

Policies and Regulations to Promote Digital Management of Rooftop PV: Australia



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IEA PVPS Task 18

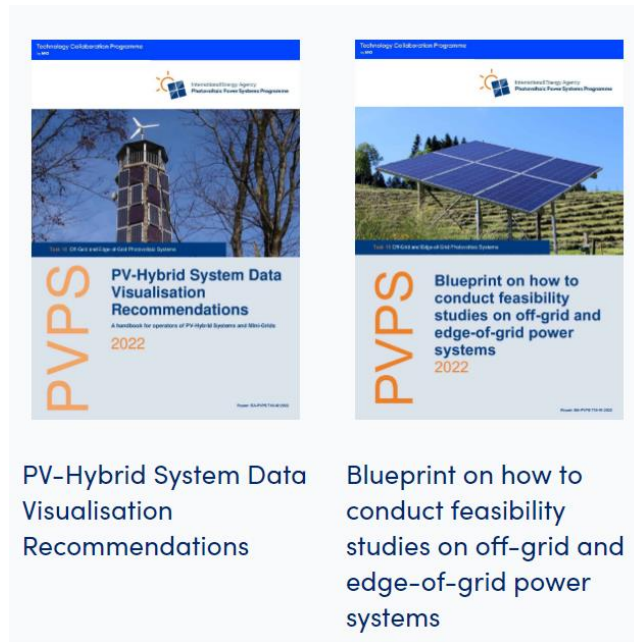
Task 18 - Off-Grid and Edge-of-Grid PV Systems

Task 18 formed in March 2020 and has contributing members from Malaysia, Turkey, Australia, Spain, Canada, Netherlands, Germany, Indonesia and Ecuador.

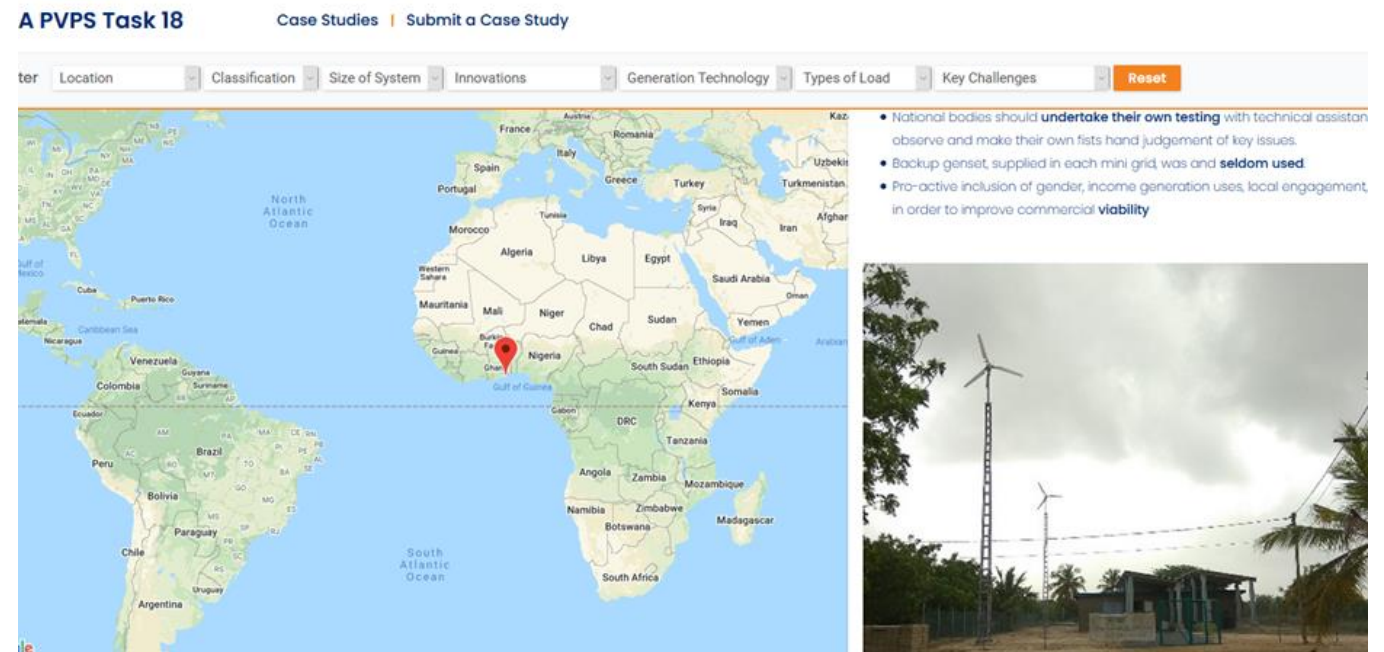
Task 18's mission is to explore techno-economic issues within off-grid and edge-of-grid projects executed globally. Task 18 then seeks to add value by collaborating across borders to address these issues with research based reports and tools.



