

DRAFT **MIDCOAST SPORTS** **LIGHTING PLAN**

2023 - 2035

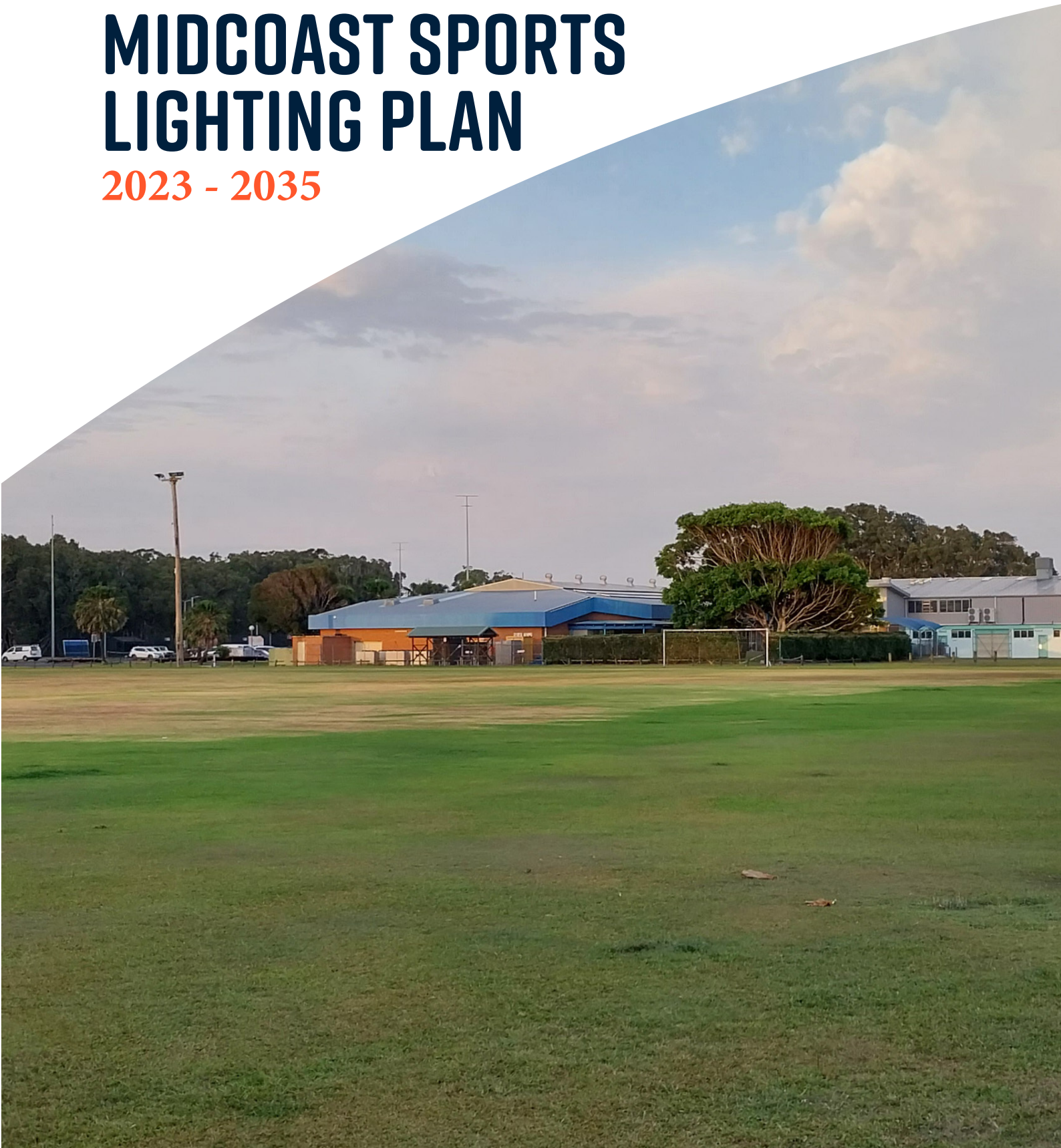


Table of Contents

Table of Contents	2
Introduction	3
About the Sports Lighting Plan	4
Strategic Planning	5
Planning model	5
Open spaces we manage	6
Sports facilities we manage	7
Sports Lighting Planning	8
Hierarchy of Facilities	10
Lighting level guide	13
Sports Court Lighting	13
Distribution	14
Wooden Poles	14
Records	14
Maintenance	15
Inland or Coast	15
Sports lighting capital cost	16
Funding	17
Timeframe	17
Open Space and Recreation Strategy Action Plan	18
Action identification process	18
Summary	20
Appendices	21
Appendix 1 – Sports Lighting Action Plan	22
Appendix 2 – Existing Sports Lighting Infrastructure	34

Introduction

Planning our open space is one of the most important things we do.

During 2022 and the first half of 2023 we developed the *MidCoast Open Space and Recreation Strategy 2023 – 2035*. This is the foundational strategy that guides us on how we manage the extensive public open spaces that we have, and how we assist the community in enjoying those spaces. The Strategy also provides guidance on other uses of our public open space, including recreation activities and play.

Through the development of the *MidCoast Open Space and Recreation Strategy 2023-2035* we engaged with the community to confirm our analysis of our current open space and we identified five key insights. From these, a vision, guiding principles and actions list have been developed. The vision reflects the value that our community places on our open space. The eight guiding principles have been developed to guide us in our management and delivery of open space in the MidCoast region. The actions reflect our understanding of the short, medium and long term needs and aspirations of our community.



The provision of contemporary sports lighting was identified as a key action from the *MidCoast Open Space and Recreation Strategy 2023-2035*. The *Sports Lighting Plan 2023 – 2035* is the strategic planning document for the provision of contemporary sports lighting to MidCoast sports facilities.

About the Sports Lighting Plan

In 2022 and 2023 MidCoast Council developed the MidCoast Open Space and Recreation Strategy 2023-2035 (OSRS). The Strategy is a twelve-year plan to manage both the public open space in MidCoast along with the activities that take place on that space.

The Strategy includes a comprehensive Action Plan, that detailed many actions that need to be undertaken throughout the public open space portfolio to bring it up to contemporary standards. During the development of the Strategy and its Action Plan it was identified that much of the built facilities located on our public open space, in particular our sports facilities, were at an unacceptable standard, or could be expected to reach the end of their life during the lifecycle of the Strategy.

One of the planning recommendations contained in the Strategy's Action Plan was the development of a Sports Lighting Plan. The purpose of the Plan is the identification of all existing sports lighting infrastructure, in particular the lighting poles and luminaries, and the identification of new sports lighting infrastructure that would be needed in the future. The Plan deals with sports facilities only and does not detail lighting provided in passive public open space.

The purpose of the Sports Lighting Plan 2023 – 2035 is to:

Deliver a comprehensive and prioritised plan for the provision of contemporary sports lighting to sports facilities in the MidCoast region.

The Sports Lighting Plan 2023 – 2035 aims to:

Provide a plan that will guide Council in planning for and providing infrastructure that meets the community's needs for night-time sports.

The Plan contains the current asset list as well as a future works schedule for our sports lighting infrastructure.

The Plan has used a number of resource documents to develop the individual projects as detailed in the Action Plan. The main source document is the *Community Sporting Facility Lighting Guide*¹.

¹ https://sport.vic.gov.au/_data/assets/pdf_file/0020/56180/football-netball-soccer-lighting-guide-2012.pdf

