



O&M Services

Looking towards future horizons



The future happens here

FRV is a **global provider of renewable energy solutions** in Australia, Asia, the Middle East, Africa, Europe and Latin America.

For customers seeking comprehensive O&M Services including:



MONITORING



DATA ANALYSIS

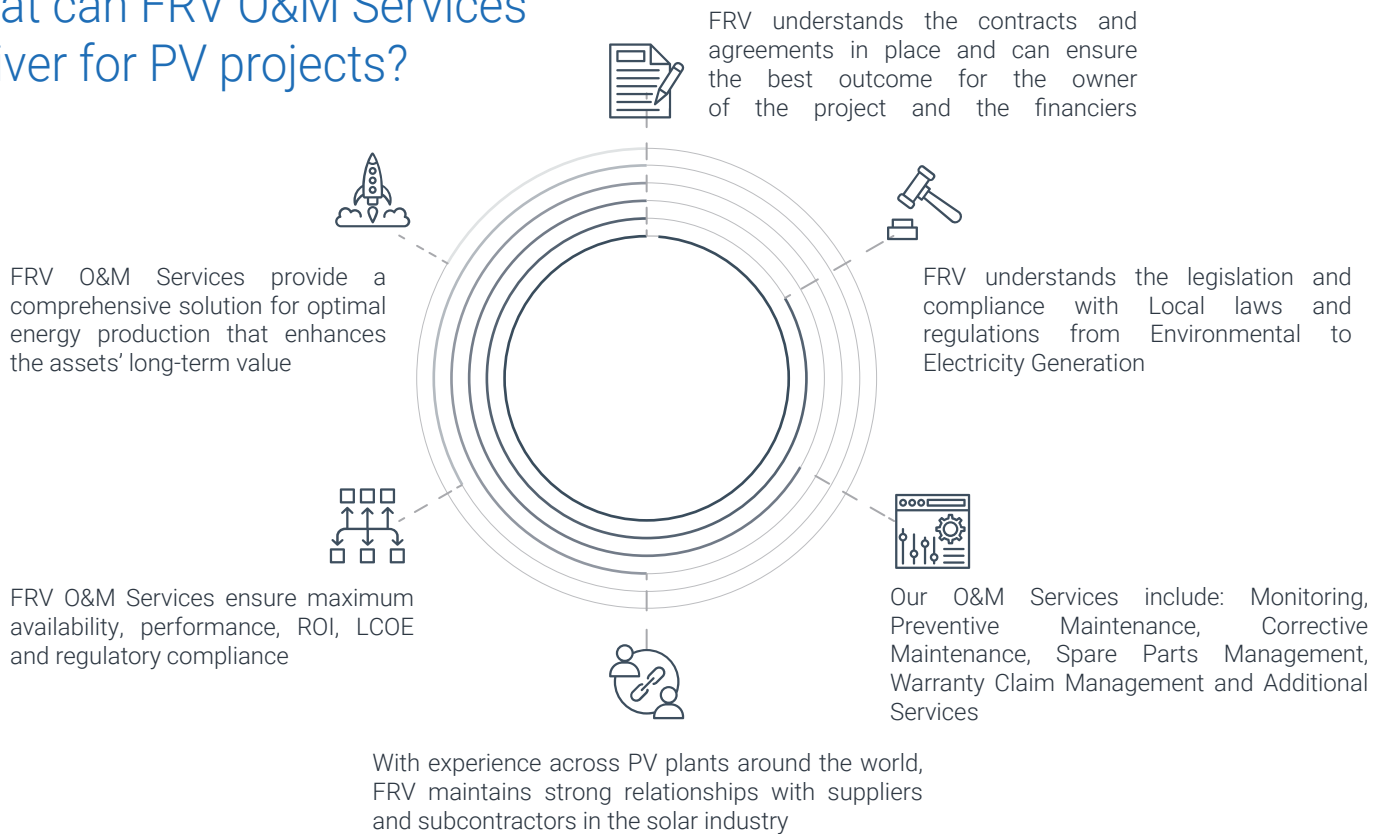


MAINTENANCE



ADDITIONAL SERVICES

What can FRV O&M Services deliver for PV projects?



Included

Cost plus not included

Maintenance (preventive and predictive)	Basic	Comprehensive
PV Modules		
Visual inspection		
Module cleaning		
Thermography		
Trackers/Fix structure		
Visual inspection		
Scheduled maintenance		
LV/Dc Cabling		
Visual checks		
Continuity and dielectric test		
Thermography cables		
Thermography connectors		
Combiner Boxes		
Inspection		
Scheduled maintenance		
Thermography level 1 and 2 combiner boxes		
Inverters Maintenance (Central and String Inverters)		
Inspection		
Level 1 (Scheduled maintenance)		
Level 2 (Minor correctives and parts replacement)		
Level 3 (Firmware updates and major correctives)		
Thermography (Inverters, nodes and IGBTs)		
Transformer Stations		
Inspection		
Scheduled maintenance		
Thermography		
Ground resistance measurement		
Oil sample		
HV / AC cabling and RMU		
Visual checks		
Switchgear scheduled maintenance		

	Basic	Comprehensive
Continuity and dielectric test		
Thermography cables		
Thermography connectors		
Substation		
Visual inspection		
Scheduled maintenance		
Battery charger		
Switchyard thermography		
Voltage testing		
Dielectric oil degradation test		
Metrological Sensors/Utility Meters		
Inspection		
Sensors scheduled maintenance		
Calibration		
Communications		
Fibre and cabling inspection		
Server and routers inspection		
Security Camera/CCTV Maintenance		
Inspection		
Scheduled maintenance		
Monitoring and SCADA Maintenance		
Inspection and data tests		
Fire Prevention System		
Inspection and test		
Backup Generator/Batteries		
Inspection		
Scheduled maintenance		
Civil Maintenance		
Inspection		
Vegetation Control		
Vegetation clearing		
Buildings Maintenance		
Inspection		
General cleaning		

