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Samoa's 100% RE target

Outline



- ▶ Background
- ▶ Electricity Sector Reforms
- ▶ RE Trends
- ▶ Summary

Background



- ▶ **100% RE target by 2025** Samoa is rehabilitating old hydropower plants and building new ones to achieve its target of going 100% renewable and wean off its dependence on imported fossil fuels for power generation. When completed, the island nation targets to save about 36 million liters of diesel per year.
- ▶ <https://www.adb.org/news/videos/samoa-going-100-renewable>
- ▶ **Distributed generation:** The existing infrastructure is designed to send electricity from large power stations situated near a fuel source. Distributed generation allows power generation to take place near the load centre.
- ▶ This requires the installation of additional safety equipment and new operational procedures to be designed, compiled and taught to technicians and operators. Although power utilities are large organizations which take many years to change, **change is inevitable.**

REFORMS

Electricity Act 2010



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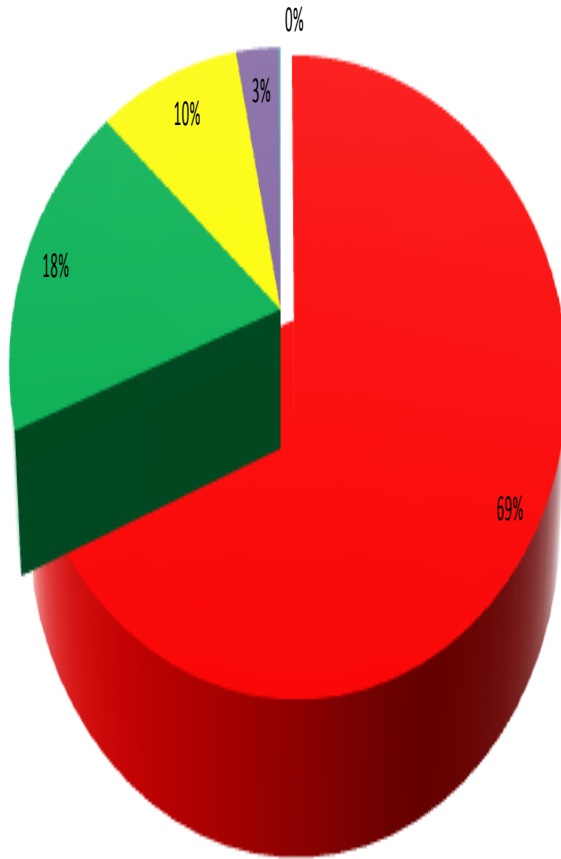
- ▶ Regulatory authority to OOTR
 - ❖ Licensing
 - ❖ Tariff Setting
- ▶ Independent Power Producers –IPP
- ▶ Samoa has 3 IPPs, each with capacity of 4MW

Generation mix trends



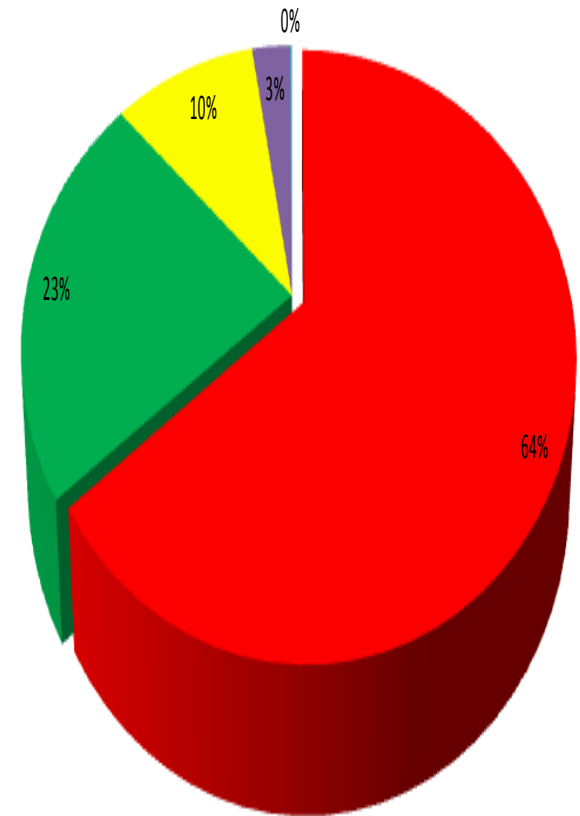
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Generation Mix FY2016/17