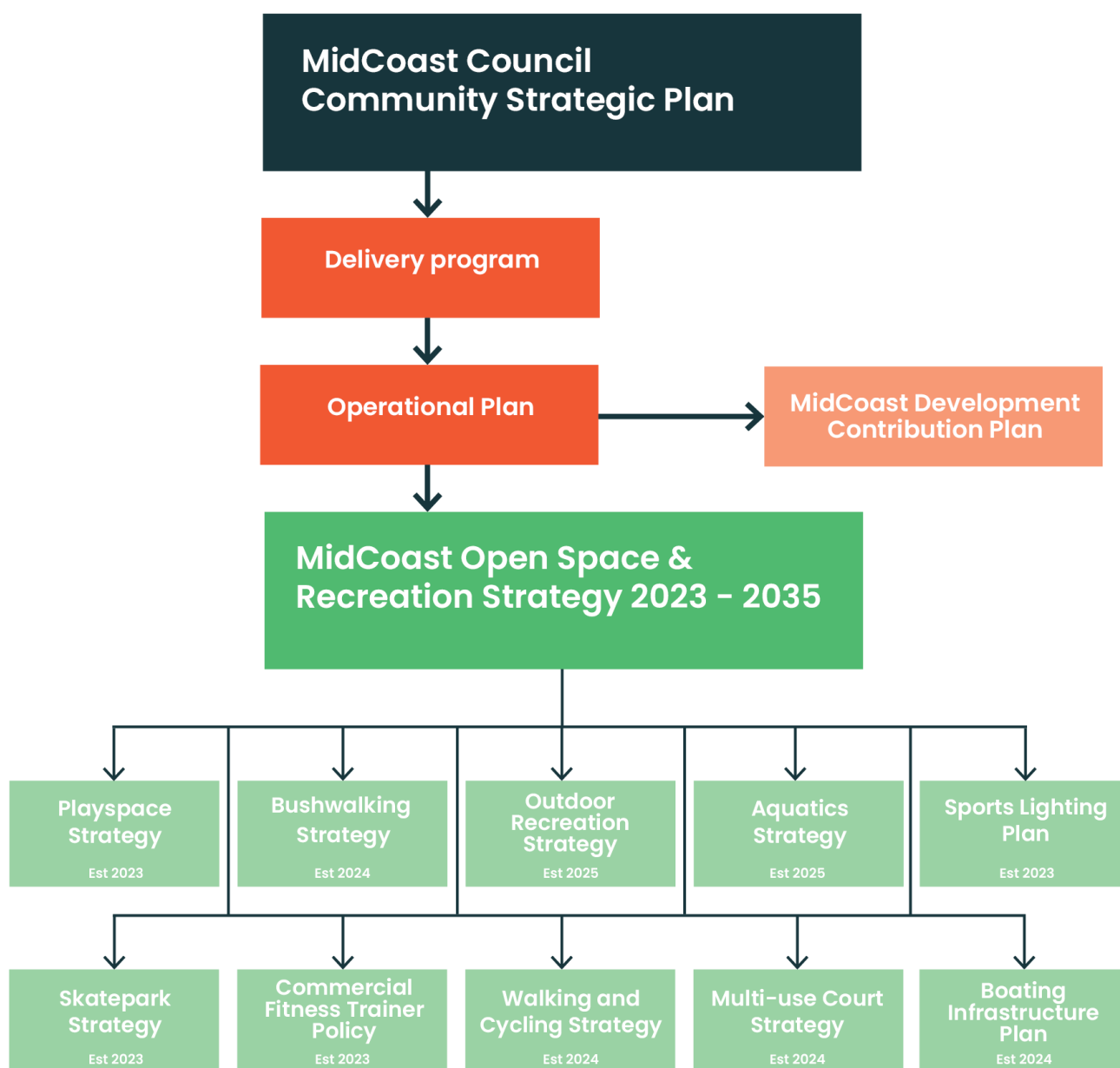
Strategic Planning

The provision of recreation services to our community involves a number of planning considerations and components. The *MidCoast Open Space and Recreation Strategy 2023-2035* provides guidance to the production of this sports lighting plan.

Planning model

The *MidCoast Open Space and Recreation Strategy 2023-2035* presented a public open space planning model. This model sets out the strategies and plans needed to meet the aims of the Strategy and the current and future needs of the community through sport and recreation services.

The *MidCoast Sports Lighting Plan 2023 – 2035* is detailed in the model.



Open spaces we manage

There are 826 Council-managed open spaces in the MidCoast region. For a full list of facilities and their type refer to Appendix 3 of the *Draft Open Space and Recreation Strategy 2023-2035*.

Our public open space is made up of the following:

Category	Total Spaces	Total Area
Park	179	338ha
General Community Use	236	505ha
Natural Area Foreshore	96	420ha
Natural Area Wetland	21	733ha
Natural Area Bushland	152	1,474ha
Natural Area Watercourse	64	93ha
Natural Area Escarpment	1	25ha
Other (Road Reserves)	30	17ha
Area of Cultural Significance	2	2ha
Sports Ground	45	544ha
Total	826	4,134ha

Of the park categories and areas detailed above the following crown land reserves are included:

Category	Total Spaces	Total Area
Crown Land Reserves	247	1,895ha

Sports facilities we manage

Of these reserves a number are set aside for sport and recreation. Sport and recreational facilities and spaces are provided by a range of entities including Council, the Department of Education (via schools), National Parks and Wildlife Service (NPWS), Forest NSW and private recreation groups and clubs who also provide and manage recreational facilities.

The table below sets out a breakdown of the different types of sport facility managed by Council and their categorisation. Sport facilities not managed by Council are not included in the table.

Sport Facilities

Category	Local	District	Regional	Total Fields
Sports Grounds				45
Multi-purpose field	8	4	2	14
Rectangular field	14	14	26	54
Hockey fields			3	3
Junior sized fields			10	10
Total Full-sized Fields				71
Outdoor netball courts	1	25		26
Tennis courts	23	44	27	94
Croquet	3	2	4	9
Basketball	1			1
Multi-purpose courts	4			4
Skateparks	15			15
Criterium track			1	1
BMX track			1	1

Of our parks and reserves 338 have facilities in them, which include amenity buildings, lighting, courts, changerooms and pavilions that vary in age and condition. Most are in an average condition, and some are no longer fit for purpose. The renewal of these assets will be a challenge for our Long Term Financial Plan (LTFP) and a strategic approach is required to deliver and manage community expectations.

This plan deals specifically with sports infrastructure which is provided for at the 45 sports grounds. It also deals with sport infrastructure lighting for specialist sport facilities such as multi-purpose courts, tennis courts, and skateparks. These facilities are located at a number of different park categories.

Sports Lighting Planning

One of the major innovations for sport infrastructure and sport service provision over the last 20 years has been the introduction and development of sports lighting. Sports lighting is the installation of high lux (light) to sports facilities, mainly sports fields but also many other sport facilities, such as tennis courts, netball courts, multi-purpose courts and even shooting ranges.

When sports lighting was first introduced the costs and quality of light meant that many councils installed singular light poles, often wooden street light poles at one location on the boundary of a sports field. At that point it was felt that this would be sufficient for basic training, on one part of the field. Some of these arrangements still exist in MidCoast. There are many issues with this approach, including wearing out of the natural surface where the light is, lack of high-quality training, restrictions on who and how many people can use the facility and the condition of these old poles.

Sports lighting has become one of the most effective strategies for the impact of climate change. With extreme heat events, being able to move both training and competition to the evening has meant that sports clubs have been able to provide a safer environment for their activities. It is anticipated that more sport programs will be moved into night-time hours in the future.

Case Study: Black Head Sports Complex

The rectangular football field at the Black Head Sports complex has two 18m light poles. The luminaires on the poles are old metal halide. By the age of the luminaires, it is expected that these lights will be providing less than 20lux to a small part of the western side of the field.

The installation of 4 X 25m metal poles, preferably base hinge, with LED luminaires to the field would allow the resident club to not only move their training to the evening, increase junior time on the field, introduce a women's team but ultimately to ensure the longevity of the club.

As the above case study shows effective contemporary sports lighting not only provides a higher quality experience for sport participants, but it also allows us more flexibility in offering sports facilities to a greater mix of activities.

One of the greatest challenges for us will be replacing the hundreds of wooden sports lighting poles and luminaires that are dotted around our sports fields. Replacing one or two would be fairly easy, but our sport portfolio is dominated by these old wooden poles, and the sub-standard metal halide luminaries that sit on them. And it is not just our sports fields, with many of our tennis courts having the same wooden poles. To light a sports field or court with a contemporary lighting system, including poles and LED luminaries, will cost from \$100,000 for a court system to \$180,000 - \$250,000 for a sports field. Multiplied over the entire portfolio adds up to tens of millions of dollars.

It was a recommendation of the OSRS that a MidCoast *Sports Lighting Plan 2023 – 2035* be developed. This Plan is to include a full audit of all existing sports lighting at all the sports facilities in MidCoast. It would also include activity recommendations for all fields ie what activity should be done there, either training only, low-level competition or high-level competition. Finally, it would also include a full works schedule for projects to upgrade the lighting systems to meet the recommended activity.

The Action Plan of the OSRS also details individual sports lighting upgrades, independent of the Sports Lighting Plan. This is to ensure that upgrades to systems are not reliant on the completion of the plan, but also sets out a list of potential projects that the Sports Lighting Plan can refer to. These individual actions use base-hinge poles and LED luminaries as the default provision for our sports fields. Base-hinge poles are now freely available, with a number being installed at our facilities. It is estimated that a base-hinge system provides savings over the lifetime of the poles of \$50,000, through reduced maintenance. LED luminaries have steadily decreased in cost since arriving on the market. At this point a LED system is comparable to a legacy metal halide system in capital costs (installation). Regarding ongoing expense (OPEX) the LED is far superior to the metal halide system. Whoever holds the electricity account, be it the sports club or Council, they will see a 66% reduction in kilowatt hours used and a subsequent reduction in power costs with LED.



Hierarchy of Facilities

Our Council, and the previous councils that made up the region, have worked for many decades to provide infrastructure and services to our respective communities. Local sports fields and other specialist sport facilities have been provided over many years. However, as noted in the *Draft Open Space and Recreation Needs Analysis* the portfolio of sport facilities is aging, and the need to upgrade and rationalise the portfolio is pressing and is one of the major motivations in producing the *MidCoast Open Space and Recreation Strategy 2023-2035*.

To provide the right facilities, in the right locations, for the right people, at the right time we use a Hierarchy of Facilities. There are two hierarchies, one for sport, and one for play facilities. These hierarchies provide a guide for what should be provided, depending on where the facility fits within the hierarchy. The hierarchy we use has been developed by Dr Ken Marriot, in *Planning for the provision of leisure and recreation in Australia (2010)*.²

The hierarchical position of a recreation venue is often overlooked as a planning consideration and planning tool. However, allocating each asset to a position in a hierarchy is an important planning strategy because, as with the classification of assets, it helps with the assessment of what already exists and particularly, of its capacity to meet various types of need in the community. For instance, if the majority of sporting venues were classified as Local, this could well mean that clubs would have difficulty competing at higher standards and/or that they may have to travel away to gain higher standards of competition. Similarly, a Local sports facility, where only one sports field is provided, will not cater to a club that has a growing membership base.