Commercial Offer for FRV and Third party

● Included ○ Cost plus not included

	Basic	Comprehensive
Corrective Maintenance		
Corrective Maintenance (labour)	○	●
Equipment Supply	○	○
Additional Services		
Security remote surveillance	○	●
Pest and rodent control	○	●
Waste management	○	●
Road corrective maintenance	○	○
Buildings corrective maintenance	○	○
Snow removal	○	○
HVAC maintenance	○	●
Landscaping and watering	○	●
Septic tank maintenance	○	●

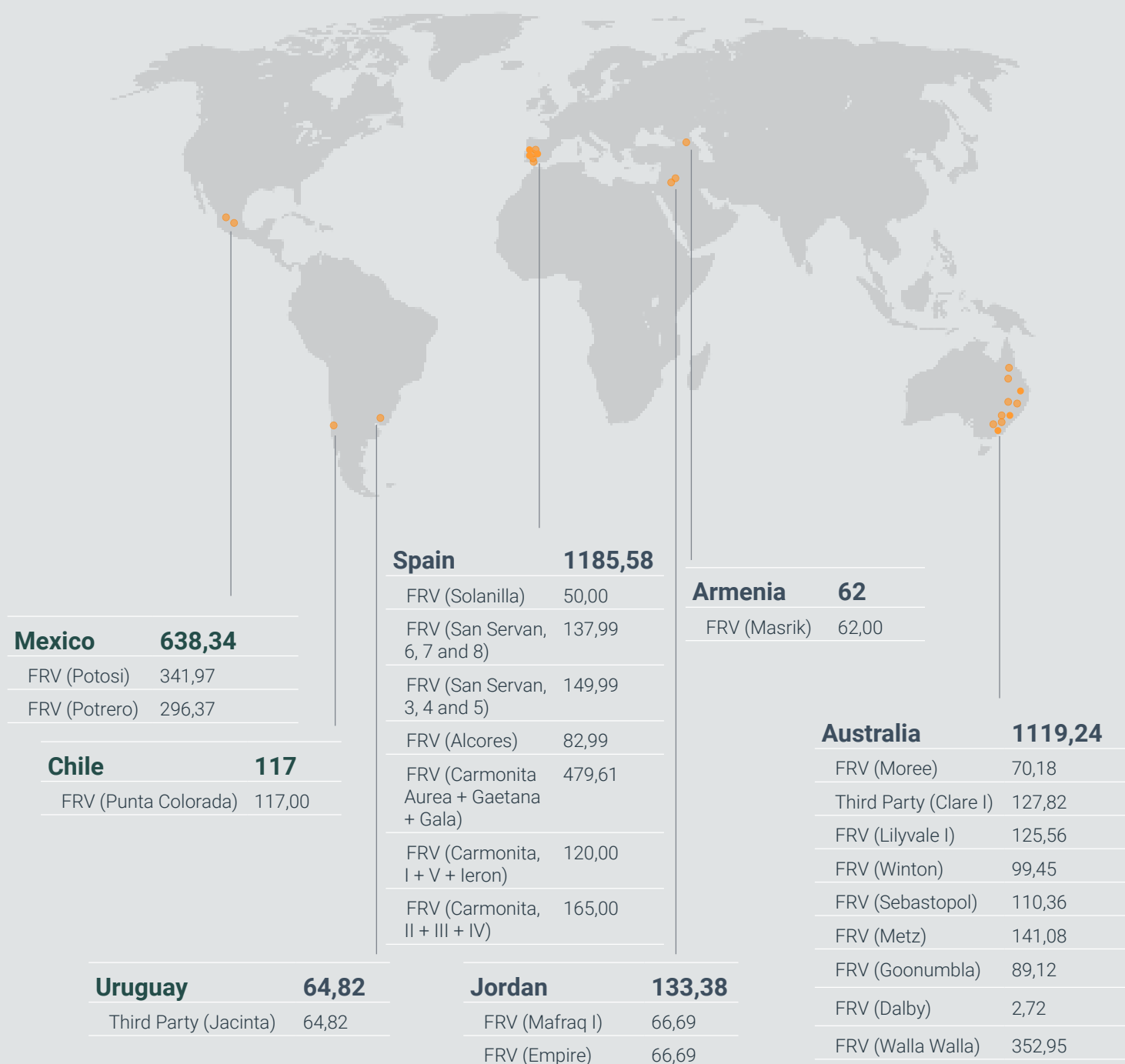
	Basic	Comprehensive
Operations		
Monitoring	●	●
Real-time supervision	●	●
Remote plant monitoring	●	●
Ticketing service	●	●
24/7 emergency service	●	●
Performance and KPIs analysis	●	●
Issue detection	○	○
Dispatching		
Operation and Control	●	●
Plant controls	○	○
Power output forecasting	○	●
Grid operator interface	●	●
Maintenance scheduling		
Management		
Plant documentation management	●	●
Warranty claim management		●
Spare parts control and management	○	●
Spare parts procurement	○	○
Consumables procurement and management	○	●
Reporting		
Weekly	○	●
Monthly	●	●
Annually	●	●
WHS & EHS	●	●
Quality assurance		●
Environmental assessment	●	●
Guarantees		
Availability guarantee	●	●
Performance guarantee	○	○
Response time guarantee	○	●

FRV Portfolio

33
PLANTS

>3
GW

7
COUNTRIES





Contact us
www.frv.com