DELIVERABLES

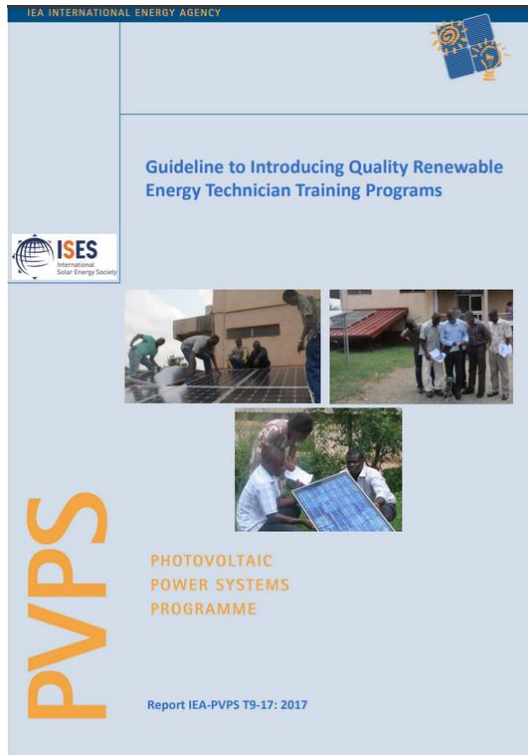


REPORTS

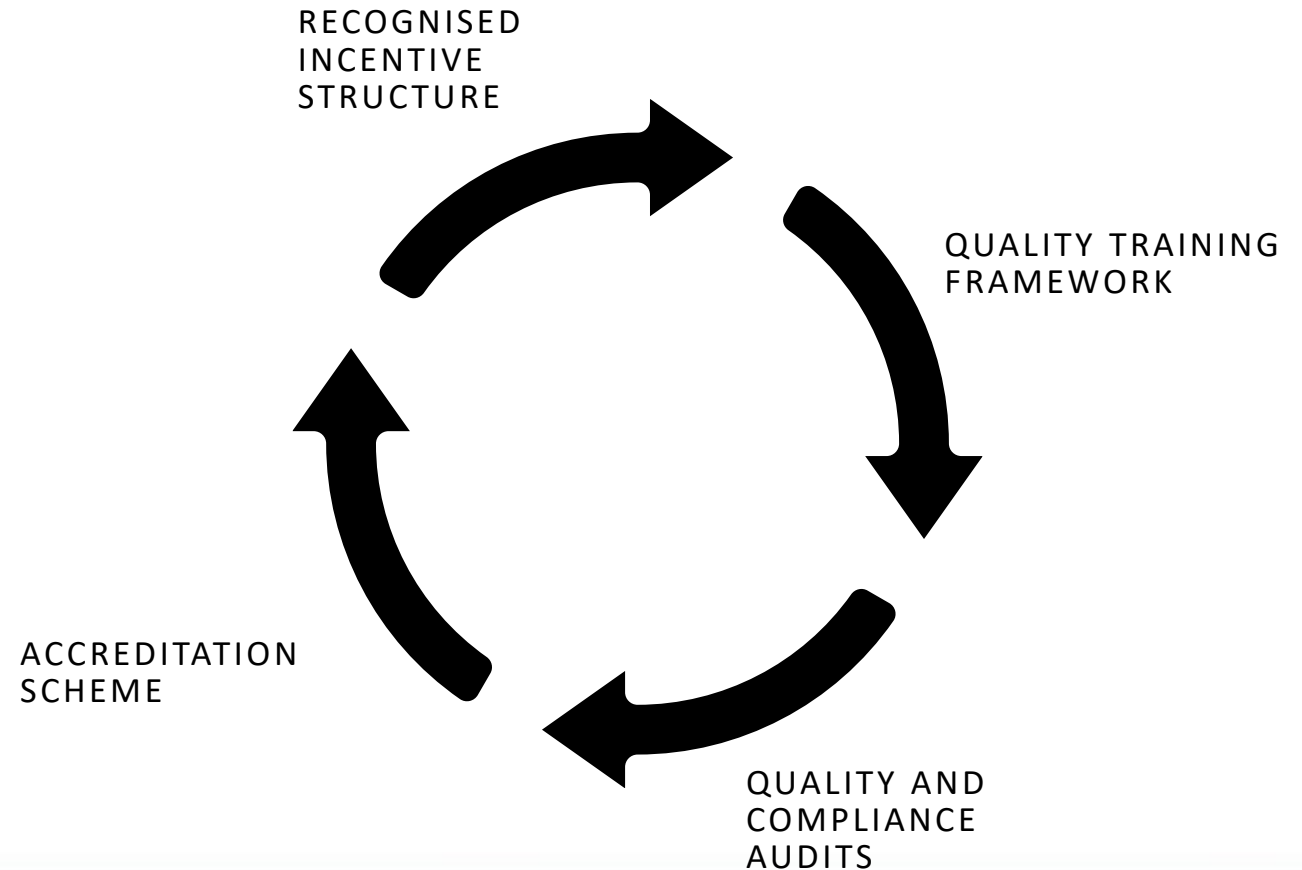


CASE STUDY MAP (CURRENTLY IN TRANSITION)

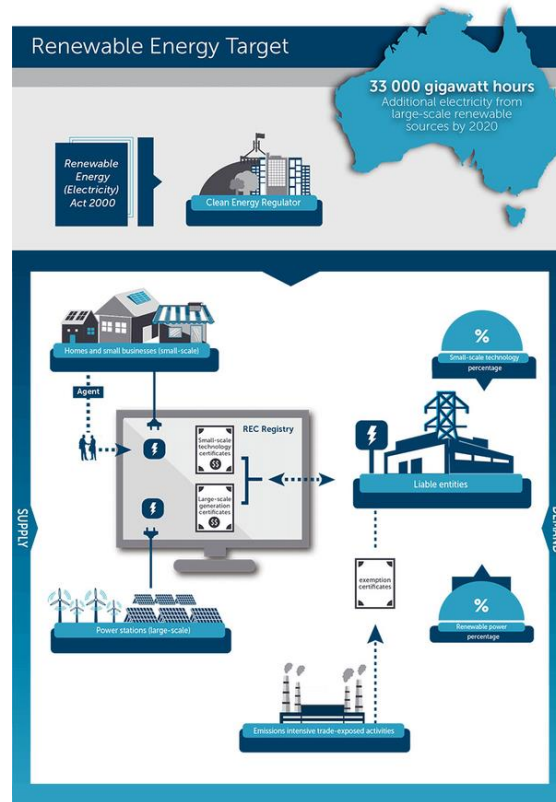
QUALITY INDUSTRY FRAMEWORKS



[HTTPS://IEA-PVPS.ORG/WP-CONTENT/UPLOADS/2020/01/GUIDELINE_TO_INTRODUCING_QUALITY_RENEWABLE_ENERGY_TECHNICIAN_TRAINING_PROGRAMS_.PDF](https://iea-pvps.org/wp-content/uploads/2020/01/GUIDELINE_TO_INTRODUCING_QUALITY_RENEWABLE_ENERGY_TECHNICIAN_TRAINING_PROGRAMS_.PDF)