Sport Hierarchy

The hierarchy of sports facilities is:

- Local
- District
- Regional
- State*
- National**

These different components within the sport hierarchy have definitions and provisions applied to them. See the table below.

* State level facilities are not the responsibility of local government. However, there are rare occasions when local government will provide a state level facility. Cases such as shooting ranges, or niche sport and recreations.

** National or International facilities are not the responsibility of local government. There should be no reason that local government is providing these facilities. They are part of the hierarchy but not provided by local government.

² https://www.stategrowth.tas.gov.au/_data/assets/pdf_file/0005/358979/Recreation_Planning_Manual.pdf

Classification	Planning considerations	Definition
Local (Facility that caters for local competition)	<ul style="list-style-type: none"> • Lower level local or junior levels of competition sport • Smaller ovals • Reasonable playing surface with limited or no irrigation • Partial or unfenced ovals • Basic training lights <80 Lux • Limited or no car parking • None or small amenities 	<p>Local recreation venues predominantly serve small rural localities, small townships, and neighbourhoods or suburbs within the urban areas of one council. They are classified as local because:</p> <ul style="list-style-type: none"> • They are generally small in size and thus have little or no capacity to serve a whole council or region • They provide opportunities which are similar to those available at a number of other locations and thus do not attract people from far away and do not need to serve people from far away • Their natural or built features are unremarkable and as a result, they do not draw users from a wide area • They have been designed and sited in a way which ensures good access from nearby areas and possibly even, discourages access and use from more distant areas. <p>Playgrounds, ball sport kick-about areas, small reserves, neighbourhood pathways and local halls are common local recreation venues.</p>
District (Facility that caters for district competition)	<ul style="list-style-type: none"> • Higher levels of competition sport • Larger fields • Multiple fields • Turf wickets • Sports Precinct • Sole use • Good quality grass surface with irrigation, limited or no drainage • Fenced ovals • Minimum 100 lux competition lighting • LED lighting • Amenities to suit • Car Parking • Cost of maintenance borne by council 	<p>District recreation venues serve the total community living in a council area. They are classified as municipal because:</p> <ul style="list-style-type: none"> • They are used by individuals, groups or teams which are drawn from across the whole local government area • They are provided by a council, or other bodies for the residents of one council. Other councils provide their own venues for their residents • They are often the only resource of their type in the local government area • Their natural or built features are sufficiently significant to draw users from across a whole council • The size of the land requirements, the higher cost of provision and, for some types of use, the size of catchment needed to ensure viability, mean that no more than one or two venues can be provided by a council

Classification	Planning considerations	Definition
		<ul style="list-style-type: none"> They have been sited so as to be accessible to the whole council community. <p>District level recreation venues may include sports grounds, city/town centre reserves, botanic gardens, walking/cycling trails, indoor aquatic leisure centres, and undeveloped reserves retained to meet future municipal needs.</p>
Regional (Facility that caters for regional competition)	<ul style="list-style-type: none"> Grounds capable/ suitable of housing highest levels of competition sport High standard playing surface including both irrigation and drainage Synthetic surface Larger ovals Multiple fields Sports Precinct Sole use Larger Amenities Intensively maintained with quality grass surface Turf wickets Perimeter fencing Minimum 150 lux competition lighting LED lighting Car Parking Fenced fields Cost of maintenance borne by council 	<p>Regional recreation venues serve the needs of the residents of a number of councils. They are classified as regional for one or more of the following reasons:</p> <ul style="list-style-type: none"> They are larger than other facilities of the same type and can accommodate a far larger number of visitors They need a substantial market or service area to remain viable and they need to draw that market from the council in which they are located and its surrounding region The council in which they are based generally has greater drawing power than other councils in the area Their natural or built features are so outstanding; they draw users from a wide area They support either a wide mix of uses or high specialisation of use They are generally of higher quality than venues which are lower in the hierarchy They are generally costly to provide and/or maintain They are often unique to a region They have environmental, heritage, amenity or other special significance There is a low frequency of provision or natural occurrence. <p>Regional recreation venues frequently include golf courses, major sports grounds, major indoor aquatic leisure venues, long distance trails, and various types of heritage and nature reserves eg forests, lakes, rivers, wetlands and waterfalls.</p>

Lighting level guide

Sports lighting is provided at the three hierarchies as indicated in the table above. However, in addition to actual provision the level of lighting provided is also determined by the hierarchy. For example, for a Local level facility the need for sports lighting is limited to training only. Therefore, the table below highlights the different light (lux) levels that should be provided at each level of facility.

It is assumed that the recommended lighting levels below are provided by LED luminaries.

Activity	Local	District	Regional
General community use	50lux	50lux	50lux
Training	50lux	50lux	50lux
Basic competition	100lux*	100lux	100lux
High level regional competition	Not recommended	200lux	200lux

*Sports lighting to competition standard is not recommended for Local sports facilities. High quality sports lighting attracts participants to Local clubs, increasing their club membership, and resulting in the club petitioning us for higher quality amenity and more fields, all resulting in the Local sport facility being over-embellished for its purpose, and creating maintenance and replacement issues. However, if a Local level facility is located in a location where it is the only sport facility then it is permissible to increase the lighting level to meet that specific location's needs.

The lighting upgrades indicated on the individual actions will all be designed to allow for lighting levels to be adjusted up or down, dependant on the required use at the time. The systems will also be designed to allow for future upgrades of the lux levels.

Sports Court Lighting

The lighting of outdoor sports courts is also covered by this Plan. Even though the fundamental planning considerations are the same for courts as they are for sports fields the technical considerations are different. Sports courts require shorter poles, as the light is not being distributed across as wide an area. However, the lux or lighting level for a sports court is much higher than for a sports field, due to the colour of the ball, the height that the ball travels and the distribution and uniformity of the required light. On a sports field basic competition can be conducted on 100lux, as seen in the Lighting Guide table above. However, on a sports court, such as tennis or netball, the lux level needs to be 200lux for tennis and netball and 350lux for Regional Hockey.

Court Activity	Local	District	Regional
Tennis	200lux	200lux	300lux
Netball	200lux	200lux	300lux
Multi-purpose	200lux	200lux	200lux
Hockey	250lux	250lux	350lux

Distribution

Sports lighting, just like sports facilities, are provided where they are most needed. It is not the aim of Council to light every sports facility that we manage. One of the planning considerations that direct the provision of sports lighting is Distribution. Distribution refers to how many facilities exist within a specific catchment with similar characteristics. For example, providing lighting at all Local level facilities within one location will lead to difficulties for clubs in providing sports services.

Therefore, not all sports facilities in a specific location should be lit. When identifying the need for sports lighting in the actions in the Action Plan the distribution of lit sports facilities in each location has been considered. Distribution planning fits within a larger planning suite of considerations, including population density, local and regional trends and participation data.

Wooden Poles

The Action Plan has identified 136 wooden sports lighting poles to be replaced on a priority basis when funding permits, or at end of life, over the 12-year lifecycle of both this Sports Lighting Plan and the overarching Open Space and Recreation Strategy 2023 – 2035.

Wooden street power poles being used for sports lighting has either been completely phased out or is in the process of being phased out by all local government authorities around Australia. The main reason for this is that it is not possible to certify for sail on wooden poles. Sports lighting consultants and engineers will not certify wooden poles for sports lighting, as they cannot guarantee the structural soundness of the individual pole. Strength testing can be conducted, but this is expensive and does not guarantee certification. MCC will continue to regularly inspect wooden poles until they are no longer in service.

The concept of “sail” in sports lighting relates to the luminaires, and their “catching” of wind. When you place any object, such as a luminaire on a pole its surface area is pushed by the wind. The larger the surface area, and the stronger the wind, the more force it places on the poles. Metal poles are certified for a specific surface area in the luminaires, and so the forces are calculated, with the pole being constructed to meet those forces. However, with wooden poles there is no way to certify its capacity to withstand forces from sail. You may have a structurally sound wooden pole, however, if the wind blows hard enough, and creates enough force on the luminaires then the pole will break.

Therefore, all the wooden poles have been identified for replacement.

Records

Sports lighting infrastructure is a long-term asset for Council. The average life of a sports lighting system should be approximately 25 years, which includes the life of the pole and the underground infrastructure. The luminaires have a life of approximately 10-12 years. Over the life of the system it could be expected to have to replace the luminaires three times.

One of the greatest challenges with sports lighting systems is the keeping of records. Many councils have had to replace whole systems, well short of their life cycle, because records were not properly stored. In particular the underground footings are critical for records storage. In a sport lighting design, the underground footings directly relate to the size and weight of the pole and are designed specifically for the sail of the luminaires. If the records of what footings were “poured” are not kept then there is no way of knowing what capacity the poles have, and so must be replaced.

Therefore, a proper and documented process for the recording of all paperwork that is provided by contractors on to Council’s ECM system is critical.

Maintenance

Due to the complex nature of sports lighting, and the significant cost of installing and upgrading individual systems we have a set of installation and maintenance requirements that we adhere to and require sports club compliance with.

