



St Patrick's College




Launceston

Annual Report
2017

PURPOSE OF ANNUAL REPORT

The purpose of the College Annual Report is to inform parents and the wider College community of the school's successes, activities and achievements throughout the year and to meet Commonwealth and State legislative requirements.

SCHOOL PROFILE

SCHOOL NAME	St Patrick's College
SCHOOL TYPE	Catholic Co-educational College, Years 7 - 12
SUBURB, TOWN	Prospect, Launceston
STATE	Tasmania
ADDRESS	Main Campus (Years 7, 8, 10, 11, 12)
	282 Westbury Road Prospect Tas, 7240
	Croagh Patrick Campus (Year 9)
	252 Peel Street Prospect, Tas 7250
TELEPHONE	Main Campus (Years 7, 8, 10, 11, 12)
	03 6341 9988
	Croagh Patrick Campus (Year 9)
	03 6341 9999
EMAIL	contact@stpatricks.tas.edu.au
WEBSITE	Website Link
SOCIAL MEDIA	 Facebook Link
	 YouTube Link
	 Linkedin Link

LEADERSHIP TEAM	Principal
	Mr Tony Daley
	Deputy Principal (Learning & Teaching)/Head of Senior School (Years 10-12)
	Dr Julienne Colman
	Deputy Principal (Administration)/Head of Croagh Patrick (Year 9)
	Mr Stuart Ralph
	Deputy Principal (Pastoral Care)/Head of Middle School (Years 7 & 8)
	Mr Casimir Douglas
	Director of Catholic Identity and Mission
	Ms Rachael Holloway
	Director of Human Resources
	Mr Geoff Dodds
	Business Manager
	Ms Karen Cole

FOUNDING CHARISMS

St Patrick's College has a tradition of education spanning over 140 years in the Launceston community, educating in the spirit of the three founding Charisms of the College: the Presentation Sisters, the Christian Brothers and the Sisters of St Joseph.

MOTTO & VISION

The motto of St Patrick's College, *Strength through Faith and Knowledge*, permeates all that we do. Our commitment to fostering the faith development of our students, staff and parents is paramount to our role as educators at the College. Guided by the [Archbishop's Charter for Catholic Schools](#) and inspired by the charisms of our founding orders, St Patrick's College is committed to a holistic, inclusive and Christ-centred education that provides opportunity for each student to learn the skills, knowledge and values in order to thrive in a changing world.

GOVERNANCE

Governing Council: The Governing Council of St Patrick's College is chaired by Archbishop Julian Porteous and comprises representatives of our founding orders; the Christian Brothers, the Sisters of Saint Joseph, the Presentation Sisters, the Director of Catholic Education and former parents.

The Governing Council appoints the Principal and is responsible for the supervision of significant policy direction and over viewing the maintenance of the Catholic ethos and traditions of the College.

Board of Management: The Board of Management is appointed by Governing Council and has responsibility for managing the strategic direction of the College, policy development, finance, facilities and managing associated risks and opportunities. The 2017 Board of Management membership is as follows:

Chair: Michael Johnston

Vice Chair: Nigel Chong

Treasurer: Patricia Chilvers

Secretary: Mandy Tennant

Members: Denise Bott, Melissa White, Stephen Burke, Peter Barns, Fr Mark Freeman,
Sr Elizabeth Vagg, Trevor Barrett, Karen Cole (Business Manager), Tony Daley
(Principal)

The activities of the Governing Council, the Board and Principal are governed by the College Constitution.

MISSION & VALUES / COMMUNITY OUTREACH

The mission of St Patrick's College is *to be a school community of faith, learning, respect and service, in the Catholic tradition*. Students, parents and staff discerned the values of *catholic identity, compassion, excellence, individuality, leadership, stewardship, social justice and relationships* as central to our daily living. Students have opportunity to participate in various outreach programmes, involving not only volunteers, but also the entire College community in House based and whole school based activities.

Students at St Patrick's College are privileged to work with a variety of community organisations and we value these opportunities for encouragement, support and formation of our young people. Participation in outreach opportunities allows our students to make invaluable connections within our society and challenges them to consider how they can contribute to their local community and beyond.

