

SUMMER SCHOOL+ 2022

26 APR - 6 MAY



Tuesday 26 April - Friday 6 May 2022

2022 Theme:

Thriving in Uncertainty and Harnessing Opportunity

Building the knowledge, insights and connections to enable success in these times of unprecedented uncertainty and opportunity.

Aims of Summer School

- ✓ Provide an understanding of the industry drivers and key issues for power engineers with 4-15 years of experience from all sectors of the industry (i.e. generation, renewables, transmission, distribution, consulting, manufacturing, end users); can include para professionals
- ✓ Provide experienced engineers from other industries, joining the power industry, with power engineering applied fundamentals and best practice
- ✓ Provide accelerated technical leadership skills and awareness of technology to enhance business performance through high performing power engineering staff
- ✓ Bring industry personal with diverse backgrounds together to share learnings and experiences in order to develop personal networks for ongoing future career development

Venue

Stamford Grand Hotel,
Glenelg, South Australia

What is included?

Your investment in the Summer School includes the renowned 2-week residential event, with 60+ expert speakers, syndicate projects, site tours and the online Strategic Insights modules featuring power sector executives and CEOs.

Registration costs cover all charges for accommodation and meals (including all group dinners and functions), transfers to/from airport, and site tours, digital copies of presentations, and online activities pre and post the live event. Also a certificate for professional development (CPD) aligned with Engineers Australia's guidelines.

2022 Registration timing:

Early Bird: 1 NOV 2021

Final: 10 DEC 2021

Note that the online modules commenced in March 2021 and new registrations will be accessing recordings of these activities.

How will delegates personally benefit?

- ✓ Through accelerated development in the power sector's leading professional development program, you will reduce the need to attend multiple development activities.
- ✓ Strengthen your understanding and skills on strategic technical issues, increase your network of professional contacts,
- ✓ Be better prepared and positioned for professional advancement and including developing your skills for executive-level communication

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A PLUS approach to Summer School for 2022

The 2021 Summer School was unfortunately cancelled due to COVID but it did inspire us to develop and test some exciting new additions to the Summer School format for 2022.

Online Executive Insights sessions will be held before and after the 2-week residential modules (and we'll be using the recordings of the sessions from mid 2021). You'll connect with senior leaders from across the sector and work on a group response to a Challenge Question that uses the knowledge you gain from the School.

The purpose of these session is to strengthen your understanding of:

- ✓ The strategic challenges and opportunities that our industry's leaders see for the sector and organisations;
- ✓ Their tips on mindset and the process of approaching strategic challenges; and to
- ✓ Strengthen professional networks across industry with multiple opportunities to engage with leaders in the power sector

Powerful Women Leadership Development program

15+ extra participants will join the Summer School through the API's new program including scholarships supported by the Australian Government's Department of Prime Minister and Cabinet's Women's Leadership Development program.

With an expected 50+ delegates (including 31 from the rescheduled 2021 event) **Summer School 2022 will have all the value of the classic residential Summer School PLUS more activities and more delegates for you to connect with and learn from.**

Early Career Residential Retreat

Through the Summer School you will also have an opportunity to connect with 50 female future leaders in power (30 undergrads and 20 grads). They will be joining the Summer School as part of the **Early Career stream** of the **Powerful Women leadership program** to connect with you as future leaders in the power sector, and to experience their own residential retreat from 4-7 May 2022. These future leaders will watch your Syndicate project presentations and join our Future Workforce Forum to improve their knowledge of strategic technical issues in the sector (and parts of the online Executive Insights sessions).

API Future Workforce Forum and Summer School Dinner

Our 50+ Summer School participants, 50+ Early Career future leaders, the API Board and other API stakeholders will explore the key issues that will shape the development of the power sector workforce and the transformation of Australia's energy systems.

"Survey statistics consistently prove that delegates consider it an honour to attend the API Summer School"



UNIQUE RESIDENTIAL + ONLINE PROGRAM:

- ✓ Residential, intensive two week program in a first class learning and accommodation environment – past delegates and our speakers consider it an honour to attend and connect with the other participants
- ✓ Mix of expert presenters, panels/forums, site visits and group project work, to support different learning modes and ensure maximum learning outcomes.
- ✓ Each day's program will commence with an intro to the *Drivers, Key Issues* and *Fundamentals* of the "daily theme" and then build towards options, solutions, and explore the industry best practices.
- ✓ Each session will have ample question time to facilitate interaction between delegates and expert presenters
- ✓ Extensive use of case studies to share learnings, problems encountered and practical solutions
- ✓ Balance of presentations from industry and universities to ensure a sound understanding of fundamentals and practical application within industry
- ✓ Multiple opportunities for building strong connections with other school participants and high performing technical leaders in the industry
- ✓ Site visits (Delegates are responsible for providing their personal protective equipment (PPE))
- ✓ This is an immersive program with long days, but also opportunities to explore local attractions during limited leisure time. Note: delegates should plan no other major work commitments during the 2 week period of live Summer School as you will be busy!