Because contemporary sports lighting is technical, and a large investment, both in capital as well as ongoing maintenance, Council's aim is to gain economies of scale from purchasing lighting equipment. This means that we will endeavour to maintain the same model and type of luminaires, which makes maintenance and its cost more efficient. Therefore, when sports clubs are seeking landowners' permission prior to applying for grants we will stipulate the system requirements for each project.

Illuminator

For all new or upgraded lighting projects the installation should include a Council approved illuminator sports field lighting management system. This allows monitoring of usage and to assist Council when charging clubs for use. It also assists clubs through the use of a pin code to turn them off and on. This ensures the floodlights are only used when required.

Funding for capital projects

Council does not have a capital acquisition budget and is very reliant on grants for the installation of sports lighting. Grants can be applied for by both Council and community groups. When designing a sport field lighting project, the product has to meet L90 standard over a period of 50,000hrs. That means at the end of 50,000 hrs illumination must be at least 90% from day of install.

Maintenance

Once an asset has been built on community land and becomes operational Council is responsible for the maintenance of the assets throughout the entire lifecycle.

Fees & Charges

Sporting groups are charged for floodlighting based on actual usage. The charge out rate includes a maintenance fee.

Inland or Coast

The life of the sports lighting system should be approximately 25 years, however, where the system is located determines the eventual life. A system installed at the Taree Recreation Grounds will have a lot longer life than a system installed at the Forster Recreation Grounds. This should be considered in the planning of replacements or upgrades to systems around the LGA.

Sports lighting capital cost

There is significant need, across the numerous sports facilities, for the upgrade or provision of sports lighting. As a whole this requirement is extensive and will involve the replacement and installation of hundreds of light poles and the supporting lighting infrastructure to provide for the future community need.

Sports lighting systems are expensive, but prices, especially for LED have been steadily coming down. The general rule of thumb for sports field lighting costs is \$45,000 per pole, which includes the pole, luminaries and all under-ground works. That means a rectangular field with four poles would be approximately \$180,000, depending on the lux level.

We should not be expected to cover the cost of all these systems. Rather, both state and federal governments have funding programs, where sports lighting systems are eligible projects. We will apply for, and work with local sports clubs to apply for grants to upgrade sports lighting at individual sports grounds. With the Sports Lighting Plan, we will be able to, over the period of the open space and recreation strategy, to increase the quality of sports lighting, and ultimately the quality of the participant experience.

Presented below is an estimate of the costs of the Action Plan.

Project type	Pole type	Number of poles	Average cost (per pole)	Cost per facility (average)	Total number of poles	Cost per pole type
Sports field	25m	4	\$45,000	\$180,000	165	\$7,425,000
Tennis court	12m	6	\$25,000	\$145,000	134	\$3,350,000
Multi-purpose	12m	4	\$25,000	\$100,000	6	\$150,000
Netball Courts	18m	4	\$35,000	\$140,000	20	\$700,000
Total					333	\$8,685,000
Luminaries only without poles			\$3,000		146	\$438,000
Total Estimated Cost						\$9,123,000
Wooden Poles					136	

Funding

Sports lighting projects are normally funded through a number of different mechanisms. Firstly, there is funding covered in our Long-Term Financial Plan (LTFP). Second, there are grant funding programs where sports lighting are eligible projects. And finally, sports clubs often put in their own funding towards projects. It is our aim to combine all these funding sources to deliver on projects in this plan.

For all the projects listed in the Action Plan it should be assumed that both LTFP and grants funding are being used to fund each individual project if/when it proceeds.

In addition, if a local sports club had their own funds to contribute and wished for their sports lighting levels to be higher than those identified by Council, then we would be open to discussing allowing the club's monies to go towards funding a higher level of lighting.

Timeframe

The timeframe for the delivery of the lighting projects listed in the Action Plan aligns with the lifecycle of the OSRS, being 2023 – 2035. Each of the individual projects has been given a priority by identifying which of the three time periods it is expected to be delivered. High priority projects will be delivered in the 0 – 3 year timeframe, Medium priority projects in the 4 – 8 year period and Low priority projects will be delivered in the 9 – 12 year period.

Some of the projects identified are for infrastructure that is still serviceable. However, over the period of 12 years wooden poles and metal halide luminaries will need to be replaced. Where metal poles are provided, and luminaries are still relatively new the priority of replacing the luminaries will be Low, but they have been included in the plan as they will need replacing during the period.

Identification of which priority an individual project aligns with has been gauged by a number of planning factors, including distribution ie are there similar lit facilities in the location, size of the resident club indicating demand, impact on the neighbouring properties, if any, and the availability of supporting grant funding.

Time: The actions are prioritised and will be achieved in the following timeframes:

Priority	Rating	Time Period
High	S	Short term (S): 0–3 year
Medium	M	Medium (M): 4-8 years
Low	L	Long term (L): 9-12 years

It is not anticipated that all projects in the Action Plan are delivered in the lifecycle of this Plan, but rather the Plan is a guide, and may well continue to be implemented past the 12 years life of both this Plan and the Open Space and Recreation Strategy.

Open Space and Recreation Strategy Action Plan

In addition to the development of the Sports Lighting Plan the *MidCoast Open Space and Recreation Strategy 2023-2035* Action Plan also includes several (18) sports lighting projects. These projects were identified through community engagement or were identified as obvious projects that needed to be undertaken. These projects are included in the Sports Lighting Action Plan.

Action identification process

A comprehensive process has been conducted to identify each of the actions detailed in the Action Plan, as well as the technical aspects of each project, including number of poles, types of luminaries, and lighting levels. This process is detailed in the following table.

Subject	Answer
Why are we lighting?	Training
	Competition
	Climate change
	Time poor participants
	Because we can
	Because sports clubs ask for lighting
Is the facility already lit?	What with
	What type of poles
	What type of luminaries
	What age are the luminaries
	What is the estimate of the lux levels, (6% loss per year for metal halide)
	Are there wooden poles
	Are the poles the correct height for the anticipated use
Does it need to be lit?	Identify the catchment
	What is the facility category
	Current and anticipated type of use i.e., sport, recreation, dog walking
	What is the distribution in the area
	Are there similar facilities
	What sport is currently being played. (This impacts light levels).
	What activities do we anticipate being undertaken in future.
What are the lighting specs?	Training or competition
	What lighting level should it be (see hierarchy classification)
	Are there already some poles and we are just adding, if so, will the

	existing poles and luminaries be part of the package?
Is it a multi-field facility?	Do all fields need to be lit
	Is there a “show” field that will require higher level lighting
	Are different lux levels required for different fields
	Do fields require zones and the ability to adjust lighting levels
Is there Community feedback?	Has a sports club requested lighting, or higher quality lighting
	Do the sports clubs pay the electricity account
	Is there demand for more sustainable lighting options

How did we prioritise the actions?

Having identified individual projects, we then used four connected decision drivers to identify both the actions and their priority. These are listed in the table below:

Decision Driver	Rationale
Evidence approach	Each action has been tested through community feedback, analysis of community need, analysis of current activity trends and its impacts on the environment. The priority placed on each action is a result of analysis of the impact on either the community or the environment if that project is not undertaken.
Equitable provision	Actions were also developed through an equitable lens, in that each location within the LGA was considered for what they have received in the past, how long since that location received a new facility and the feasibility of delivering their individual projects at a certain point in time (e.g., availability of funding).
Asset portfolio condition	As has been noted in OSRS the state of our recreation portfolio is aged, and some of the individual components are no longer fit for purpose. In developing the actions and their priorities the condition of existing infrastructure, and its projected life was a strong determinant in setting its priority.
Financial Sustainability	The prioritisation of the actions in the Action plan, and the ability for projects to progress to delivery in the future, has also been influenced by considering the associated financial operating model and/or the long-term asset management requirements in minimising future financial burdens to Council. This financial planning of actions also includes the consideration of access to future potential funding programs, the funds of which the vast majority of the actions will require.

If circumstances change, such as new funding programs, changes within individual communities, or changes in community participation we will revisit the priorities. This might mean a community comes to us and asks for a project to be brought forward, which, when considered, can be done, we will.

Not all actions listed will be completed in the life cycle of the Strategy. The review process identified will re-consider each action to ascertain its continuing applicability.

Summary

The importance of this Sports Lighting Plan cannot be overstated. The *MidCoast Open Space and Recreation Strategy 2023-2035* notes that sports lighting is now considered to be one of the main mitigation strategies for the adaptive management approach to climate change. Many sports programs are moving into the evening to reduce the hazards apparent in extreme heat events. Holding sports training and events in the evening cannot take place without sports lighting.

It is also noted in the *MidCoast Open Space and Recreation Strategy 2023-2035* that over the last ten years we have seen a significant reduction in participation levels for structured sport. One of the reasons for this is the time-poor lifestyles that many Australians now face. To be able to hold sports events in the evening will help to maintain the current participation numbers and give us the best opportunity to increase those numbers.

This Sports Lighting Plan sets out the rationale for improving our sports lighting. It also provides a full work and action schedule that will enable us to gradually upgrade and replace our sports lighting. As stated, this will not be cheap, and as a general indicator, at \$45,000 per pole, this plan has identified 351 individual poles, of different types, to be provided or replaced, meaning the Action Plan contains approximately \$13.1M in future works.

However, when considered across the lifecycle of the *MidCoast Open Space and Recreation Strategy 2023-2035* of 12 years this amount would be considered to be acceptable, and a sound investment. To understand the value of sport and recreation infrastructure consider the Benefit Cost Ratio discussion in the last chapter of the Open Space and Recreation Strategy.



