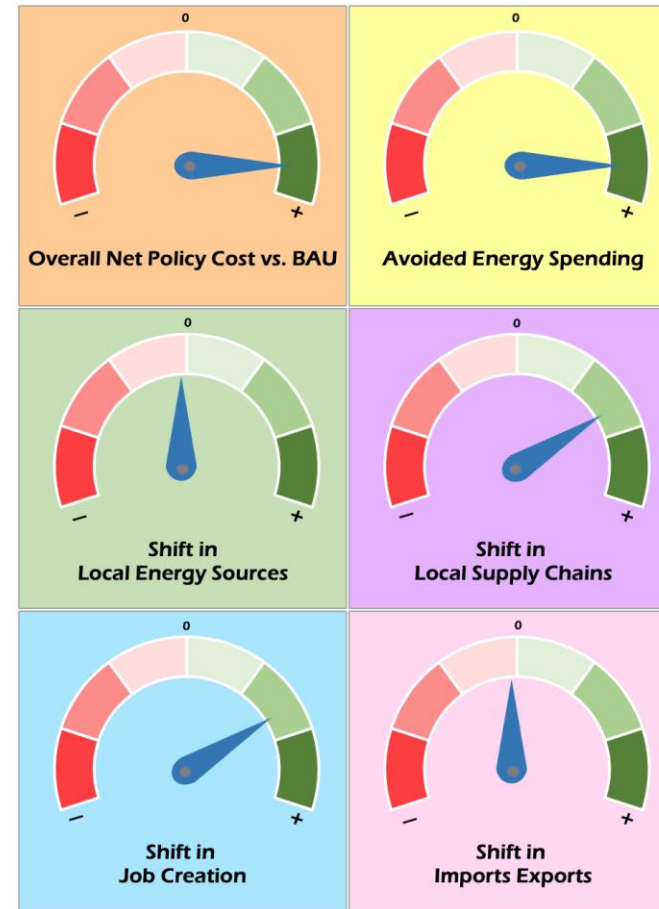
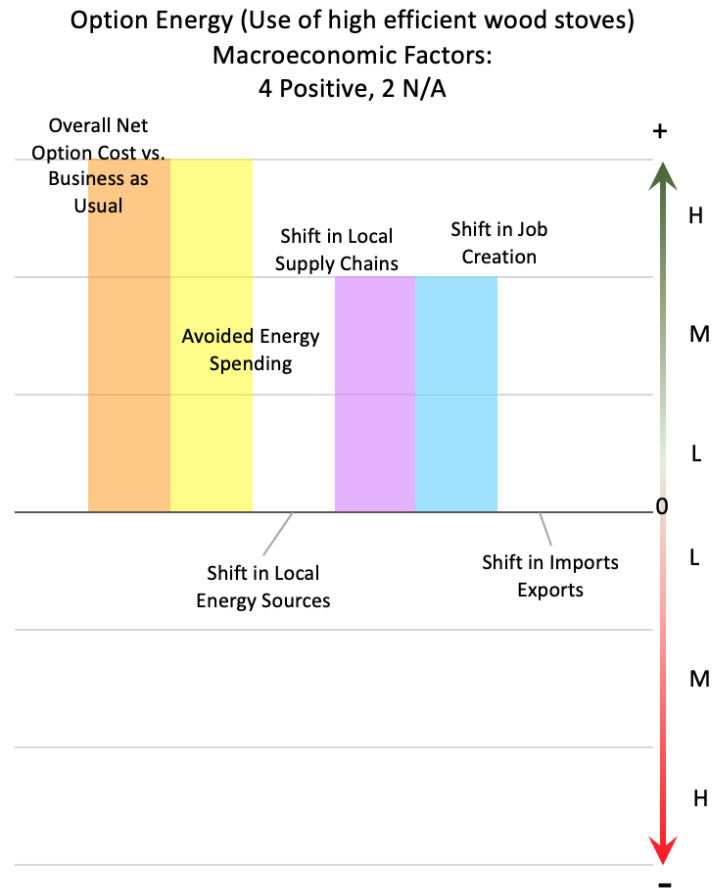
Actions supported by
local supply chains
expand domestic
production and
employment

New investment from
outside sources
stimulates labor
investment at home

Labor intensive
activities create more
jobs, even if at higher
cost (up to a point)