WORKING TOGETHER IN PROJECT TEAMS

Syndicate Projects Board Paper + Presentation to Summer School community

During the school you will work in a Syndicate Project team of 3-5 on a defined industry case study and/or problem which will be facilitated by a subject matter expert.

You will develop a Board paper and Board presentation that you will deliver to the community on the final Thursday.

Delegates are requested to select a topic/field that they are not currently working in so that they can widen their knowledge and broaden their outlook

Executive Insights Challenges response

During and after the residential School you will work in a group of 3-5 people to craft a 2-page response to one of the Challenge Questions posed by our 10+ executives.

Together we'll develop and publish a collective response to the 10 key challenges and opportunities facing the sector in 2022.

You'll also share your insights in an online forum after the School with the whole 2022 Summer School cohort, our Executives, other stakeholders and our API Bursary students and the 50+ undergrads and graduates in our new Powerful Women leadership program.

Preliminary Program (to be finalised)

WEEK ONE		Tues 26 APR	Weds 27 APR	Thur 28 APR	Fri 29 APR	Sat 30 APR
Agenda	Column1	An Agile, Innovative Generation Mix	An Agile, Innovative Energy Delivery Sector	Field/Site Tours	Electricity Markets - Journey to the Future	Field/Site Visits
7:00 - 8:30		<i>Breakfast</i>	<i>Breakfast</i>	<i>Breakfast</i>	<i>Breakfast</i>	<i>Breakfast</i>
8:30-9:30		Delegate travel	Open Networks	Site Tours	Energy Market Policy to Address Customer Expectations and Role of Energy Market Commission	Site Tours (morning only)
9:30-10:30		10 am WELCOME	Powerlink Network Visioning		Energy Regulation to Support an Agile, Innovative Industry Meeting Customer Expectations	
10:30-10:45			<i>Morning Tea</i>		<i>Morning Tea</i>	
10:45-11:45		DER – System Integration Issues (UFLS, DER shake-off)	Powerlink Network Visioning /Cont.		Energy Policy Blueprint – A Better Energy Policy for Australia	
11:45-12:45		Customer Distributed Energy Resources and their Integration to the Grid	Designing our Networks for High DER Penetration		Australian Energy Market Operator Role in Transitioning to the Future	
12:45-1:30		<i>Lunch</i>	<i>Lunch</i>		<i>Lunch</i>	
1:30-2:00		Delegate Presentations	Delegate Presentations		Delegate Presentations	
2:00-3:00		Thriving in uncertainty & Transitioning to the Future	System security challenges in SA - Wide Area Protection Scheme		Electric Vehicles in the Grid – Challenges and Opportunities for Sustainable energy and Transport	
3:00-4:00		Syndicate Briefings with Facilitators	Customer Demand Response and Demand Management		Syndicate Work	
4:00-4:15		<i>Afternoon Tea</i>	<i>Afternoon Tea</i>		<i>Afternoon Tea</i>	
4:15-5:30		Syndicate Work	Customer Behaviour in the Energy Sector		Syndicate Work	
6:30 PM	TRAVEL + Arrival	Group Dinner Onsite	Group Dinner Onsite	Exec Insights Group Dinners - Onsite	Group Dinner Offsite	Group Dinner Offsite