AUSTRALIAN EXAMPLE



RECOGNISED INCENTIVE STRUCTURE

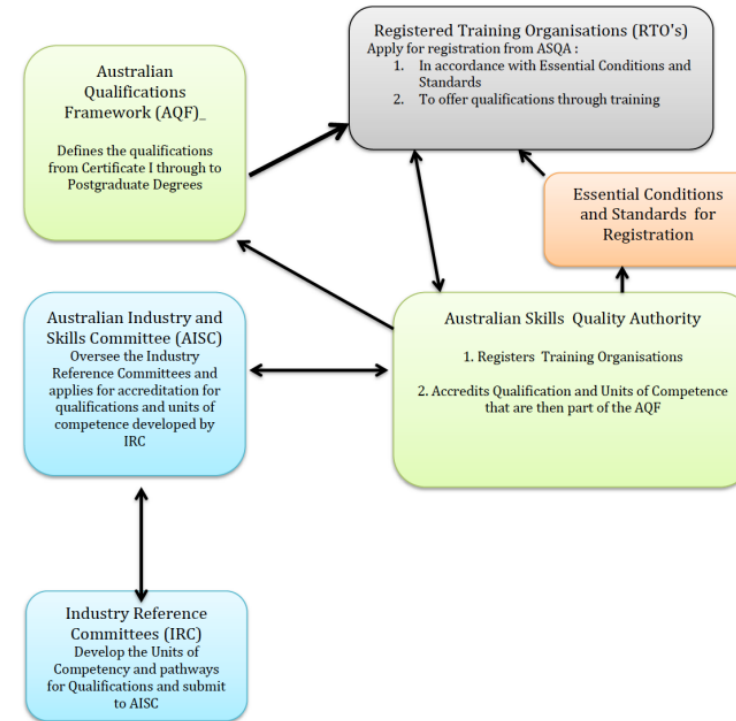


Figure 1: Australian Quality Training Framework Flowchart

QUALITY TRAINING FRAMEWORK

AUSTRALIAN EXAMPLE (CONT..)



ACCREDITATION SCHEME



QUALITY AND COMPLIANCE AUDITS

Rooftop PV: Australia



Market Mechanisms

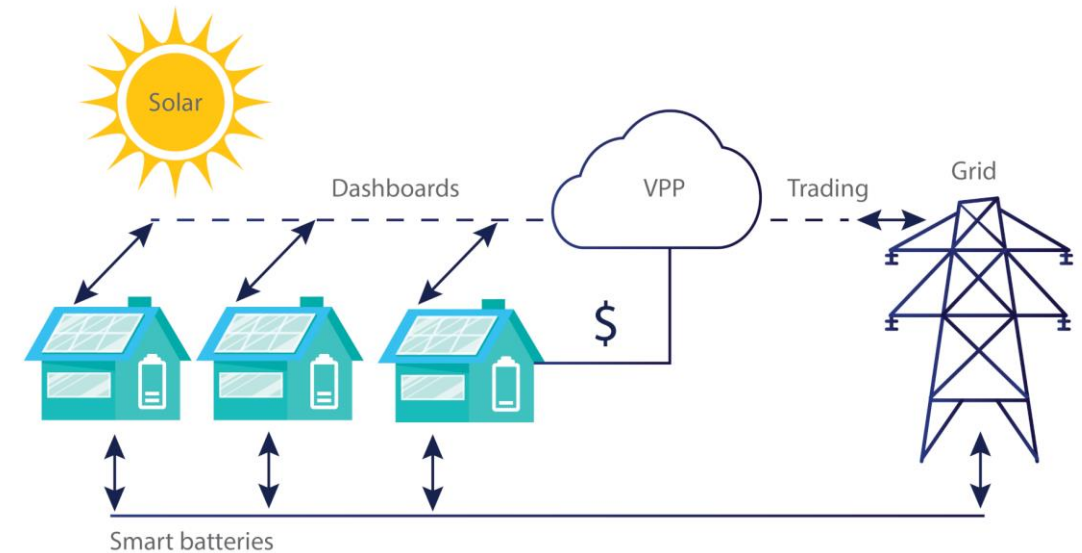
Demand Response – Contracts for supply or demand at and for a prescribed time

Frequency Control Ancillary Services (FCAS) – Regulated participants (including aggregators) can add supply or demand based on frequency response

Wholesale Market Arbitrage – Regulated participants (including aggregators) can add supply or demand based on whole sale energy prices

Local Voltage Market – Contracts with regulated Energy Distributors for supply or demand based on the local voltage

These mechanisms have given rise to Virtual Power Plants (VPPs) in Australia.



Homes and business that engage in VPPs generally have oversupply of solar and BESS and may have EVs and all electric appliances. With this flexible load/supply and VPP aggregators playing local and national markets, Australia is chasing stable and low cost energy supply

- The market drives uptake
- The industry framework ensures quality
- The right markets with the right regulation drive energy security
- Allowing regulated competition pushes prices lower

Thank You

For discussions/suggestions/queries email: isuw@isuw.in

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Links/References (If any)