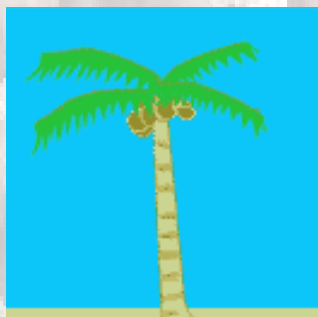


*Enjeux et perspectives des
biocarburants pour l'Afrique*

Policy support for biofuels - Examples from the Pacific Islands

Politique de soutien aux biocarburants :
exemples des Iles Pacifique

Jan Cloin



Outline

- Why biofuel policy support?
- Policy Development
- Policy Examples
- Conclusion
- L'importance des politiques de soutien des biocarburants
- Mise en place des politiques et législations
- Exemples
- Conclusion

Why Biofuel Policy Support?

Pourquoi?

- All the positive impacts of Biofuels

- *Structural shift required in Agriculture, Energy Sector*
- *Need for normalisation of new product in markets*
- *Learning Curve of Industry*
- *Periods of economic non-competitiveness*
- *Guide Investment*

- Retombées positives

- *Restructuration des secteurs agricole et industriel*
- *Besoin de normalisation de nouveaux produits*
- *Courbe d'apprentissage de l'industrie*
- *Périodes de non-competitivité économique*
- *Orienter correctement les investissements*

Policy Development

Policy Statement

Politique

"Biofuels should constitute 20% of energy mix by 2015"

Strategic Action Plan

Plan d'Action Stratégique

Develop Ethanol Production at Sugar Mill, Standardise Biofuels, Integrate with oil industry, Provide fiscal incentives...

Legislation

Législation

"Each Litre of petrol shall contain at least 5 – 10% ethanol by volume", "E10 shall receive a duty concession of 10 cents", ...

Strategy Examples

- Demonstration
 - Standardisation
 - Fiscal Incentives
 - Integration with rural electrification
 - Command Production
 - Covenant with Oil Industry
- Démonstration
 - Standardisation
 - Incitations fiscales
 - Interaction avec l'électrification rurale
 - Imposer une production
 - En accord avec l'industrie pétrolière

Demonstration



Standardisation

Draft Ethanol Standard for Fiji

Based on: Australian Proposed Standard for Fuel Grade Ethanol, Department of the Environment and Heritage.

Table 1 - Proposed Australian Ethanol Standard

Parameter	Standard	Test Method
Ethanol content	99.0 vol % min (prior to denaturing) 94.0 vol % min (after denaturing)	ASTM D5501
Methanol content	0.1 vol % max	ASTM D1152
Non-volatile matter	2.5mg/100ml max	ASTM D1353 BP2002
Water content	1 vol % max	ASTM E203 ASTM E1064
Denaturant Content	1 vol % min 5 vol % max	
Copper	0.1 mg/kg max	ASTM D1688A (modified)
Acidity	0.007 mass % max	ASTM D1613
pH ₅	6.5-9.0	ASTM D6423
Appearance	Clear without particles	ASTM D2090
Sulphur	50mg/kg max	ASTM D5453-93
Phosphorus	0.5 mg/L	ASTM D3231 (modified) EN 14107 (modified)

* ASTM - American Society for Testing and Materials

** BS - British Pharmacopoeia Standards

The rationale supporting the choice of parameters and related limits and test methods is provided in Table 2.