SCHOOL STRUCTURE

St Patrick's College is structured into three schools: Middle School (Years 7 & 8), Croagh Patrick (Year 9) and Senior School (Years 10-12). Each school has a dedicated Leadership, Pastoral and Curricular Team under the direction of a Head of School/Deputy Principal. The pastoral care of each student is paramount and the College has a strong House tradition that links students across all year levels via a daily gathering with their Tutor group in order to encourage building positive relationships.

TEACHING & LEARNING

At St Patrick's College we are committed to 21st Century quality teaching and professional practice that challenges each student to realise their full potential and achieve personal success in their learning. The curriculum is broad and includes vocational and academic learning pathways. There is an extensive range of subjects provided at the senior level and we offer cooperative classes with other independent schools through timetable alignment.

eLEARNING

St Patrick's College endeavours to prepare its students for life in an electronic, global community. As well as integrating technology within the curriculum we teach and encourage an ethical, balanced and responsible use of technology.

Personal communication devices owned by individual students are brought to school for educational purposes and students are taught when and where it is appropriate for personal communication devices to be used, as well as to understand the safe use of such devices.

The intent of ICT usage at St Patrick's College includes providing tools and resources for today's learner. Excellence in education requires that technology is seamlessly integrated throughout the educational program. The individual use of ICT is a way to continue to empower students to maximise their full potential and to prepare them for future study. Effective teaching and learning with ICT (iPads/laptops/Apple TVs etc.) integrates technology into the curriculum at anytime and any place.

CO- CURRICULAR

St Patrick's College provides a wide and diverse range of co-curricular activities as an integral part of the educational experience. The co-curricular program caters for students' diverse abilities and offers them the chance to form lifelong interests outside the academic field.

Co-curricular activities at St Patrick's College are displayed in a wide range of contexts and art forms and these play a pivotal role in shaping a sense of social and cultural identity.

PASTORAL CARE

Our value system at St Patrick's College is based on the teachings of Jesus Christ who is the example the school community follows through its commitment to the values of compassion, tolerance, forgiveness and reconciliation. The Pastoral Care system aims to affirm students in their dignity and worth and ensures that the needs of the whole student, including physical, social, intellectual, emotional and spiritual, are met.

We emphasise participation and involvement of all members of the College community and aim to build a community environment where students learn cooperatively and are encouraged to make good choices for themselves and for the good of the whole school community.

STUDENT WELLBEING SUPPORT SERVICES

St Patrick's College provides professional assessment and counselling services to improve the learning, mental health, wellbeing and lives of young people at our College. Students are offered a free and confidential service with a focus on positive outcomes and includes assessment and intervention to address educational, social, emotional and behavioral needs.

Student Wellbeing Support Services staff work closely with staff from key areas within the College such as the Wellbeing Team, Learning Enhancement faculty, Pastoral Care Team and the Curriculum Team. Student Wellbeing Support Services staff respect and support diversity and difference, contributing to inclusive practice at St Patrick's College.

COMMUNICATION

St Patrick's College values and encourages communication with parents and guardians via a range of varying methods including emails, fortnightly newsletter, social media, Parent/Student/Teacher interviews and the College learning management system, Schoolbox.

Schoolbox is used as a parent, student and staff notification system that is integrated with the College school management system. Schoolbox is used to provide a range of communication and information to members of the College community including, but not limited to, year or co-curricular group messages, general news, academic information, community news, the College calendar, policies and procedures, student due work, grades and assessed tasks and teacher feedback, student timetables and an array of general information.

STUDENTS

STUDENT COMPOSITION AS AT 31 DECEMBER, 2017

Year	Male	Female	Total
7	140	140	280
8	144	124	268
9	127	139	266
10	125	141	266
11	105	106	211
12	86	89	175

AVERAGE ATTENDANCE RATE AS AT 31 DECEMBER, 2017

Year	Attendance %
7	93.93
8	94.14
9	93.80
10	91.88
11	92.73
12	92.86

Unexplained non-attendance is managed by an SMS system, where parents are notified, commencing at 9.30am each morning. Cumulative non-attendance (unexplained), is followed up by House Heads, Pastoral Coordinators and Heads of School, as per the College Attendance Policy.

STUDENT OUTCOMES

YEAR 12 DESTINATIONS

Destination	Number
University	71
Polytechnic	12
Employment	60
Gap Year	21
Seeking Employment	3
ADFA/Army/Navy	1
Unknown	6
TOTAL*	174

* Completed Year 12

SENIOR SECONDARY EDUCATIONAL OUTCOMES

Vocational Education: 58% of Year 12 students participated in a VET program.