APPENDICES

Appendix 1 – Sports Lighting Action Plan

Serial	Location	Facility	Hierarchy	Activity	Action	Short 0-3 years	Medium 4-8 years	Long 9-12 years	OSRS Action
1.	Black Head	Black Head Sports Complex	Local	Football	1. Installation of 2 x new poles to the existing 2 poles 2. Install new LED luminaries Lux Level = 100lux				✓
2.	Boomerang Beach	Pacific Palms Sports Complex	Local	Football	Football 1. Install 4 x new poles 2. Install new LED luminaries Lux Level = 100lux Multi-purpose court 3. Provide lighting to the multi-purpose court Lux Level = 80lux				✓
3.	Bulahdelah	Showground	Local	Tennis	1. Replace 8 x wooden light poles 2. Install new LED luminaries Lux Level = 100lux				✓
4.	Bulahdelah	Bulahdelah Showground, Pool and Jack Ireland Sports Complex	Local	Football, Cricket Horse sports	Football (Field #2 Eastern) 1. Remove wooden light poles and install 4 x new 2. Install new LED luminaries Lux Level = 100lux				
5.	Chatham	Chatham Park	Local	Football, Touch Cricket	Remove at end of life.				

Serial	Location	Facility	Hierarchy	Activity	Action	Short 0-3 years	Medium 4-8 years	Long 9-12 years	OSRS Action
6.	Coolongolook	Coolongolook Oval Reserve	Local	Tennis	1. Remove existing metal light poles and replace with 4 x new metal poles 2. Install new LED luminaries Lux Level = 100lux				
7.	Coomba Park	Coomba Hall & Tennis site	Local	Tennis	1. Install 4 x sports lighting poles 2. Install LED luminaries Lux Level = 100lux				
8.	Crowdy Head	Muir Park	Local	Multi-purpose	Multi-purpose 1. Replace 4 x existing metal light poles 2. Install new LED luminaries 3. Upgrade court surface Lux Level = 200lux				
9.	Cundletown	Cundletown Park	Local	Football Touch Tennis Cricket	Tennis 1. Replace 4 x existing metal light poles 2. Install new LED luminaries Lux Level = 200lux				
10.	Diamond Beach	Diamond Beach Sports Ground	Local	Football	No action required.				✓
11.	Diamond Beach	Diamond Park	Local	Netball Pickleball	Multi-purpose court 1. Install 4 x sports lighting poles 2. Install LED luminaries Lux Level = 100lux				

Serial	Location	Facility	Hierarchy	Activity	Action	Short 0-3 years	Medium 4-8 years	Long 9-12 years	OSRS Action
12.	Elizabeth Beach	Pacific Palms Community Centre	Local	Tennis	1. Install LED luminaries Lux Level = 200lux				
13.	Forster	Boronia Park	District	Football Netball	Football (Fields #1, #2 & #3) 1. Replace 16 x wooden light poles at end of life on field 1 & 2 2. Replace LED on field 2 Lux Level = 100lux Netball (Old Courts) 3. Remove all wooden poles and replace with 8 x metal poles around outside of courts 4. Install new LED luminaries Lux Level = 100lux				
14.	Forster	Forster Sports Complex	District	Football Cricket Tennis	Football (2 fields) 1. Remove 3 x wooden poles and install 8 x new 2. Install new LED luminaries Lux Level = 100lux				
15.	Gloucester	Gloucester District Park Oval #3 - Bert Gallagher Memorial Oval	Local	Rugby League	1. Replace 4 X wooden light poles 2. Install new LED luminaries Lux Level = 100lux				✓

Serial	Location	Facility	Hierarchy	Activity	Action	Short 0-3 years	Medium 4-8 years	Long 9-12 years	OSRS Action
16.	Gloucester	Gloucester District Park Netball facility	Local	Netball	1. Replace 4 X wooden light poles 2. Install new LED luminaries Lux Level = 100lux				✓
17.	Gloucester	Gloucester District Park Football Fields	Local	Football	Eastern Field (Rec #2) 1. Install 4 x new poles 2. Install LED luminaries Lux Level = 100lux				✓
18.	Gloucester	Gloucester District Park Tennis facility	District	Tennis	1. Replace 9 X wooden light poles 2. Install LED luminaries Lux Level = 200lux				✓
19.	Gloucester	Gloucester Wide	Regional	Hockey	1. Investigate the construction of a multipurpose synthetic hockey field, including a full-sized field, sports lighting and support facilities				✓
20.	Green Point	Bottlebrush Close Reserve	Local	Tennis	1. Install 12 x new light poles 2. Install new LED luminaries Lux Level = 200lux				
21.	Harrington	Esmond Hogan Park	Local	Cricket Athletics Croquet Tennis	Football/cricket 1. Install 6 x new light poles 2. Install new LED luminaries Lux Level = 100lux Tennis 3. Remove wooden light poles and install 12 x new 4. Install new LED luminaries Lux Level = 200lux				

Serial	Location	Facility	Hierarchy	Activity	Action	Short 0-3 years	Medium 4-8 years	Long 9-12 years	OSRS Action
22.	Hawks Nest	Myall Park Sports Reserve	Local	Rugby League Tennis Athletics Croquet	Rugby League 1. Remove wooden poles and install 4 x new Lux Level = 100lux Tennis 2. Replace existing luminaries with LED Lux level = 200lux				
23.	Krambach	Tennis Facility	Local	Tennis	1. Replace wooden poles 2. Install new LED luminaries to new poles 3. Install new LED luminaries to existing 4 X metal poles Lux Level = 200lux				✓
24.	Killabakh	Killabakh Community Reserve	Local	Tennis	Remove at end of life.				
25.	Kimbriki	Kimbriki Tennis Reserve	Local	Tennis	Remove at end of life.				
26.	Lansdowne	Lansdowne Recreation Reserve	Local	Football Tennis	Tennis 1. Remove 2 x wooden poles and install 4 x new 2. Install new LED luminaries to 1 court Lux Level = 200lux				

Serial	Location	Facility	Hierarchy	Activity	Action	Short 0-3 years	Medium 4-8 years	Long 9-12 years	OSRS Action
27.	Marlee	Marlee Recreation Reserve	Local	Tennis	1. Remove 2 x wooden poles and install 4 x new 2. Install new LED luminaries Lux Level = 200lux (See Court Strategy for future use).				
28.	Nabiac	Nabiac Oval	Local	Tennis Football Cricket	Football 1. Install 4 x new poles 2. Install new LED luminaries Lux Level = 50lux Tennis 1. Replace 4 x wooden poles 2. Install new LED luminaries Lux Level = 200lux				✓
29.	Nabiac	Nabiac Showground and Aub Ferris Sports Complex	Local	Rugby Union Football	Aub Ferris Sports Complex 1. Remove 2 x wooden poles and install 4 x new 2. Install new LED luminaries Lux Level = 100lux				
30.	Old Bar	Old Bar Reserve EG Trad	District	Rugby Union Cricket Football	Eastern Field (Chris Dempsey Field) 1. Install 4 x new poles 2. Install new LED luminaries Lux Level = 100lux Richard Crook Union Field 3. Install new LED luminaries Lux Level = 100lux				✓

Serial	Location	Facility	Hierarchy	Activity	Action	Short 0-3 years	Medium 4-8 years	Long 9-12 years	OSRS Action
31.	Old Bar	Old Bar Park	Local	Rugby League Cricket Athletics Netball	Rugby League 1. Install 2 x new poles to add to existing 4 x poles 2. Replace metal halide to LED luminaires Lux Level = 100lux Multi-purpose courts 3. Install 2 x new poles 4. Install new LED luminaires Lux Level = 100lux				✓
32.	Stroud	Stroud Showground and Kevin Francis Park	District	Rugby League Tennis Football Cricket	Showground arena (sports field) 1. Remove wooden poles and install 4 x new 2. Install new LED luminaires Lux Level = 100lux				
33.	Taree	Taree Regional Recreation Ground	Regional	Netball	Netball Courts 1. Remove wooden poles and install 8 x new 2. Install new LED luminaires Lux Level = 200lux (adjustable)				
34.	Taree	Taree Regional Recreation Ground	Regional	Hockey	Allan Taylor Hockey Field 1. Remove wooden poles and install 4 x new 2. Install new LED luminaires Lux Level = 350lux				

Serial	Location	Facility	Hierarchy	Activity	Action	Short 0-3 years	Medium 4-8 years	Long 9-12 years	OSRS Action
35.	Taree	Taree Regional Recreation Ground	Regional	Hockey	Terry Launder's Hockey Field 1. Install new LED luminaries Lux Level = 350lux				
36.	Taree	Taree Regional Recreation Ground	Regional	Hockey	Southern Hockey Field 1. Replace luminaries at end of life Lux Level = 350lux				
37.	Taree	Taree Regional Recreation Ground	Regional	League Cricket	North Football Field (Junior football) 1. Install new lighting system 4 x new poles Lux Level = 50lux				
38.	Taree	Taree Regional Recreation Ground	Regional	League Touch Cricket	4 x Football Fields (League #1 - Frank Mills Field) (League #2 – Un-named) (League #3 – Danny Buderus) (League #4 – Un-named) 1. Remove wooden poles and install 16 x new 2. Install new LED luminaries Lux Level = 100lux				
39.	Taree	Taree Regional Recreation Ground	Regional	Athletics cricket	Stan Austin Fields X 2 1. Install new lighting system 8 x new poles Lux Level = 100lux				