Technologie- und Förderzentrum
im Kompetenzzentrum für Nachwachsende Rohstoffe

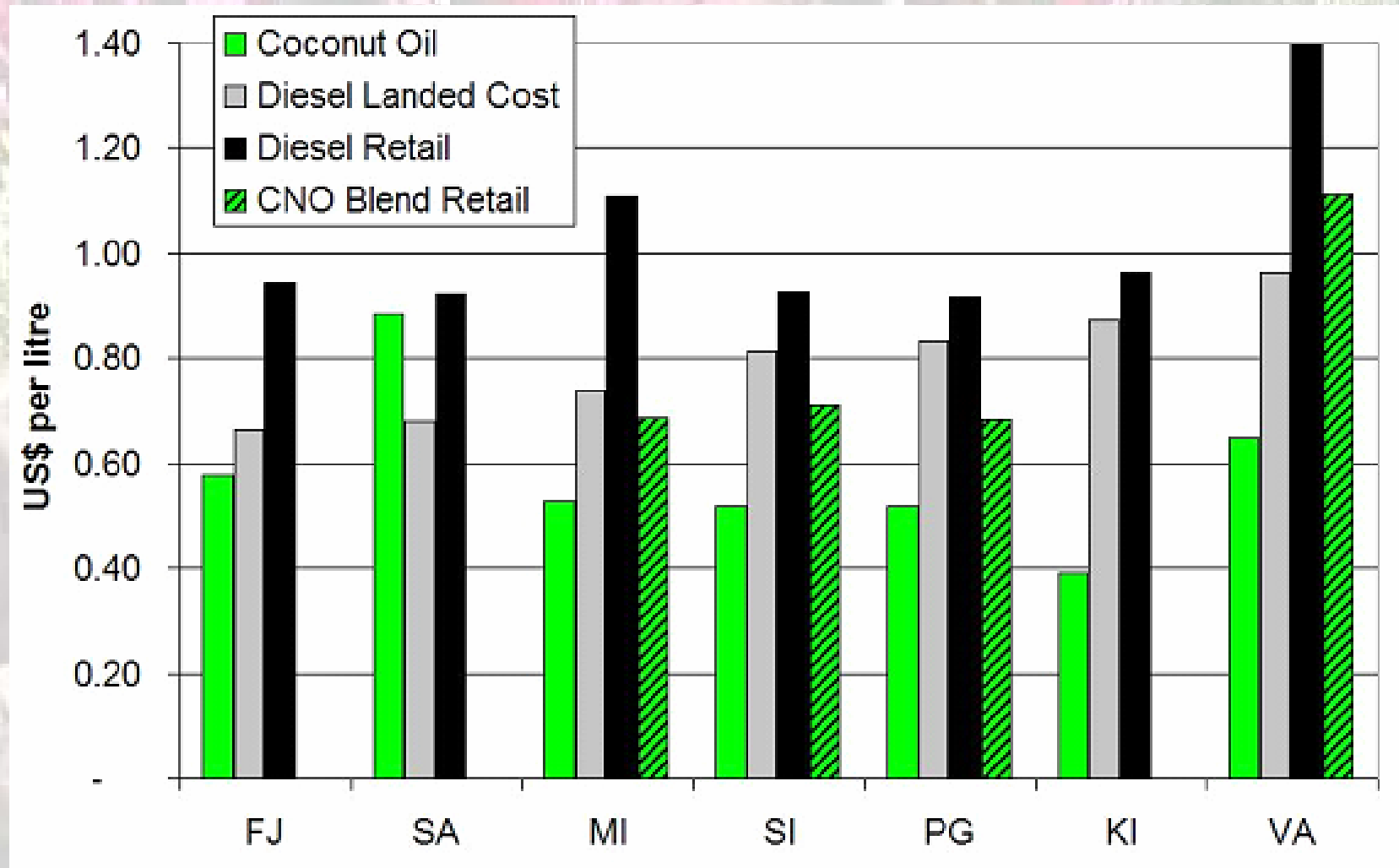
Properties / Contents		Unit		Limiting Value		Testing Method
		min.	max.			
<i>characteristic properties for Rapeseed Oil</i>						
Density (15 °C)		kg/m ³	900	930		DIN EN ISO 3675 DIN EN ISO 12185
Flash Point by P-H.		°C	220			DIN EN 22719
Calorific Value		kJ/kg	35000			DIN 51900-3
Kinematic Viscosity (40 °C)		mm ² /s		38		DIN EN ISO 3104
Low Temperature Behaviour						Rotational Viscometer (testing conditions will be developed) (werden erarbeitet)
Cetane Number						Testing method will be reviewed
Carbon Residue		Mass-%		0.40		DIN EN ISO 10270
Iodine Number		g/100 g	100	120		DIN 53241-1
Sulphur Content		mg/kg		20		ASTM D5453-93
<i>variable properties</i>						
Contamination		mg/kg		25		DIN EN 12662
Acid Value		mg KOH/g		2.0		DIN EN ISO 660
Oxidation Stability (110 °C)		h	5.0			ISO 6886
Phosphorus Content		mg/kg		15		ASTM D3231-99
Ash Content		Mass-%		0.01		DIN EN ISO 6245
Water Content		Mass-%		0.075		pr EN ISO 12937

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Fiscal Incentives



Integration with rural electrification

- Convert new rural electrification generators
- Include oil production in rural electrification schemes
- Biofuel RESCOs
- Adapter les generateurs
- Inclure la production locale d'huile
- Etablir des RESCO - biocarburant



Command Production

- "Fiji Sugar Corporation must produce 15 MI Ethanol in 2011"

Supply – Demand?



- "Fiji Sugar Corporation doit produire 15MI d'ethanole en 2011"

Offre et demande?



Covenant

- Set Mandatory Target for Oil Industry (NZ: 5% biofuels in 2012)

Market oriented,
but..

- Imposer des cibles chiffrées: 5% de biocarburants en 2012 en Nouvelle Zelande

Secteur privé,
mais..

Conclusion

- Biofuel Policy Needed
- Various strategies
- Framework for sustainable business
- Support to be limited in time
- Integration of Agriculture, Energy, Forest Sector Policies
- Politique energetique requise
- Strategies diverses
- Cadre pour une economie durable
- Subvention a limiter dans le temps
- Integration multi sectorielle: agriculture, energie, foret et environnement

Merci

