

Draft Programme

Tentative Agenda

Rarotonga, Cook Islands 20 -23rd April 2026

Day 1: Monday 20th April 2026

TIME	TOPICS	Facilitator /Presenter
08:30 – 0900	Registration	
0900 - 0920	Opening Prayer	Cook Is participant
	Welcome and Opening Remarks	TAU
	Remarks from SPC	SPC /PCREEE
0920 – 09:30	Setting the Scenes: Introduction, views and concerns regarding e-mobility	All – to be facilitated by PCREEE
09:30 – 10:00	Morning Tea	
10:00 – 10:30	Session 1: Energy Sector Overview in the Cook Islands: <ul style="list-style-type: none"> E-mobility – current status and future vision 	Taina Iro, Deputy Director – Ministry of Finance and Economic Management - confirmed
10:30 – 11:00	Session 2: The PCREEE regional e-mobility programme – progress to date, known Emobility demo/pilot projects in the PICs	PCREEE
11:00 – 11:30	Session 3: Where are we going and why? <ul style="list-style-type: none"> E-mobility development – globally A framework for a regional EV roadmap 	PCREEE Consultant – Andrew Campbell.
11:30 – 12:30	Session 4: Country presentation - Part 1 <ul style="list-style-type: none"> Fiji RMI Nauru 	PICs representatives
12:30 – 13:30	Lunch and discussions	
1330 – 1600	Session 4 'con't: Country presentation - Part 2 <ul style="list-style-type: none"> Samoa Solomon Islands Tonga Vanuatu 	PICs representatives
1600 – 1630	Wrap up and final discussions	ALL

Day 2: Tuesday 21st April 2026

TIME	TOPICS	
0900 - 0910	Opening Prayer	TAU
0910 - 1000	*con't country updates"	Andrew
1000 - 1030	Morning Tea	
1030 - 1100	GGGI E-mobility Project (Virtually)	Anant Jha
1100 - 1130	Sum up of the country updates and stocktake	Andrew

1130 - 1300	A foundation on EVs	Andrew
1300 - 1400	Lunch and discussions	
1400 - 1530	Foundation continuation	Andrew???
1530 - 1600	A proposed G2V demonstration project	Andrew
1600 - 1630	Wrap up and final discussions	ALL

Day 3: Wednesday 22nd April [Glenn/TransNet and Daniel/Supernova: Training]

TIME	TOPICS	
0900 - 0910	Opening Prayer and recap on Day 2	Andrew /PCREEE
0910 - 10am	<p>Session 1: Foundations Goal: Make EV charging simple and remove confusion early</p> <ul style="list-style-type: none"> • What EV charging actually is (AC vs DC – simple explanation) • Charging modes (Mode 2 vs Mode 3 vs DC) • Connectors and plugs <ul style="list-style-type: none"> ○ Type 1 vs Type 2 ○ Tethered vs socketed • Portable chargers vs fixed chargers • Key message: <i>Charging is simple — the industry can over complicate it sometimes</i> 	Glenn, TransNet
1000 - 1030	Morning Tea	
1030 - 1100	<p>Session 2: How It Really Works Goal: Build real understanding + introduce control</p> <p>Part 1: Power & Charging Behaviour</p> <ul style="list-style-type: none"> • Single-phase vs three-phase charging • Real-world vs theoretical behaviour • Why single-phase often makes more sense • Phase balancing myths vs reality • “As slow as possible within time available” • Range-adding vs power delivery mindset <p>Part 2: Communication (Core EVSE Function)</p> <ul style="list-style-type: none"> • Control Pilot (CP) <ul style="list-style-type: none"> ○ Signal = current limit ○ Duty cycle concept • Proximity Pilot (PP) <ul style="list-style-type: none"> ○ Cable rating limitation • Who is actually in control (car vs charger) <p>Part 3: OCPP & Backend Systems Goal: Explain what sits behind the charger (without overcomplicating it)</p>	Glenn, TransNet
1100 - 1300		<p>(Guest Session) Delivered by Daniel Mulder</p>

	<ul style="list-style-type: none"> • What OCPP actually is (simple explanation) • Charger ↔ backend communication • What the backend does <ul style="list-style-type: none"> ○ User access ○ Monitoring ○ Payments ○ Reporting <p>Key message:</p> <ul style="list-style-type: none"> • OCPP is not control pilot • It's slow, high-level communication, not real-time electrical control <p>Part 4: Lead-in to Practical</p> <ul style="list-style-type: none"> • What they'll test themselves • Multimeter + duty cycle preview • Cable limiting preview (13 A / 20 A / 32 A) 	
1300 - 1400	Lunch and discussions	
1330 – 1600	<p>Session 3: Safety, Real-World & Future</p> <p>Goal: Confidence, correct installs, and big-picture understanding</p> <p>Protection & Safety</p> <ul style="list-style-type: none"> • RCD types <ul style="list-style-type: none"> ○ Type A vs Type B • RCBO vs RCCB (how to identify, why it matters) • 6 mA DC detection inside chargers • “Seatbelt analogy” <p>Special Topics</p> <ul style="list-style-type: none"> • Open PEN detection (UK vs NZ context) • Common mistakes <ul style="list-style-type: none"> ○ Wrong protection assumptions ○ Misreading cable capability ○ Overcomplicating installs <p>Vehicle-to-X (V2X) – Simple & Practical</p> <p>Goal: Remove hype, show real value</p> <ul style="list-style-type: none"> • V2L (Vehicle-to-Load) → real, usable now • V2H (Vehicle-to-Home) → situational • V2G (Vehicle-to-Grid) → can be complex, limited today – get ready for the future <p>Tie-in:</p> <ul style="list-style-type: none"> • Cars as batteries • Remote/island benefits • Diesel generator = temporary enabler <p>System Thinking (Light Touch)</p> <ul style="list-style-type: none"> • Charging outcome vs charging speed 	Glenn, TransNet and/or Daniel / Supernova

	<ul style="list-style-type: none"> • Designing for “all cars charged” • Intro to load management (only if time) 	
1600 – 1630	Wrap up and final discussions	ALL

Day 4: Thurs 23rd April (half-day)

TIME	TOPICS	
0900 - 0910	Opening Prayer and recap on Day 3	Andrew /PCREEE
0910 – 11:45	<p>Half-Day Practical Session</p> <p>Goal: Make it real and memorable</p> <p>Control Pilot Testing</p> <ul style="list-style-type: none"> • Measure duty cycle with multimeter • Adjust charger current → observe change <p>Proximity Pilot / Cable Limiting</p> <ul style="list-style-type: none"> • Swap resistors: <ul style="list-style-type: none"> ○ 13 A ○ 20 A ○ 32 A • Show car limiting regardless of charger setting <p>Optional (if time allows)</p> <ul style="list-style-type: none"> • Basic fault scenarios • Signal loss / incorrect wiring behaviour 	Glenn, TransNet