Tasmanian Certificate of Education: 80% of Year 12 students achieved the TCE.
91% of Year 12 students completed 120 credit points.

Tertiary Education Ranking: 53% of Year 12 students achieved an ATAR.

Year 12 Retention: 87% of Year 9 students retained to Year 12.

LITERACY & NUMERACY

The percentage of students above benchmarks in Literacy/Numeracy (Year 7 and 9) in the report year and previous year are as follows:

84% of Year 9 students were at or above benchmark in Numeracy for 2017 and 86% were at or above benchmark in 2016. 77% of Year 9 students were at or above benchmark in Literacy for 2017 and 82% were at or above benchmark in 2016.

89% of Year 7 students were at or above benchmark in Numeracy for 2017 and 90% were at or above benchmark in 2016. 89% of Year 9 students were at or above benchmark in Literacy for 2017 and 86% were at or above benchmark in 2016.

REPORTING STUDENT PROGRESS

Reporting to students and parents is mandated by the Australian Government and provides essential feedback on student learning progress.

Continuous On-Line Feedback

St. Patrick's College employs continuous feedback throughout the year to provide feedback to students and parents via the learning management system, Schoolbox. Feedback on assignments and Common Assessment Tasks result in continuous improved learning outcomes for students and provide excellent partnerships between teachers, students and parents to enhance learning.

Common Assessment Tasks (CATs)

CATs are decided upon by the members of the year level teams under the leadership of the Heads of Faculty and are held in the same week. Head of Faculty oversee this timeline with their teams.

Timeline: Years 7-12

Term One: By the end of week 8 all teachers are expected to provide online comments on Schoolbox for one Common Assessment Task, either major or minor as pre-determined by individual faculties. There may well be other comments on Schoolbox along the way. This will be determined by the number of times a class has been held throughout the first 8 weeks.

Term Two: Parent / Teacher / Student Interviews are conducted at the beginning of Term two.

Mid Year Academic Report and Transcript are completed by accessing student data. An A – E is given on the Year 7 – 10 reports, together with ratings against the strands and outcomes, as follows:

NA = Not assessed

Dev = Developing

Dev+ = Developing Plus

Con = Consolidating

Con+ = Consolidating Plus

Ext = Extending

Narrative reports are written for those students who are undertaking modified curriculum content, or for individual students who simply cannot achieve a D rating for a variety of valid reasons.

TASC reports for Years 10 – 12 use criteria ratings but will not include an overall rating, as follows:

Exceptional Achievement

High Achievement

Commendable Achievement

Satisfactory Achievement

Preliminary Achievement

No Achievement

End of semester reports contain attitude and application to work indicators and every Tutor is required to submit a Pastoral Report for students.

Term Three: Parent / Teacher / Student Interviews are conducted in Week One and Major / Minor CATs and other formative assessments are commented on.

Term Four: Major / Minor CATs commented upon. End of Year Academic Transcript (Certificate) with A- E ratings (Years 7 – 10).

Narrative reports are written for those students who are undertaking modified curriculum content, or for individual students who simply cannot achieve a D rating for a variety of valid reasons.

All students studying a Year 11/12 course are given an internal ratings document, signed by the teacher and student clearly indicating the internal ratings for their subjects.

A list of subjects studied for TASC candidates will appear on the Academic Transcript from the College as official results from TASC are received in December.

PROGRAMS THAT HAVE ENHANCED STUDENT LEARNING

LITURGY & CELEBRATION

During 2017, St Patrick's College continued Religious Education as a core subject for Years 7-10 students. This subject is based on the *Good News for Living* curriculum documents. Senior students in Years 11 and 12, have a range of TASC subjects to choose from as their religious education: *Community Service Learning*, *Project Implementation* and *Studies in Religion*. They must study at least one each year.

St Patrick's College held a number of masses during 2017. Students are responsible for most of the roles in each of these masses, including processions and readers. A House mass was held for each of the College's 'Houses' (Mackillop, Nagle, Rice and Tenison). Each mass was held as close as possible to the Founder's Day of which the house is named; for example, Mackillop mass was held on 5th May (Edmund Rice Day). All students and staff of each House are to attend the House mass.

