

SOLAR LIGHTING

SOLAR STREET AND AREA LIGHTING SYSTEMS

Onedex Communications have been researching this technology for some 4 years and have visited factories that manufacture this equipment.

The benefits both financially and environmentally are without question. It is simply a question of the right product for the application.

At Onedex Communications, we work with the client to design the product to fit the need. The client will know what they need, we know how to achieve the required outcome...

THERE ARE MANY BENEFITS OF SOLAR LIGHTING SYSTEMS AND SOME OF THESE ARE:

- Minimal in ground infrastructure
- Zero energy running costs
- Zero CO2 emissions
- Reduced maintenance costs
- Longer life
- No black outs (OH&S friendly)
- Environmentally sound investment
- Reduced carbon footprint

In all installations, a major benefit is the elimination of black outs. In the event of power failure, these lights continue to operate providing a safe and secure environment.

QUICK AND EASY TO INSTALL IN NEW OR EXISTING PROJECTS

In all applications the in ground infrastructure to install these lights is simply the foundation block and anchor bolt and in ground battery box (dependant on client preference).

Once this is in place, the light pole is simply bolted into place and the light is turned on. The lights are controlled either by a "daylight switch", a timer or a combination of both. Lights can also be controlled by remote control using gsm switching from a central point or from mobile phone using SMS, or via Internet. This is the clients choice. Light pole heights and light intensities can vary dependent on the application and the clients requirements.



**CALL US FOR MORE INFO
ON 08 9355 0507**



SOLAR LIGHTING

ENERGY EFFICIENT & SOLAR LIGHTING - EXPLAINED

TYPES OF LOW ENERGY LIGHTING SYSTEMS

STREET LIGHTING AND FLOOD LIGHTING

There are two main types of low energy lighting available today. These are:

LED LIGHTING

INDUCTION LIGHTING

LED LIGHTING

LED lighting consists of either single or multiple LED's (light emitting diodes) fitted into a specific array or arrangement to provide the desired light distribution. These then usually use specifically designed reflectors to assist in spreading and magnifying the light to achieve the desired levels.

These are available in sizes ranging from 20watt through to 160watt lights and provide exceptional light levels and high energy reductions when compared to traditional lighting products. They are available either as Street light heads or as Flood lights or tunnel lights and other specific application designs including hi bays and other indoor factory and warehouse lighting arrangements. The light distribution is different for each and the selection is based on the project requirements and required coverage.

INDUCTION LIGHTING

Induction lighting is light that is similar in its construction to a Fluorescent lamp, however the lamp is endless and without the traditional cathodes that are standard with fluorescent tubes. The lamp is activated by emitting high frequencies into the tube that cause the lamp to light up.

These lights are available in sizes ranging from 40watt up to 300watt and provide exceptional light levels and high energy reductions when compared to traditional lighting products. These lights are available also as Streetlights, flood lights, tunnel lights and other specific applications including hi bays and other styles of indoor lights.

ADVANTAGES OF LED OR INDUCTION LIGHTINGS

Other than the obvious energy and environmental considerations, OH&S is a major consideration in today's business and commercial world. Where personnel are working in large factory or warehouse complexes particularly at night, a simple "electricity brown out" or "power outage" can cause serious issues. Traditional high pressure lamps will go out in these instances and will not "re-strike" for up to 5 minutes. The LED or Induction lights will come back on immediately power is restored or in the case of the "brown out" not go out at all.

This makes for a much safer working environment.

In many warehouses where access is only required from time to time, it is standard practice to leave the hi-bay lights on all day due to the time to bring the lights back on to full brightness. In the case of LED and Induction hi-bay lights, these can be turned on and off as many times as you like with no deterioration to the lamps but with the advantage that they are at FULL brightness immediately, this eliminating the possibility of personnel walking into partially lit warehouse areas and the subsequent issues of tripping and injuries that could occur.

There is also the roll on effect of substantial energy savings where un-used lighting is not left running.

This is a WIN WIN that must be considered for the financial safety and environmental advantages.

Talk to us soon and take advantage of the many government grants that can assist with the implementation of your new lighting system.

COMMON MISS-CONCEPTIONS

There is a miss-conception out there that if you are saving energy you must be also reducing the light output of the unit. This is simply not the case with the equipment provided by Onedex Communications.

There is also the miss-conception out there that if you are seeking to utilize "solar lighting" there will also be a reduced light output to make it viable to use this technology. This also is simply not the case with equipment provided by Onedex Communications.

APPROPRIATE SYSTEM DESIGN

At Onedex Communications, our engineers will go through with the client the required lighting requirements, light levels, preferred colours etc to ensure that the outcome is as required. There is no attempt to reduce the outcome to facilitate either price or lower level equipment.

HIGHWAY AND AREA LIGHTING

Where the option for low energy or solar lighting is being considered for highway or street lighting, it is again the required outcome and light levels that are first considered in the design stages of the project. The light levels and the required coverage are taken into account and light distribution curves and data sheets will be provided to the client to confirm in writing that the product will provide the required outcome with no reduction in light levels.

Onedex Communications Engineers have assessed many existing installations and it seems that lower light levels have been accepted in order to utilize this technology.

If you need lighting for a particular purpose at specific levels and coverage, it CAN be done with LOW ENERGY lighting systems in either LED or INDUCTION lighting. Onedex have access to a wide range of specifically engineered products to meet the project brief rather than "force fitting" standard products to a project.

It should also be noted that IF low energy lighting systems are not suited for any reason, Onedex Communications Team will offer traditional lighting at competitive rates and demonstrate to you the reasons for this.

Talk to us soon about your projects.
We look forward to your enquiries.

Call us now for more info or visit our website at www.onedexcommunications.com.au and click the link to SOLAR LIGHTING or you can go directly to www.solarstreetlighting.com.au

**DON'T ACCEPT LESS THAN
the RIGHT Product for the job**

ONEDEX COMMUNICATIONS PTY LTD
82-86 Beringarra Ave Malaga WA 6090
08 9355 0507