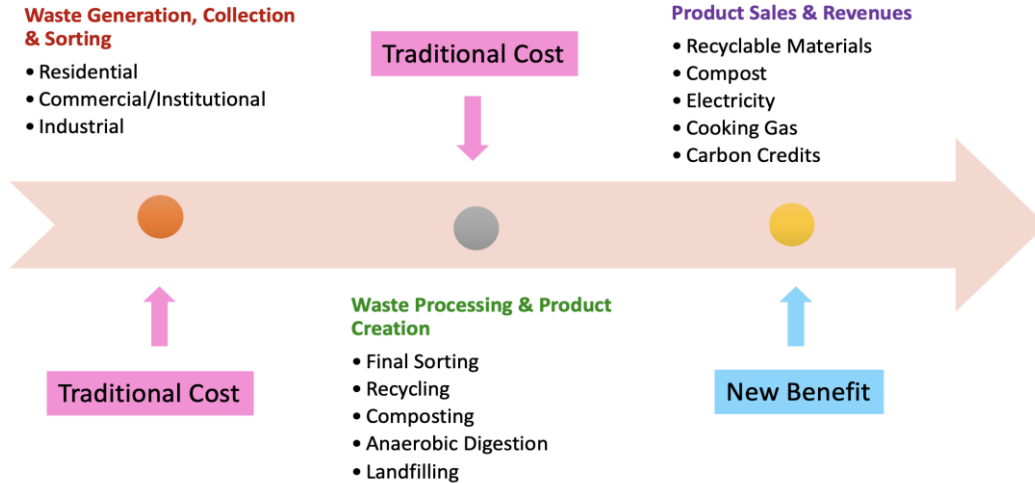
Indicators Enable Option Selection and Design of New Actions

Cote D'Ivoire – Sustainable Economic Diversification and Transition



Indicators Enable Structural Review and Design of New Actions

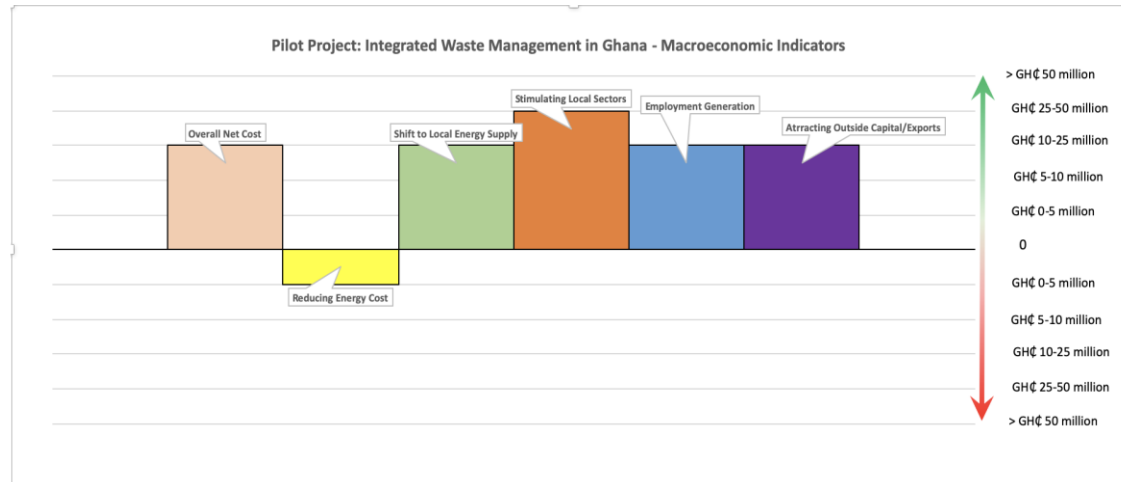
Ghana – NDC, Diversification, Investment



Net Results

DCF Based Financials

NPV	GHS	1,796,310
IRR		18.2%
Payback Period (years)		5.2
WACC		17.7%
Total Discounted Benefits	GHS	25,627,216
Total Discounted Costs	GHS	(23,830,906)



Benefits

Financial

Product Sales	GHS	18,607,622
Residential Service Fees	GHS	2,652,250
Asset Sales	GHS	7,172
Public Financing	GHS	1,910,172
Private Financing	GHS	2,450,000
Total Benefits	GHS	25,627,216

Integrated Waste Management System Pilot

Mato Grosso, Brazil – 2050 Pathway Economic Diversification



dos impactos das ações prioritárias

	Custos líquidos mais baixos	Mudança no consumo de energia e recursos	Mudança nas fontes de energia e recursos locais	Mudança nas cadeias de suprimentos locais	Criação de emprego	Mudanças nas fontes de investimento e renda
AFOLU-1. Manutenção do ativo florestal	-	+	+	+	+	+
AFOLU-2. Manejo florestal sustentável	+	-	+	+	+	+
AFOLU-3. Regularização fundiária	-	+	+	+	+	+
AFOLU-4. Criação, ampliação, e melhoria da gestão de Áreas Protegidas	-	+	+	+	+	+
AFOLU-5. Reflorestamentos comerciais	+	-	+	+	+	+
AFOLU-6. Restauração da paisagem florestal	-	-	+	+	+	+
AFOLU-7. Redução do risco de incêndio florestal	-	+	+	+	+	+
AFOLU-8. Boas práticas de manejo ag-ropecuário (BPA)	+	+	+	+	+	+
AFOLU-9. Proteção da vegetação secundária	-	+	+	+	+	+
AFOLU-10. Recuperação de pastagens degradadas	+	+	+	+	+	+
AFOLU-11. Integração Lavoura-Pecuária-Floresta (ILPF)	+	-	+	+	+	+

+ Positivo 0 Neutral - Negativo

FIGURA 16: RESUMO DA AVALIAÇÃO MACROECONÔMICA DAS AÇÕES PRIORITÁRIAS.

Indicators Enable Selection and Design of Long-Term Strategies

Thank You!

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