Whole College masses were included the 2017 End of Year Mass, held at the Silverdome and presided over by His Grace, Archbishop Julian Porteous. Approximately 3000 students, staff, special guests and family were in attendance. St Patrick's Day Mass was held in this Feast Day in 2017. 2000 students, staff, special guests and parents attended. This mass was presided over by Launceston Parish Priest, Fr. Mark Freeman and co-celebrated by Fr. Richard Ross and Fr. Desmond Holm. At the conclusion of mass, a special presentation and ceremony was held to present the 2017 Student Executive with their badges and formally swear them in.

Staff undertook two half-day Spirituality days during the year. For the first, Staff gathered in the Chapel to listen to three colleagues speak of how they live out the College's Mission and Values. This was followed by some formation based on the founding orders. The second day was held at the end of the year and focussed on personal spirituality. Staff were given a range of workshops to choose, from which they attended one.

St Patrick's College held a special assembly during Term One 2017 to celebrate the high achieving 2016 Graduates.

During 2017 St Patrick's College continued to develop its mission and outreach program for Year 10-12 students, Ascent. Ascent students volunteered at a range of service providers in Tasmania and Victoria, including Edmund Rice Camps, St Paul's Primary School (Bridgewater) and the Brotherhood of St Lawrence.

St Patrick's College also continued its relationship with St Peter's Church, Youngtown, by having students clean the church on a roster basis. During the second term of 2017 the College also developed the same relationship with the Carmelite Monastery in West Launceston.

HIGH POTENTIAL LEARNERS

St Patrick's College is committed to providing challenging learning experiences and developing appropriate learning and teaching programs for our high potential learners. We have a strong commitment to academic excellence, nurturing the growth of students at all levels of their education..

This is achieved through differentiated curriculum, challenging extensions tasks, individualised programs, ability groups and developmentally appropriate placement.

We aim to encourage high potential learners to pursue their passions through diverse learning opportunities that:

- Accelerate the pace of learning by using curriculum and pedagogic designs that are responsive to pace, depth and level of complexity for high potential learners - flexible progression for high potential learners occurs in a range of subjects e.g. students in Year 10 studying Year 11/12 subjects.
- Expand learning to include a focus on areas beyond the scope of traditional disciplines - students are provided with the opportunity to explore projects outside the classroom in collaboration with peers and members of the community - e.g. working on local theatre shows at the city theatre.
- Deepen learning through personalisation and collaboration - students are given opportunities to follow individual paths of learning by exploring their passion in specific areas of interest - e.g. Talented Athlete Program for AFL footballers.

High potential learning opportunities include:

Languages and HASS Faculties

- Japanese speech competition
- Long-term exchange with Omi Brotherhood School
- Homestay program
- Da Vinci Decathlon
- Tournament of the Minds
- Debating
- Rostrum Voice of the Youth
- Spelling Competition & Spelling Bee
- History Competition
- Poetry competition
- Reader's Cup
- S2S Reading Program
- MUNA

- Frank MacDonald Prize
- Simpson Prize
- History Competition
- Student Directed Inquiry
- Poetry in Action

The Arts Faculty

- Launceston Competitions
- Sawtooth Exhibition
- ArtRage
- Art & Photography Club
- Drama Club
- Rock Band Club
- College Productions
- Music Bands & Ensembles
- Music tuition
- Concerts
- TASC 2 subjects offered to Yr10's
- Performance evenings
- Music tours
- Artist in Residence programs
- Workshops
- University Connection Program
- National Summer School Scholarship (NGA)
- Tasmanian Youth Orchestra Scholarship
- Bay of Fires Art Prize
- St Cecilia Performance Challenge
- Art-Tastic
- Deloraine Drama Festival
- MyState Film Festival

Technology Faculty

- Object Design (University Connection Program)
- Textiles co-curricular group
- Housing and Design - UTAS School of Architecture design day excursion
- Year 7 & 8 Applied Technology (strong connection with STEM)
- TASC 2 and VET subjects offered to Yr 10's
- Digital Technologies - Computer Science Unplugged and hands on learning
- UTAS guest speakers
- ANZAC Day - Baking ANZAC biscuits for local RSL clubs with thank you notes
- Exposing students to new technologies
- Apex Fashion Awards

