



### Climate Outlook

| ITEM  | Baseline (30 years 1981-2010)            | Actual  | Comment   | Responsible Ministry |
|---|--|---|---|----------------------|
| <b>Rainfall Monthly</b>   |  |   |   |                      |
| Jan-19  | 447 mm                                   | 238.7mm   | Jan – Apia recorded below average rainfall compared to its normal rainfall.   | MNRE/MET             |
| Feb-19  | 361 mm                                   | 554.0mm   | Feb – Apia registered above average rainfall.<br>No clear trend for Apia rainfall from 1958-2018, but shows substantial variation from year to year.  | MNRE/MET             |
| <b>Temperature</b>  |  |   |   |                      |
| Jan-19  | 30.4°C (max)<br>24.2°C (min)             | 31.0°C<br>25.4°C  | Apia January 2019 was 0.6°C warmer compared to its 30year average whereas February remains the same.  | MNRE/MET             |
| Feb-19  | 30.5°C (max)<br>24.3°C (min)             | 30.5°C<br>25.4°C  | On record, year 2014, 2015 and 2016 were the warmest years on record where 2016 registered the highest average temperature of 28.6°C.   | MNRE/MET             |
| <b>Sea Level Rise (not applicable - long term)</b>                                |  |   |   |                      |
| Jan-19  | 4mm/yr                                   | 4.5mm/yr  | From Samoa tide gauge data – note also Geo-science Australia is continuing to monitor the earth movement to correct sea level rise  | MNRE/MET             |
| <b>Tropical Depressions(TD) (SW Pacific Region: 160°E – 120°W and 00 to 25°S)</b> |  |   |   |                      |
| Jan-19  | N/A                                      | Sep 2018: 1 TD<br>Nov 2018: 1 TD<br>Dec 2018: 3TD<br>Jan 2019: None<br>Feb 2019: 6 TD<br>Mar 2019: ?<br>Apr 2019: ? | Sep 2018: TD01F<br>Nov 2018:TD02F<br>Dec 2018: TD03F, TD04F, TD05F<br>Feb 2019: TD06F, TD07F, TD08F, TD09F, TD10F, TD11F<br>Mar 2019: ?<br>April 2019: ?<br>Total of 11 Tropical Depression developed within the region.  | MNRE/MET             |
| <b>Tropical Cyclones (TC) (SW Pacific Region: 160°E – 120°W and 00 to 25°S)</b>   |  |   |   |                      |
| Jan-19  | 7-11 named TC from Nov 2018 – April 2019 | Sep 2018: 1<br>Nov 2018: None<br>Dec 2018: 1<br>Jan 2019: None<br>Feb 2019: 3<br>Mar 2019: ?<br>Apr 2019: ?         | Sep 2018: TC Liua (TD01F)<br>Dec 2018: TC Mona (TD04F)<br>Feb 2019: TC Neil (TD07F)<br>TC Oma (TD09F)<br>TC Pola (TD11F)<br>Total of 5 named Tropical Cyclone (TC) developed in our region so far for 2018/19 season.<br>Note, TC Liua developed in September prior to the official start of the TC season i.e Nov 2018 – April 2019. | MNRE/MET             |

### Climate Change Mitigation

| (i) Electricity (for the year 2018) | Carbon Equivalent (tCO <sub>2</sub> e)      | Units (million kWh) | Comment                           | Responsible Agency |
|-------------------------------------|---|---------------------|-----------------------------------|--------------------|
| Hydro                               | 30,598                                      | 47,866,893          | 68.3% of RE-generated electricity | EPC                |
| Wind                                | 112   | 174,800             | 0.2% of RE-generated electricity  | EPC                |
| Solar                               | 14,120                                      | 22,089,343          | 31.5% of RE-generated electricity | EPC                |
| Biomass                             | Biomass plant has not yet been constructed. |                     |                                   | STEC               |
| Methane -Landfill                   | No methane data collected at the landfill   |                     |                                   | MNRE               |



### Climate Change Mitigation

| (ii) LTA - Transport Sector                                 | Baseline 2017       | total # of cars 2018 | total emissions - 2019                       | Responsible Ministry |
|---|---------------------|----------------------|--|----------------------|
| # of vehicles and total GHG emission from transport sector. | 23,323/             | 25,289/              |  | LTA                  |
| volume of fuel  |                     |                      |  | MOF                  |
| <b>(iii) Forestry Forest Cover</b>                          |                     |                      |  |                      |
| MNRE  | 165,048.89 ha (58%) | 45,736,227 c-ton     | NFI Report 2014<br>Area planted: 2015 - 2019 | MNRE                 |
| STEC<br>MAF   | 359.92 ha (0.13%)   | 99,732 c-ton         |  | STEC<br>MAF          |
| <b>(iv) Ocean Carbon sink</b>                               |                     |                      |  |                      |
| EEZ – 120,000 sq. km  |                     |                      |  | MOF                  |

### Climate Change Governance

| Activity   | Yes/No | Timeframe                    | Status    | Responsible Agency    |
|--|--------|------------------------------|-----------|-----------------------|
| Climate Change Bill                                  | No     | To be finalised by June 2019 | Draft     | MNRE                  |
| CC Strategy for Agriculture Sector                   | Yes    | 2015- 2017                   |           | MAF                   |
| CC Strategy for Health Sector                        | Yes    | 2015 - 2017                  | Completed | MoH                   |
| CC Strategy for Tourisms Sector                      | Yes    | 2012-2017                    | Completed | STA                   |
| Community Integrated Management Plans (CIM) 43 Plans | Yes    | 2019 – 2029                  | Completed | MNRE/All Stakeholders |

### Climate Change Financing

| Partner/Source              | Grant/Loan             | Amount (USD)                  | Status (% of Delivery) December 31st 2018 | Responsible Agency                                     |
|-----------------------------|------------------------|-------------------------------|---|--|
| Global Environment Facility | Grant SSMCL(2015-2020) | 4,700,000.00                  | 60%                                       | MNRE/MoF   |
|                             | EWACC (2015-2020)      | 12,300,000.00                 | 60.1%                                     |  |
|                             | IMPRESS (2017-2020)    | 6,076,000.00                  | 5%  |  |
| Green Climate Fund          | Grant                  | USD 57.718 Million            | 12%                                       | MOF  |
| Adaptation Fund             | Grant                  | USD 8,732,351.00 (2014- 2018) | Completed                                 | MNRE/MoF   |
| IDA/World Bank              | Grant                  | USD 2.90 Million              | 100% complete                             | MNRE/MoF/<br>LTA/MWTI/<br>MAF<br>MNRE /Mof<br>MNRE Mof |
|                             | ERAP                   | 8,050.000                     |   |  |
|                             | ERCC/PPCR              | 14,600.000                    |   |  |
|                             | PRP                    | 13,800.000                    |   |  |