Serial	Location	Facility	Hierarchy	Activity	Action	Short 0-3 years	Medium 4-8 years	Long 9-12 years	OSRS Action
40.	Taree	Omaru Park	District	Football	Centre Field 1. Remove wooden poles and replace with 4 x new 2. Install new LED luminaries Lux Level = 100lux				
41.	Taree	Omaru Park	District	Football	Western Field 1. Install new lighting system 4 x new poles 2. Install new LED luminaries Lux Level = 50lux				
42.	Taree	Omaru Park	District	Football	Eastern Field 1. Install new lighting system 4 x new poles 2. Install new LED luminaries Lux Level = 50lux				
43.	Taree	Wrigley Park	District	Tennis Multi-purpose	Tennis 1. Install new LED luminaries to tennis courts Lux Level = 250lux Multi-purpose 2. Replace wooden poles and install new LED luminaries Lux Level = 200lux				
44.	Taree	Taree Park (Johnny Martin Oval)	Regional	AFL Cricket	1. Remove all wooden poles and replace with 4 x new 2. Install new LED luminaries Lux Level = 100lux				

Serial	Location	Facility	Hierarchy	Activity	Action	Short 0-3 years	Medium 4-8 years	Long 9-12 years	OSRS Action
45.	Taree	Urara Football	Local	Rugby Union	1. Remove 6 x wooden poles and replace with 4 x new poles 2. Install new LED luminaries Lux Level = 100lux				
46.	Tea Gardens	Memorial Park Sports Field	Local	Football Cricket	1. Install new lighting system 4 x new poles 2. Install new LED luminaries Lux Level = 100lux				
47.	Tinonee	Tinonee Recreation Ground	Local	Football Tennis	Bob Collier Field 1. Replace 2 X wooden poles with 4 x new poles 2. Install new LED luminaries Lux Level = 50lux Tennis 3. Replace 6 x wooden poles 4. Install new LED luminaries Lux Level 200lux				✓
48.	Tuncurry	Tuncurry Sports Complex	District	Football Tennis Athletics	South St Cricket Oval 1. Replace 1 x wooden pole with 4 x new poles 2. Install new LED luminaries Lux Level 100lux Tennis 3. Replace 7 x wooden poles with 8 x metal poles 4. Install new LED luminaries Lux Level = 200lux				✓

Serial	Location	Facility	Hierarchy	Activity	Action	Short 0-3 years	Medium 4-8 years	Long 9-12 years	OSRS Action
49.	Tuncurry	North Tuncurry Sports Complex	District	Touch Rugby Union	Peter Barclay Fields (Touch football) 1. Replace 8 X wooden poles 2. Install new LED luminaries Lux Level = 100lux				✓
50.	Tuncurry	North Tuncurry Sports Complex	Regional	Rugby League Rugby Union Touch Football	Football (Harry Elliott Oval) 1. Install new LED luminaries Lux Level = 200lux (adjustable)				
51.	Tuncurry	North Tuncurry Sports Complex	Regional	Rugby League Rugby Union Touch Football	Football (Western league field) 1. Install 4 x light poles 2. Install new LED luminaries Lux Level = 100lux				

Serial	Location	Facility	Hierarchy	Activity	Action	Short 0-3 years	Medium 4-8 years	Long 9-12 years	OSRS Action
52.	Wingham	Wingham Sporting Complex	District	Rugby League Football Cricket Touch	<p>#1 League 1. Install new LED luminaries Lux Level = 200lux (adjustable)</p> <p>#2 Warriors (Touch) 2. Install new LED luminaries Lux Level = 100lux</p> <p>Ken Malpass Football Field #3 (football) & #4 (rugby league) 3. Install new LED luminaries Lux Level = 100lux</p> <p>Junior League #5 4. Install 4 x light poles 5. Install new LED luminaries Lux Level = 50lux</p>				

Appendix 2 – Existing Sports Lighting Infrastructure

Asset	Description	Parent UID	Details
10102310	4 x Floodlights Aub Ferris Nabiatic	Aub Ferris Sports Complex	4 x Floodlights Aub Ferris Sports Complex, Nabiatic Average Lux 131 Poles 4 x 16m Wood Globes 12 x 1500W Metal Haide. Power Supply 63amp 3 phase
10104607	Power Box - Aub Ferris Sports Complex	Aub Ferris Sports Complex	Power Box - Aub Ferris Sports Complex - Nabiatic
10207079	2 x Floodlights Blackhead Sports Field	Blackhead Sports Fields James Forster	2 x Floodlights Blackhead Sports Field Average Lux 46.83 Globes 12 x 2000W Briteling Fittings
10104308	6 x Floodlights Boronia Park Netball	Boronia Park	6 x Floodlights Boronia Park Netball, Forster Average Lux 45 Globes 16 - 4x2kw+12x1.5kw 4xjet 4xMH 8xsyl Power Supply - 63amp 3 phase 1 x additional pole installed for Eagles nest
0000154	Floodlights - Boronia Park - Field #1	Boronia Park	Floodlights - Boronia Park - Soccer - Field 1 - Forster Average Lux 100 Globes 12 - TLC-LED 1150w Musco Mains Power Supply 32amp 3 phase
10107307	4 x Floodlights Boronia Soccer Field #2	Boronia Park	4 x Floodlights Boronia Park Soccer Field 2, Forster Average Lux 45 Globes - 16 8x2kw+8x.5kw 8xjet 8xsyl Mains Power Supply 32amp 3 phase

Asset	Description	Parent UID	Details
10107934	4 x Floodlights Boronia Soccer Field #3	Boronia Park	4 x Floodlights Boronia Park Soccer Field 3, Forster Average Lux 100 Globes 12 TLC-LED 1150w Musco Mains Power Supply 32amp 3 phase
10103026	4 x Floodlights Bulahdelah Show Arena	Bulahdelah Showground	4 x Floodlights Bulahdelah Showground Arena Average Lux 55 Globes 12 1500W Metal Haide Musco Mains Power Supply 63amp 3 phase
10206949	2 x Floodlights Central Park	Central Park	2 x Floodlights Central Park Wingham Average Lux 25 Globes 6 1000W GEC Spacefloods Mains Power Supply 100 amp 3 phase Power to Lights 6mm twisted copper aerial cables.
10206420	4 x Floodlights Chatham Park	Chatham Park	4 x Floodlights Chatham Park Average Lux 18.5 4 x 12m wooden poles Globes 4 1000W GEC Broadlumes metal halide Mains Power Supply - Single Phase 100 amp
10207202	3 x Floodlights Coopernook Oval	Coopernook Oval	3 x Floodlights Coopernook Oval Average Lux - Unknown Poles 3 x 15m Wood Globes 6 x 1500W GEC Spacefloods 415 volt Mains Power Supply Three phase 100 amp supply
10206369	2 x Floodlight Cundletown Park Playground	Cundletown Park - Green	2 x Floodlights & steel poles Cundletown Park

Asset	Description	Parent UID	Details
10002280	4 x Floodlights Cundletown Oval	Cundletown Park - Sportsground	4x Floodlights and Poles Cundletown Oval Installed May 2020 - project funding SCC
10206368	6 x Floodlights Cundletown Tennis	Cundletown Park - Tennis	6 x Floodlights Cundletown Tennis
10206630	2 x Floodlights Edinburgh Park	Edinburgh Park	2 x Floodlights Edinburgh Park Average Lux 17.95 Poles 2 x 15m Wood Globes 6 - 4 x 1000W, 2 x 1500W 4 x GEC Spacefloods 1 x GEC Broadlume" Mains Power Supply - single phase 100 amps Supply to lights - twisted aerial 25mm 100 amps.
10011737	Floodlights EG Trad Chris Dempsey Field	EG Trad Sportsground	4 x Floodlights EG Trad Sports Fields, Chris Dempsey (in front of clubhouse) Gifted asset- project completed December \$2022. \$190,000 - Refer to DOCS Luminaire: Philips Optivision BVP528 LEDGine: 1xLED2130/757 QTY: 16 x BVP528 - Watt 1420
10206726	5 x Floodlights EG Trad Soccer Fields	EG Trad Sportsground	5 x Floodlights EG Trad Sports Fields, Soccer Fields Average Lux ? Poles 4 x wood Globes 15 x 2000W
10207818	4 x Floodlights EG Trad Union	EG Trad Sportsground	4 x Floodlights EG Trad Sports Field Richard Crook Rugby Union Field Average Lux - Unknown Poles 4 x wood Globes - 12 x 1500 W