Science Faculty

- Da Vinci Decathlon
- National Science and Engineering Challenge
- National Youth Science Forum
- National Titration Competition
- National Merino Challenge
- Camembert in the Classroom
- Science Week Inter-Homegroup Cup
- STEM (Grade 8 elective subject)
- Grade 8 Solar Car Competition
- Grade 8 CO2 Car race
- Robotics (Grade 9 elective)
- Take Off (Grade 9 STEM elective)
- Science Explorations (Grade 9 Advanced Science Elective)
- Horticulture (Grade 9 Elective)
- Design Engineering (Grade 10 STEM elective)
- Agriculture (Grade 10 Elective)

Mathematics Faculty

- UTAS mathematics modules offered to senior students
- Maths Relays (Maths Association of Tasmania)
- Australian Maths Competition (AAMT)
- Maths Summer School Canberra (Yr 11 students) - AAMT
- Maths Poster competition (Maths Association of Tasmania)
- Year 8 De Vinci class
- Urquhart competition

Health & Physical Education Faculty

- Talented Athlete Program (Yr 9-12) (General, Cricket, Rowing, Basketball, AFL, Football, Cycling - Road and MBT)
 - Yr9 SPC Athlete Readiness
 - Yr10 SPC Athlete Development
 - Yr11 TASC2 Personal Health and Wellbeing
 - Yr12 TASC2 Athlete Development
- Outdoor Experiences
 - SPC Camps Yr 7-10.
 - Scuba diving
 - Rock Climbing / Abseiling
 - Bushwalking
 - Mountain Biking
 - Surfing
 - Sea Kayaking
 - Beach experience
 - Bush experience
 - Solo experience

- Yr 9 Sport and Recreation
- Yr 10 - Yr 11/12 TASC2 Outdoor Education
- Yr 11/12 TASC3 Outdoor Leadership
- Duke of Edinburgh Award
- Windward Bound Experience
- Global Challenge

- Sport
 - Umpiring / refereeing / coaching junior teams
 - Selection into NSATIS / SATIS Swimming, Athletics and Cross Cross
 - Sporting Tours including:
 - Basketball Tour (Edmund Rice Foundation schools tournament - Brisbane)
 - Cricket Seniors Tour (Breach Cup - Victoria)
 - AFL Seniors SATIS tour (Victoria)
 - Rowing (Nationals)
 - Netball Seniors (International Schools Tournament - Melbourne)
 - Snow Sports (Victoria / NSW)
 - Cycling (Nationals)
 - Tennis (National Schools Sport Australia Tournament)

- Sport Science TASC3
 - TASC3 University of Tasmania - Exercise Physiology Lab experience
 - TASC3 University of Tasmania - Biomechanics / Rehab centre experience
 - TASC3 Tasmanian Institute of Sport - Testing Experience

- Sports Management TASC3 (pre - University of Tasmania course)

- Bronze Medallion Course (RLSSA) Award (yr 10-12).

- Awards
 - Green and Gold All rounder Award (y8)
 - Richie Porte Sporting Excellence Award (y9)
 - HPE Senior Sporting Excellence Award (yr12)
 - Pierre de Coubertin Award (yr12) - sporting contribution

Religious Education Faculty

- Peter Vardy Student Ethics Conference (Yr 11 and 12)
- Catholic Justice and Peace Commission Essay Competition (Yr 10)
- Ascent Program Yr 10
- Ascent Program Yr 11
- Ascent Program Yr 12
- Reflection Days (Yr 7 - 10)
- Retreat Programs (Yr 10 -12)
- Catholic Youth Festival

VET Faculty

Hospitality

- Anzac Eve Tribute - Tasmanian Turf Club
- Festival of Bridge (L'ton Casino- 3 days)
- AGFEST work placement (2 days)
- Launceston Cup work placement (1 day)
- Give me 5 For Kids Breakfast and Set up (LGH)
- Senior Ball (yr 10) work placement
- The Glover Art Exhibition
- Strahan work placement (5 days)
- The Deloraine Craft Fair
- Cafe operation at St. Patrick's College
- Bunnings Family activity evenings
- Valete Dinner
- Tourism and Hospitality Conference. 9th May- team challenge

Tourism

- Gardening Australia Festival - Albert Hall
- AGFEST - Chilli Fm Surveys, Marketing and Promotions
- Launceston Cup work placement (1 day) Gate and Ticketing
- Strahan Work placement (5 days) Tourist attractions, sales and marketing
- Tourism and Hospitality Conference. 9th May- team challenge

