



Ministry of Finance  
GOVERNMENT OF SAMOA

# CDM PROJECT OPPORTUNITIES, STATUS AND TREND IN PROJECT DEVELOPMENT IN SAMOA

CARBON EXPO  
MELBOURNE, AUSTRALIA  
7-9 NOVEMBER 2012



Table 1:GHG Emissions from main sectors and Growth Trend

Sector	1994 Gg CO <sub>2</sub> -e	%	2000 Gg CO <sub>2</sub> -e	%	2007 Gg CO <sub>2</sub> -e	%
<b>Energy</b>	<b>102.83</b>	62	<b>142.74</b>	54	<b>174.35</b>	50
Industrial Processes & Product use	--	--	4.59	2	9.51	3
Agri, forestry + other land use(excluding removals)	37.92	23	86.06	32	135.37	38
Waste	24.88	15	33.09	12	32.81	9
Total Emissions	<b>165.63</b>		<b>266.43</b>		<b>352.03</b>	
Estimated CO <sub>2</sub> removals Agriculture, forestry & other land use	<b>-658.56</b>		<b>-1150.04</b>		<b>-785.07</b>	



Table 2: Top Six Sources of GHG Emissions in Samoa (2007)

Rank	Source	Emissions (Gg CO <sub>2</sub> - e)	% of total emissions
1	Road Transport	95.11	27%
2	Livestock Farming	88.36	25%
3	N <sub>2</sub> O from Agricultural Soils	47.01	13%
4	Electricity Generation	44.21	13%
5	Other Energy Consumption	34.14	10%
6	Wastewater	25.44	7%
	TOTAL	335.15	95%



## Progress with CDM

- Samoa started late, therefore we are in the initial phase
- Samoa DNA had been endorsed March 2010
- Local Consultant (early 2012)
  - Collecting data
  - Completed the PINs and finalizing the PDD with the assistance of international consultants



## Progress with CDM

- 1<sup>st</sup> National Workshop – 30<sup>th</sup> – 31<sup>st</sup> August.
- Complete the Web page for CDM for information sharing
- <http://www.mof.gov.ws/Services/Energy/SamoaDNA/tabid/8273/language/en-US/Default.aspx>



## POTENTIAL CDM PROJECTS

### Coconut oil based power generation in Samoa

- 1MW power plant
- Micro-scale project activity as per "Guidelines for demonstrating additionally of Micro-scale project activities"
- PIN completed
- Project estimated annual emission reduction is 1771 tCO<sub>2</sub>e, and total expected CERs over its 10 year fixed crediting period is 17,710 CERs
- Expected to be operational by 2015, first CER delivery is expected in 2016



Picture: untitled man climb a coconut tree; husking coconut





## POTENTIAL CDM PROJECTS

### Biomass Gasification Power Plant in Samoa

- Planned 500KWe capacity project
- PIN completed
- Project estimated annual emission reduction is 2,803 tCO<sub>2</sub>e and its expected CER outputs for its 10 year fixed crediting period is 28,030 CERs
- Project is expected to be operational by 2015, first CER delivery is expected in 2016



Picture: vehicle fully run using bio-diesel fuel, pig for gasification project





## POTENTIAL CDM PROJECTS

### Upolu Wind Power Project, Samoa

-3,626 MWh annually

- PIN completed

- Project estimated annual emission reduction is 2,900 tCO<sub>2</sub>e and its expected CER outputs for its 10 year fixed crediting period is 29,000 CERs

-Project is expected to be operational by 2015, first CER delivery is expected in 2016



Picture: Afulilo Monitoring Station; wind energy





## Barriers to CDM and Suggestions

- DNA Board needs to be in operation and capacity building for the Board to gain experience in assessing the applications;
- Local capacity and limited resources (human and financial);
- Local consultants capacity to provide advice and develop PIN, PDD and other documentation and relevant information and processes;
- Verification process for CER is costly for small islands



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