



## Climate Outlook

### Tropical Cyclone Outlook for November 2019 – April 2020 period

Two (2) to three (3) cyclones are predicted to pass within 400km radius of the Samoan region with at least one (1) tropical cyclone to reach Category 3 (wind speed at least 178km/hr to 111 miles/hr) or greater (Category 4 to Category 5).

### Historical trends on Tropical Cyclones for Samoa (period 1990 – to date)

Date/Year	Tropical Cyclone (TC)	Category	Comment	Cost of Damage
Feb 03 - 19/2018	Gita	4	Affected Samoa from Feb 9 – 11 (Cat 1) Winds of 39 – 54 mph gust at 72mph	WST\$2.5mil
Apr 20 – 24/2016	Amos	3	Affected Samoa from April 21 – 24 (Cat 2) Winds of 55 – 72 mph	n/a
Dec 9 - 19/2012	Evans	4	Affected Samoa from Dec 11 – 15 (Cat 2) Winds of 55 – 72 mph	WST\$465mil
Feb 10 – 23/2005	Olaf	5	Affected Samoa from Feb 10 – 13 (Cat 1) then intensify rapidly to Cat4 as it moves east-south-east Winds of 39 – 54 mph	n/a
Dec 25 – Jan 12 2003/2004	Heta	5	Affected Samoa from Jan 2 – 4 (Cat 2) Winds of 55 – 72 mph	NZ\$85mil
Dec 4 – 17/1991	Val	4	Affected Samoa from Dec 7 – 9 (Cat 4) Winds gust exceeding 145mph (230km/h)	WST\$700mil
Jan 30 – Feb 10 1990	Ofa	4	Affected Samoa from Feb 1 – 4 (Cat 3) Winds gust exceeding 95mph (150km/h)	WST\$300mil

Season

Baseline(30 years  
1981-2010

Actual

Comment

Responsible  
Ministry

## Climate Change Mitigation

(i) Electricity/ Renewable Energy	Total(tCO <sub>2</sub> e) Jan-Oct 2019	Total (kWh) Jan-Oct 2019	%Electricity Generation (Jan 2010 - Oct 2019)	Responsible Agency
Hydro	23,351,600.74	38,296,625.22	26.6%	EPC
Wind	122,621.95	201,100.00	0.1%	EPC
Solar	12,275,198.66	20,131,325.80	14.0%	EPC
Biomass	Afolau Biomass Gasification Plant construction commenced in July 2019. Commissioning of the plant is scheduled for February 2020.			STEC

### (iv) Forestry

Forest Cover	Baseline 2017	Auctual	Comment	
MNRE	National Forest	439,789 trees	386,145 trees planted/dispatched – MNRE	MNRE
2015 – Oct 2019	Inventory Report 2017	planted/ dispatched	53,644 seedlings planted/dispatched – Private & Communities	
(Two Million Tree Planting Campaign	165,048.89ha (58%) 45,736,227 c-ton	436.17 hac area planted	(verification and data collection in progress for communities and private organisation/NGOs)	

mm- millimeters  
mph- miles per hour  
TD- Tropical Depression

Ha - hectares  
C - Degrees Celsius  
Kwh - kilowatt hour  
tCO<sub>2</sub>e- carbon equivalent

Sq.km - square kilometres  
TC- Tropical Cyclone  
c-ton -carbon tonne



## Climate Change Governance

Activity	Yes/No	Timeframe	Status	Responsible Agency
National Climate Change Policy	Yes		Stakeholder consultation	MNRE
Community Integrated Management Plans (CIM) 43 Plans	Yes	2019- 2029	Implementation phase	MNRE /All Stakeholders
<b>International obligation to UNFCCC</b>				
Samoa's 3rd National Communication Report -National Circumstances -National GHG Inventory -Vulnerability & Adaptation Assessment Development the First Biennial Update Report (BUR) on Climate Change / Knowledge Management M & E			inception workshop	MNRE

## Climate Change Financing

NATIONAL PROJECTS					
Partner/Source	Project Title / Grant	Amount (USD)	Status (% of Delivery) June -Oct 2019	Remaining Funds as at Oct	Responsible Agency
Global Environment Facility	SMSMCL(2015-2020	\$4,736,363.00	\$3,694,363.00 / 82%	\$496,321.82	MNRE/Mof
	EWACC (2015-2021)	\$12,322,936.00	\$7,886,679.00 / 65%	\$1,703,284.66	MNRE/MOF
	IMPRESS (2017-2022)	\$6,125,828.00	\$3,128,002.10 / 51%	\$680,345.08	MNRE/MoF
Green Climate Fund	Component 2.2 (2017 -2023)	\$8,884,700.00	1,484,677.00 / 17%	\$6,959,301.00	MoF/ MNRE
IDA/World Bank Climate Investment Funds	ECR/PPCR project (2013-2020)	\$14.600,000.00	\$7,423,507.15 / 53%	\$6,057,989.54	MoF/MNRE
REGIONAL PROJECTS					
Global Environment Facility	Ridge to Reef R2R (2016-2019)	\$200,000.00	117371.47 / 60%	-\$30,320.00	MNRE
IDA/World Bank	Pacific Resilience Project PRP (2016-2022	\$16.293,000.00	\$4,026,423.25.00 / 25%	\$11,496,920.02	MNRE/MOF