Asset	Description	Parent UID	Details
10207272	1 x Floodlights Esmond Hogan Netball	Esmond Hogan Park	1 x Floodlights Esmond Hogan Park - Netball 1 wood poles with 3 globes
10207274	3 x Floodlights Esmond Hogan Park	Esmond Hogan Park	3 x Floodlights Esmond Hogan Park Average Lux 46.23 Poles 2 x 17m Wood Globes 6 x 2000W Sylvania Briteline Mains Power Supply 3 Phase 100 amp Supply to lights - 2 Phase 415 volt
10207276	2 x Floodlights Esmond Hogan Tennis	Esmond Hogan Park	2 x Floodlights Esmond Hogan Park - Tennis
10106066	5 x Light & Post Forster Boat Harbour	Forster Boat Harbour	5 x Light & Post Forster Boat Harbour
10105434	35 x Light & Post Forster Breakwall	Forster Breakwall	35 x Light & Post Forster Breakwall
10104203	4 x Floodlights Forster Sports	Forster Sports Complex	4 x Floodlights Forster Sports Complex, Lake Street Forster Average Lux 45 Poles 4 x 16m Wood Globes 11- 10x1.5kw 1x2kw 7xMH 1xJet 3xPhilips Mains Power Supply - 63amp 3 phase
10002442	32 x Floodlights Forster Tennis	Forster Sports Complex - Tennis	Floodlights Forster Tennis - Lake Street \$177,793 3 x rows double - 24 Lights (4x2x3) 2 x rows single - 8 lights (4x2) Average Lux 371.45 ELA Unilux Sharp Cut Off 600 Watt LED - Type FTW1v2 8 metre mounting height

Asset	Description	Parent UID	Details
10102385	1 x Floodlight Forster Town Park	Forster Town Park	3 x LED Floodlights Forster Town Park 1 x pole
10102386	9 x Light & Post Forster Town Park	Forster Town Park	9 x Light & Post Forster Town Park
10206579	Power Box - Fotheringham Park - Taree	Fotheringham Park	Power Box - located on river side of park near footpath - Fotheringham Park - Taree
10009373	Illuminator Gloucester District Park	Gloucester District Park	Illuminator controller at Gloucester District Park Phone 0419 351 366 Oval 1 North On PPPP11 Off PPPP01 Oval 1 South On PPPP12 Off PPPP02 0407 912 560 Oval 3 Bert Gallagher Nth On PPPP11Off PPPP01 Oval 3 Bert Gallagher Sth On PPPP12 Off PPPP02
10307562	Lights - Gloucester Farley Gates	Gloucester District Park - Farley Gates	lights Gloucester District Park - Farley Gates Playground
10307532	4 x Floodlights Gloucester Netball	Gloucester District Park - Netball	4 x Floodlights Gloucester District Park Netball Average Lux - Unknown Poles 4 x wood with 6 globes
10307509	Dispose 4 x Floodlights Union Oval #1	Gloucester District Park - Oval #1 Rugby	4 x Floodlights Oval #1 Gloucester District Park Dispose - Lighting Upgraded Asset 10005947 Average Lux 91 Poles 4 x 18m Wood Globes 16 2000w jet Mains Power Supply 80amp 3 phase

Asset	Description	Parent UID	Details
10005947	4 x Floodlights Oval #1 Gloucester	Gloucester District Park - Oval #1 Rugby	4 x Floodlights Oval #1 Rugby Union - Gloucester District Park Funded through R1 SCCC Average Lux ? Poles 4 x Height? Wood Globes ?w jet Mains Power Supply
10307500	4 x Floodlights Bert Gallagher Oval #3	Gloucester District Park - Oval #3 Bert	4 x Floodlights Oval #3 Bert Gallagher League Field, Gloucester District Park - Condemned pole replaced Dec 22 Stowe Average Lux 42 Poles 4x 15m Wood Globes 8 2000w jet Mains Power Supply - 80amp 3 phase
10008421	4 x Floodlights Gloucester Soccer Field	Gloucester District Park - Sportsground	4 x Floodlights Gloucester Soccer Field Gifted Asset - project came to \$183,646.40 funded by grant & soccer club Poles 4 x 20m Steel Globes 3 poles with 3 globes, 1 pole 2 globes x 1280W
10010469	Floodlights Gloucester clay Tennis Court	Gloucester District Park - Tennis	Floodlights Gloucester District Park Tennis 9 x clay Courts - 16 poles 2 poles with one globe on each = 2 globes 10 Poles with 2 globes = 20 globes 4 Poles with 4 globes = 16 globes

Asset	Description	Parent UID	Details
10307545	Floodlights Gloucester Tennis	Gloucester District Park - Tennis	Floodlights Gloucester District Park Tennis 6 x Grass Courts - 9 poles 14 Globes 9 x clay Courts - 24 Poles 36 Globes - audit July 2022 found lights on clay courts have been upgraded with steel poles and new light globes - new asset created
10308464	6 x Light & Post Gloucester Pool	Gloucester Swimming Pool Site	6 x Post Gloucester Swimming Pool 12 lights
10207339	4 x Light & Post Gordon Smith Reserve	Gordon Smith Reserve	4 x Light & Post Gordon Smith Reserve, Harrington
10001383	5x Flood Lights Harry Bennett Park	Harry Bennett Park	5x Flood Lights Harry Bennett Park, Taree - along fence line looking down onto park
10001384	Flood Lights Harry Bennett Park	Harry Bennett Park	Flood Lights Harry Bennett Park, Taree -
10002019	Power Box Henderson Reserve Gloucester	Henderson Reserve	Power / Electrical Box Henderson Reserve Gloucester -
10002020	Lights x 4 Henderson Reserve	Henderson Reserve	Lights x 6 Henderson Reserve Gloucester - 4 x at bridge 2 x at junction of small paths from Henderson Street
10207875	2 x Floodlights Mt George Tennis	Hope Andrews Reserve	2 x Floodlights Hope Andrews Reserve, Mount George Tennis Club
10007865	Floodlights Jack Ireland Sports	Jack Ireland Sports Complex	2x Poles with 5 floodlights per pole Jack Ireland Sports Complex Bulahdelah - installed Club received grant money March 2021 Poles 2 x steel

Asset	Description	Parent UID	Details
			Globes 10 x 1280kw Mains Power Supply
10207587	4 x Floodlights Killabakh Tennis	Killabakh Community Reserve	4 x Floodlights Killabakh Reserve - Tennis
10206833	2 x Floodlights Kimbriki Tennis	Kimbriki Tennis Reserve	1 x Floodlights Kimbriki Reserve Tennis
10307698	1 x Floodlights King George V Memorial	King George V Memorial Park	1 x Floodlights King George V Memorial Park
10207193	2 x Floodlights Lansdowne Tennis	Lansdowne Recreation Reserve	2 x Floodlights Lansdowne Tennis
10001737	4 x Floodlights Lansdowne Oval	Lansdowne Recreation Reserve	4 x Steel Poles 18 x Floodlights Lansdowne Oval New poles and lights including electrical works Funded through SCC Rd2
10206864	4 x Poles & Lights Leo Carney Tennis	Leo Carney Park - Krambach Tennis	4 x Steel Poles Leo Carney Park - Tennis 8 x lights
10206848	4 x Floodlights Marlee Reserve Tennis	Marlee Recreation Reserve	4 x Floodlights Marlee Reserve Tennis 3 x timber poles
10206464	3 x Floodlights Muscio Park	Muscio Park	3 x Floodlights Muscio Park Average Lux 16.07 Poles 3 x 15m Wood Globes 5 x 1000W GEC Spacefloods Mains Power Supply Single Phase 100 amp
10108027	8 x Floodlights Myall Park Tennis	Myall Park Sports Reserve	8 x Floodlights Myall Park Tennis

Asset	Description	Parent UID	Details
10104867	4 x Floodlights Myall Park	Myall Park Sports Reserve	4 x Floodlights Myall Park Hawks Nest Average Lux 45 Poles 4 x 16m Wood Globes 8 - 6x2kw 2x1.5kw 2xASMaxi 4xjet 2xMH Mains Power Supply 32amp 3 phase
10105090	9 x Floodlights Nabitac Showground Arena	Nabitac Showground	9 x Floodlights Nabitac Showground Arena Average Lux 160 Poles 9 x 17m Wood Globes 27 1500W Metal Halide Musco Mains Power Supply 63amp 3 phase
10105886	7 x Floodlights Nabitac Bottom Arena	Nabitac Showground	Floodlights Nabitac Showground - Bottom Arena 3x timber poles 7x lights
10105694	4 x Light & Post North Arm Cove Tennis	North Arm Cove Community Centre	4 x Light & Post North Arm Cove Tennis Courts located at Community Centre
10102273	4 x Floodlights Harry Elliott Oval	North Tuncurry Sports - Harry Elliott	4 x Floodlights Harry Elliott Oval, North Tuncurry Sports Complex, Tuncurry Average Lux 50 Poles - 4 x 18m Steel Globes 20 2000W - Brand Jet Mains Power Supply - 4 x 63amps 3 phase
10104979	8 x Floodlights North Tuncurry Touch	North Tuncurry Sports Complex - Touch	8 x Floodlights North Tuncurry Peter Barclay Sports Fields - Touch Average Lux 45 Poles 8 x 16m Wood Globes 16 13x1.5kw 3x2kw 13x MH 3xJet