■ Diesel ■ Hydro ■ IPP ■ EPC Solar ■ Wind

Generation Mix FY2017/18

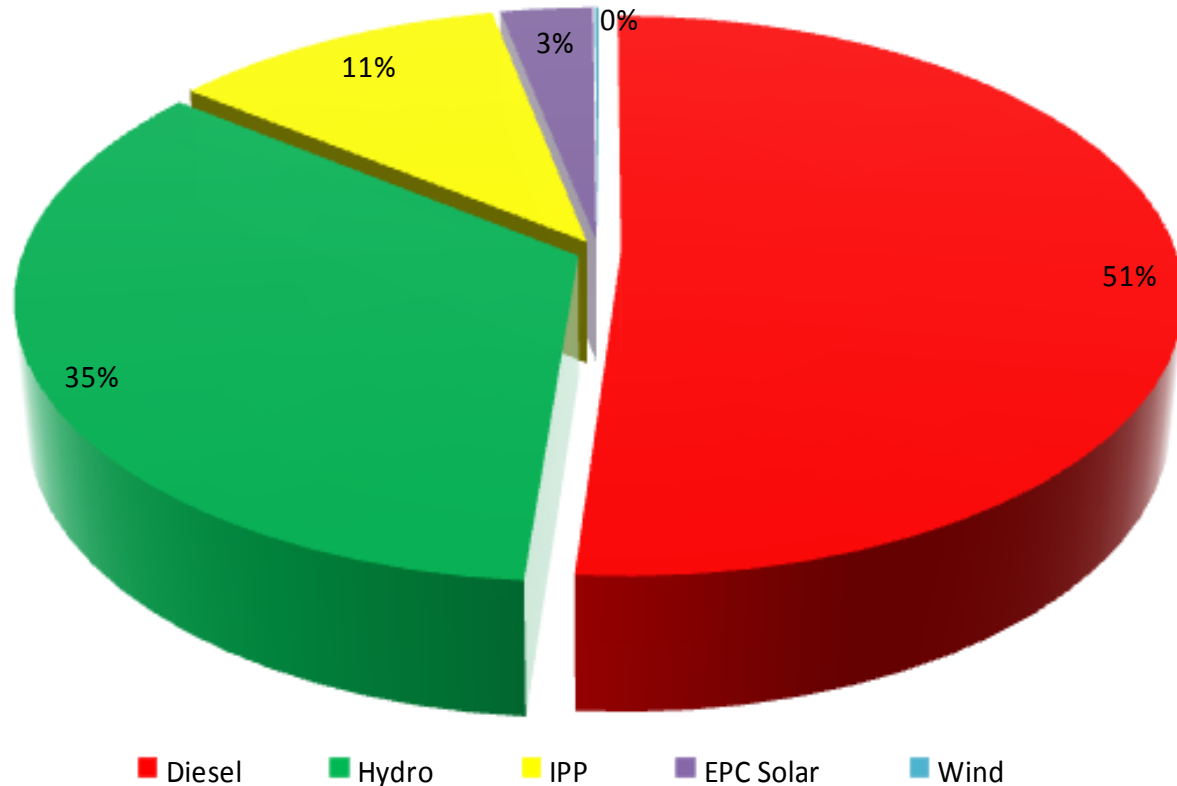


■ Diesel ■ Hydro ■ IPP ■ EPC Solar ■ Wind

Generation mix trends



Generation Mix FY 2018/2019



SUMMARY

Regulator's Role



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- ▶ Feed-in Tariff Policy
- ▶ RE Policy for small scale projects – Net Billing
- ▶ Grid Code / Power Purchase Agreement
- ▶ Electricity Rules

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