

POWER SYSTEM NETWORK
UPOLU SYSTEM
UPDATED FEB 2018

FIAGA DIESELPLANT

FULUASOU SUBSTATION
AND MAIN NCC

TANUGAMANONO SUBSTATION

LALOMAUGA HYDRO PLANT

TAELEFAGA HYDRO PLANT

FIAGA / FULUASOU OH 33kV TIE

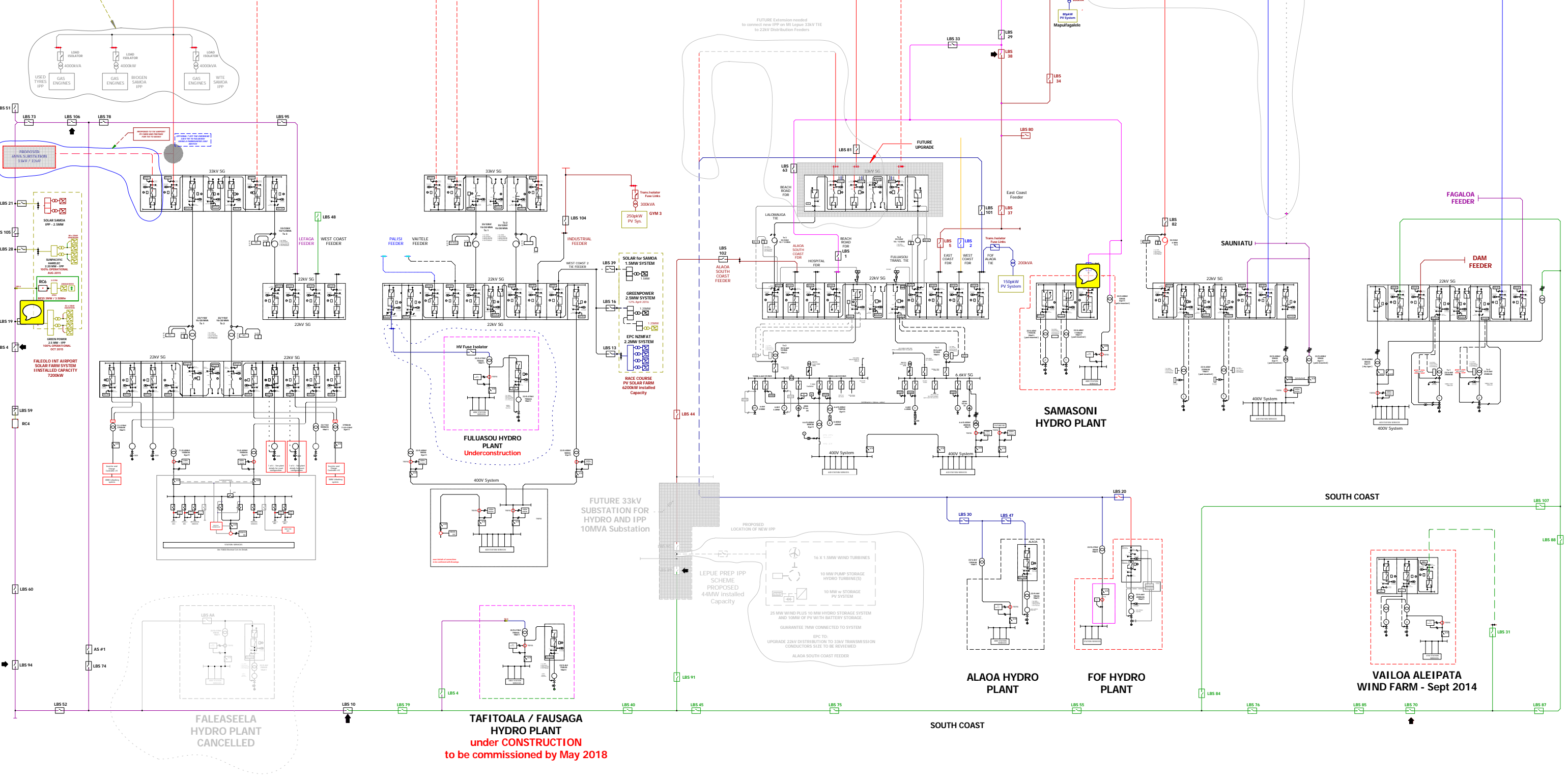
FULUASOU / TANUGAMANONO UG 33kV TIE

TANUGAMANONO / LALOMAUGA OH 33kV TIE

LALOMAUGA / TAELEFAGA OH 22kV TIE

FIAGA / FULUASOU UG 33kV TIE

TAMANGATA IPP
SYSTEMS PROPOSED TO BE
IMPLEMENTED
(2015-2017)



TAFITOALA / FAUSAGA
HYDRO PLANT
under CONSTRUCTION
to be commissioned by May 2018

FALESEELA
HYDRO PLANT
CANCELLED

SAMASONI
HYDRO PLANT

VAILOA ALEIPATA
WIND FARM - Sept 2014

FUTURE 33kV
SUBSTATION FOR
HYDRO AND IPP
10MVA Substation

PROPOSED LOCATION OF NEW IPP

LEPUE PREP IPP
SCHEME
PROPOSED
44MW Installed
Capacity

16 x 1.5MW WIND TURBINES

10 MW PUMP STORAGE
(HYDRO TURBINE(S))

10 MW w/ STORAGE
PV SYSTEM

25 MW WIND PLUS 10 MW HYDRO STORAGE SYSTEM
AND 10MW OF PV WITH BATTERY STORAGE.

GUARANTEE 7MW CONNECTED TO SYSTEM

EPC TO
UPGRADE 22kV DISTRIBUTION TO 33kV TRANSMISSION
CONDUCTORS SIZE TO BE REVIEWED

ALAOA SOUTH COAST FEEDER

SAUNIATU

SOUTH COAST

SOUTH COAST

FAGALOA
FEEDER

DAM
FEEDER

FUTURE Extension needed
to connect Customers on 33kV TIE
to 22kV Distribution Feeders

FUTURE Extension needed
to connect new IPP on 33kV TIE
to 22kV Distribution Feeders

FUTURE
UPGRADE

PARAKOVIKI
SOLAR FARM SYSTEM
3.5MW / 7.52MW

SOLAR SAMOA
IPP 1.5MW

FALEOLO INT AIRPORT
SOLAR FARM SYSTEM
INSTALLED CAPACITY
7200kW

SOLAR FOR SAMOA
1.5MW SYSTEM

GREENPOWER
2.5MW SYSTEM

EPC NZMFAT
2.2MW SYSTEM

RACE COURSE
PV SOLAR FARM
4200kW Installed
Capacity

150kW
PV System

200kVA

6.6kV SG

400V System

400V System

400V System

400V System

400V System

400V System

400V System

400V System

400V System

400V System

400V System

400V System

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400V System