Defence Cadets

- Anzac Eve Tribute - Tasmanian Turf Club
- ASLAV ADF workshop
- AGFEST ADF workshop
- External cadet membership

Aquaculture

- Strahan work placement
- IMAS and Utas Tour

Construction

- Structured Work Placement at Bunnings South
- Bunnings Cubby House Auctions x2

Learning Enhancement Faculty

- Personalised Learning Plans - High Potential Learner Plans (acceleration, extension, SWSS support and assessment)

SCHOOL IMPROVEMENT GOAL AND ACHIEVEMENTS

With the commencement of a new Principal - Mr Tony Daley, 2017 was a year of gathering feedback from staff, students and wider community members in order to determine future goals.

The College mission states that *we are a school community of faith, learning, respect and service in the Catholic tradition*. To achieve this goal, throughout 2016/17 the College gathered much information from the community in order to develop a 5 year Strategic Plan (2017 - 2022). Students, staff, parents and the College community were widely consulted to assist to form the foundations of the Strategic Plan in conjunction with the Archbishop's Charter for Catholic Schools, which was the cornerstone document used to formulate of the Plan.

The Strategic Plan is separated into three Core Strategic Priorities and four Enabling Strategic Priorities that support the core priorities, as follows:

Core Strategic Priorities

1. Catholic Identity & Mission
2. Learning & Achievement
3. Wellbeing & Leadership

Enabling Strategic Priorities

4. Human Resources
5. Innovation & Technology
6. Finance, Facilities, Infrastructure & Sustainability
7. Strategic Partnerships & Community

In 2018, Operational Plans (commonly referred to as School Improvement Plans) will be developed in order to underpin the strategic priorities. The Board and Leadership Team will meet regularly to discuss the progress of each operation plan, as it is intended that these are "living" documents that are constantly reviewed with view of achieving each stated goal and altered depending on the current College climate.

STAFF

WORKPLACE COMPOSITION

	Full Time		Part Time			
	Male	Female	Male	FTE	Female	FTE
Teaching Staff						
Principal	1					
Teaching Staff (including Librarians)	50	31	13	9.71	34	24.65
Total Teaching Staff	51	31	13	9.71	34	24.65
Non-Teaching Staff						
Specialist Support	1	4				
Administrative & Clerical (including aides & assistants)	4	13	5	2.38	25	13.97
Building Operations Maintenance & Other Staff	9	1	5	2.16	3	2.01
Total Non-teaching staff	14	18	10	4.54	28	15.98

STAFF QUALIFICATIONS

Number of staff with the following as the highest level of qualification currently achieved:

- Doctorate: 3
- Masters: 36
- Graduate / Postgraduate Diploma or Certificate: 27
- Bachelor's Degree: 85
- Diploma / Advanced Diploma: 7

AVERAGE ATTENDANCE RATE OF TEACHERS (based on school year of 40 weeks)

The average attendance rate of teachers for the year ended 30 June 2017 was 96.62%.

EXPENDITURE OF PROFESSIONAL LEARNING (INCLUDING RELIEF FOR PL) PER TEACHER

The average rate of professional learning expenditure per full time equivalent teacher for the year ended 30 June 2017 was \$1,528.21.

CAPITAL WORKS

The 2017 year has not seen significant site or capital works across the College. This has been a planning year for the Administration and Staff Precinct Redevelopment Project, which will commence at the end of 2018. The College did however invest in a solar energy system which is detailed below.

Annual maintenance programs continue to ensure that the existing buildings and infrastructure remain safe, suitable for their required use, and compliant with all relevant laws.

Solar PV System

In 2017 the College installed a 265KW Solar PV system as a result of an Energy Audit conducted in 2016. There is a guaranteed payback period of four years on the system, which will generate more than \$100k of energy cost savings annually. Autonomous Energy were selected from a number of providers to install and maintain the panels on selected roof areas across the College. The installation was very professionally undertaken, with most of our College community being completely unaware that it had occurred.

The results have been impressive since the system was turned on in June, with a significant reduction in monthly power bills. Monitoring systems are providing data to Autonomous Energy as part of a Service Level Agreement, with Engineers regularly reviewing this data to ensure that the panels are operating at the expected level.