WEEK TWO	Mon 2 MAY	Tues 3 MAY	Wed 4 MAY	Thur 5 MAY	Fri 6 MAY	SAT 7 MAY
Agenda	Future Direction, Storage and Data Analytics	Innovation and Agility in Asset Management	Innovation = Good Ideas Successfully Applied	Syndicate Presentations Day	Keynote Presentations	PWLP - EARLY CAREER DAY
7:00 - 8:30	<i>Breakfast</i>	<i>Breakfast</i>	<i>Breakfast</i>	<i>Breakfast</i>	<i>Breakfast</i>	<i>Breakfast</i>
8:30-9:30	Energy Networks Future Directions, Key Drivers and Challenges	System integration Challenges of Synchronous Condensers	Workshop on Mapping Priorities in Innovation	Syndicate Presentations (15-18min/group)	Keynote for ALL participants (PWLP & SS)	PWLP Early career workshops and presentations
9:30-10:30	Effective Integration of Residential Battery Energy Storage Systems	Virtual Power Plants and the Decentralised Energy Exchange	Advanced Virtual Power Plant (VPP) Grid Integration Trial	Powerful Women Leadership Program Early Career as audience	SS Delegate Feedback PWLP Early Career - workshop	
10:30-10:45	<i>Morning Tea</i>	<i>Morning Tea</i>	<i>Morning Tea</i>	<i>Morning Tea</i>	<i>Morning Tea</i>	<i>Morning Tea</i>
10:45-11:45	ElectraNet Dalrymple Battery Energy Storage Project	Leveraging Sensor Data & Machine Learning to Understand How Customers are Using Electricity	Universities and industry to drive innovation for Needs of the Sector	Syndicate Presentations (15-18min/group)	SS Airport Transfers Depart Stamford at 11:30	PWLP Early career workshops and presentations
11:45-12:45	Analytics and Big Data – Facilitating Agile, Innovative Energy Networks	Innovations in Transformer Management	Lessons in Utility Management of DER Assets in Australia	Powerful Women Leadership Program Early Career as audience	PWLP Early career workshops and presentations	
12:45-1:30	<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>
1:30-2:30	Helping distributors manage consumer-owned energy (SHIELD project)	Asset Mgmt/Digital Twins & Responding to Disasters	Flexible Exports for Solar PV	Future Workforce Forum with Summer School and Powerful Women	PWLP Early career workshops and presentations	PWLP Early career workshops and presentations
2:30-3:30	Syndicate Work	Syndicate Work	Quantifying Extreme Bushfire Consequences	Leadership Program Early Career		
3:30-4:00	<i>Afternoon Tea</i>	<i>Afternoon Tea</i>	<i>Afternoon Tea</i>	<i>Afternoon Tea</i>	<i>Afternoon Tea</i>	<i>Afternoon Tea</i>
4:00-5:00	Syndicate Work	Syndicate Work	Syndicate Work [PWLP - early career WORKSHOP]	Forum - PWLP & SS		Delegate Travel for PWLP
6:30	Dinner Onsite	Dinner Onsite	Dinner Onsite	Summer School Gala Dinner	Dinner Offsite	
	Delegates Voluntary "Special Interest Presentations"	CIGRE NGN Presentation	PWLP - Prof & Early Career "Get to know you" WORKSHOP after dinner			

100% of attendees said they would recommend this program to their colleagues.

INVESTMENT (GST INCLUDED)

	Registration costs		Savings on standard non-member	
	Early Bird	Standard	Early Bird	API member organisation
Governor	\$ 10,400.00	\$11,250.00	35%	30%
Principal	\$ 11,250.00	\$12,800.00	30%	20%
Industry	\$ 12,800.00	\$14,350.00	20%	10%
Non-member	\$ 14,450.00	\$15,990.00	10%	0%

Savings are relative to the standard non-member rate and apply based on membership grade of the delegate's organisation and/or early bird registration

ACCOMMODATION – Stamford Glenelg

Venue Facilities:

- Serviced individual Guest Rooms
- Free High-Speed Internet Access in conference areas and rooms
- Stunning beach-side setting in Glenelg
- Purpose Built Meeting Facilities & Spacious Break Out Rooms
- Sporting/Recreational Space
- Airport transfers will be provided to/from venue & local Airport

WHAT DELEGATES HAD TO SAY ABOUT THE 2020 SUMMER SCHOOL

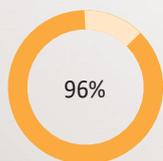
"The API Summer School is the most valuable career development event I've attended in my 10 years in the industry."

"The API Summer School has given me a fresh perspective of our industry and where it is heading. The network of industry contacts I've developed over these two weeks will be invaluable as we tackle the challenges ahead of us!"

"The Summer School in building a network of friendships and connections that I will rely on throughout my career. The technical depth and breadth of the Summer School is unlike any conference I've been to."

"The course gave me an excellent insight to the challenges that the industry as a whole is facing. Prior to the summer school I was concerned about the status of the industry and felt opportunities in the industry may be limited in the future. It has made me optimistic about the future of the industry and the opportunities that exist within the industry."

TESTIMONIAL FEEDBACK & STATISTICS



When asked "The amount of value added to your career development:" 96% of attendees rated this experience "Excellent/Good" for a refresh and update of knowledge and to broaden understanding of best practice in power engineering.

Overall evaluation; 76+% value rated the Summer School "Excellent", with 24+% rating it "Good Value" and 100% of delegates responding they are prepared to recommend the Program/Summer School to their colleagues/managers.



REGISTRATION & FURTHER INFORMATION

To register attendee or speaker position(s), please contact Michelle Murray (Michelle.Murray@api.edu.au).

For the Powerful Women Leadership Program, please contact Kirsten Pain (Kirsten.Pain@api.edu.au)

Technical program inquiries may be addressed to API CEO Dr David Pointing (David.Pointing@api.edu.au).