Asset	Description	Parent UID	Details
10104980	4 x Floodlights North Tuncurry Union	North Tuncurry Sports Complex - Union	4 x Floodlights North Tuncurry - Peter Barclay Sports Fields Union 12 X led lights installed on 4 X new timber poles 1150W
10206790	4 x Floodlights Old Bar Western Field	Old Bar Park - Sportsfields	4 x Floodlights Old Bar Sportsfields - Western field Average Lux - Unknown Poles - 4 x steel Globes 18 x 2000W
10206791	20x Floodlights Old Bar Sportsfields Eastern field	Old Bar Park - Sportsfields	20 x Floodlights Old Bar Sportsfields - Eastern field 14 x Poles Average Lux - Unknown Poles 3 x steel Globes 18 x 2000W
10010683	Floodlights Old Bar Tennis	Old Bar Park - Tennis Area	20 x Floodlights Old Bar Park Tennis - Installed July 2022 - Gifted Asset 8 x poles single fitting 6 x poles double fitting 20 x 450w LED fitting
10206451	4 x Floodlights Omaru Park	Omaru Park	4 x Floodlights Omaru Park Average Lux 86.74 Poles 3 x 17m 1 x 18m Wood Globes 16 - 8 x 1500W, 8 x 2000W Sylvania Britelines, GEC Olympic Floods, GEC Space Floods Mains Power Supply 3 Phase 100 amp

Asset	Description	Parent UID	Details
10107966	4 x Floodlights Pacific Palms Tennis	Pacific Palms Community Centre	4 x Floodlights Pacific Palms Tennis - Pacific Palms Community Centre
10102286	7 x Floodlights Pacific Palms Sports	Pacific Palms Sports Complex	7 x Floodlights Pacific Palms Sports Average Lux 45 Poles 5 x 16m Wood Globes - 12 4x2kw 8x1.5kw 4xjet 3xsyl 5xMH Mains Power Supply 63a 3 phase
10000775	Lights Stroud Tennis Courts	Stroud Showground	Tennis lights at Tennis Courts - Stroud Showground 8 x 8m poles with 2 luminaries on each, 350Lux Minimum across playing courts and carpark with halytec control system . 12 x 520w Philips LED Floodlight - Stramac Lighting \$71,280 Opened August 2019
10105016	2 x Floodlights Stroud Rodeo Arena	Stroud Showground	2 x Floodlights Stroud Rodeo Arena, Stroud Showground Average Lux 65 Poles 4 x 15m Wood Globes 15 8x2kw 7x1.5kw 8xjet 1xphilips 6xMH Mains Power Supply 80amp 3 phase
10105020	6 x Floodlights Stroud Sportsfield/Arena	Stroud Showground	6 x Floodlights Stroud Sportsfield/Arena, Stroud Showground Average Lux 45 Poles - 6 x 15m Wood Globes 12 1500w Sylvania Mains Power Supply 80amp 3 phase

Asset	Description	Parent UID	Details
10206476	3 x Floodlights Johnny Martin Oval	Taree Park	3 x Floodlights Johnny Martin Oval, Taree Park Average Lux - Unknown Poles 3 x 17m Wood Globes 9 6 x 1000W 3 x 1500W
10207763	8 Floodlights Allan Taylor Memorial Hockey Field	Taree Recreation Ground	8 x Floodlights Allan Taylor Memorial Hockey Field #1 - Taree Regional Recreation Ground Average Lux - Unknown Poles 8 x Steel Globes 24 2000W
10207764	6 Floodlights Terry Launder's Hockey Field	Taree Recreation Ground	6 x Floodlights Terry Launder's Hockey Field #2 - Taree Regional Recreation Ground, Average Lux - Unknown Poles 6 x Steel Globes 20 2000W
10207799	4 x Floodlights Taree Zone Field	Taree Recreation Ground	4 x Floodlights Taree Zone Field FMNC - Taree Regional Recreation Ground, Taree Rec Ground
10207746	4 x Floodlights Taree Netball	Taree Recreation Ground	6 x Timber poles 20 x lights
10208512	4 x Floodlights Taree League 3	Taree Recreation Ground	4 x Floodlights Taree League 3, Taree Regional Recreation Ground, Taree Rec Ground Average Lux 189.69 Poles 4 x 25m Steel Globes - 22 2000W Thorn Mundial Mains Power Supply 250 amps with a capacity for 400 amps.

Asset	Description	Parent UID	Details
10208513	4 x Floodlights Taree League 2	Taree Recreation Ground	4 x Floodlights Taree League 2, Taree Regional Recreation Ground, Taree Rec Ground Average Lux 93.57 Poles 4 x 20m Steel Globes 18 1500W Sylvania Briteline Mains Power Supply 250 amps with a capacity for 400 amps.
10208514	4 x Floodlights Taree League 4	Taree Recreation Ground	4 x Floodlights Taree League 4, Taree Regional Recreation Ground, Taree Rec Ground Average Lux 171.02 Poles 4 x 25m Steel Globes 22 2000W Thorn Mundial Mains Power Supply 250 amps with a capacity for 400 amps.
10208292	4 x Floodlights Taree Hockey 3	Taree Recreation Ground	4 x Floodlights Taree Hockey 3, Taree Regional Recreation Ground, Taree Rec Ground Average Lux - Unknown Poles 4 6 x Steel Globes 20 2000W
10003182	Lights Criterium Track	Taree Recreation Ground	Lights around Criterium Track, Taree Regional Recreation Ground, Taree Rec Ground Average Lux - unknown 62 Globes 150W One light phase is linked to the cricket nets if reported to be left on.

Asset	Description	Parent UID	Details
10003186	4 x Floodlights Taree League 1	Taree Recreation Ground	4 x Floodlights Taree League 1 Taree Regional Recreation Ground, Taree Rec Ground Average Lux 86.53 Poles 4 x 18m Steel Globes 12 1500W Sylvania Briteline Mains Power Supply 250 amps with a capacity for 400 amps.
10009378	Illuminator Taree Rec Netball	Taree Recreation Grounds	Illuminator Controller at Taree Rec Netball Phone 0439 352 509 Court 9 & 10 On PPPP11 Off PPPP01 Court 11 & 12 On PPPP12 Off PPPP02 Court 8 On PPPP13 Off PPPP03 Court 13 On PPPP14 Off PPPP04
10206437	6 x Floodlights Taree Rugby Park	Taree Rugby Park	6x Floodlights Taree Rugby Park Average Lux - Unknown Poles 6 x wood Globes 17 x 1500W
10207159	3 x Floodlights Tinonee Rec Ground Oval	Tinonee Recreation Reserve	3 x Floodlights Tinonee Recreation Ground Oval Average Lux 11.13 Poles 2 x 19m Wood Globes - 6 1500W GEC Spacefloods Mains Power Supply - 3 Phase 100 amp
10207164	4 x Floodlights Tinonee Tennis	Tinonee Recreation Reserve	4 x Floodlights Tinonee Tennis 4 x timber poles
10104528	1 x Floodlights Tuncurry Oval	Tuncurry Sports Complex - Oval	1 x Floodlights Tuncurry Oval 1 x additional pole installed for Eagles nest

Asset	Description	Parent UID	Details
10102260	4 x Floodlights Tuncurry Sports Soccer	Tuncurry Sports Complex - Soccer	4 x Floodlights Tuncurry Sports Soccer 1 x timber pole used for training
10001759	6 x Floodlights Tuncurry Sports Soccer	Tuncurry Sports Complex - Soccer	6 x steel poles Tuncurry Sports Soccer 28 x lights New installation May 2020 Tuncurry Soccer funded project through grant money
10206836	4 x Floodlights Wherrol Flat Reserve Tennis	Wherrol Flat Reserve	4 x Floodlights Wherrol Flat Reserve Tennis
10206984	4 x Floodlights Wingham Sports Basketball	Wingham Sporting Complex - Basketball	4 x Floodlights Wingham Sports Complex - Basketball Average Lux - Unknown Poles - 4 wooden
10206968	4 x Floodlights Wingham Sports Ken Malpass	Wingham Sporting Complex - Ken Malpass	4 x Floodlights Wingham Sports Complex - Ken Malpass Fields Average Lux - Unknown Poles - 6 x Steel Globes 26 1500W
10206995	4 x Floodlights League #1 Wingham Sports Complex	Wingham Sporting Complex - League #1	4 x Floodlights League #1 Wingham Sports Complex Average Lux - Unknown Poles 4 x Steel Globes 20 2000W
10206980	4 x Floodlights Wingham Soccer Rec 2	Wingham Sporting Complex - Warriors #2	4 x Floodlights Wingham Sports Cpmplex - Rec 2 Warriors Soccer Field Average Lux - Unknown Poles 4 x Steel

Asset	Description	Parent UID	Details
			Globes 28 2000W
10001444	6 x Floodlights Wingham Tennis	Wingham Tennis	6 x Floodlights Wingham Tennis 16 led lights 6 timber poles
10206595	7 x Floodlights Wrigley Park	Wrigley Park	Floodlights Wrigley Park, Taree 4 at old tennis area 3 for sportsfield - Average Lux 15.85 Poles 3 x 15M wood Globes 8 1000W GEC Broadlumes Power Supply Single Phase 100 amp
10206603	10 x Floodlights Wrigley Park Tennis	Wrigley Park	10 x Steel Poles 20 x Floodlights Wrigley Park Tennis
10011732	4 x Floodlights tennis Black Head	Wylie Breckenridge Park- Tennis	Floodlights x 4 poles Blackhead tennis courts Wylie Breckenridge Park Blackhead Gifted asset - tennis club grant - see attachments for all details - Cost \$81,121 Lights LED AHM-M2 (500W x8, 700W x 4, 400W x 1) - see specs Manufacturer Yaham/Caravel MK2

