

# Management Guide

## Including Energy Efficiency in Venue Hire Kits

**This Management Guide is an introductory resource developed to outline how energy efficiency can be integrated into Venue Hire Kits. A Venue Hire Kit is prepared to assist touring acts by outlining venue specific technical provisions and operational expectations.**

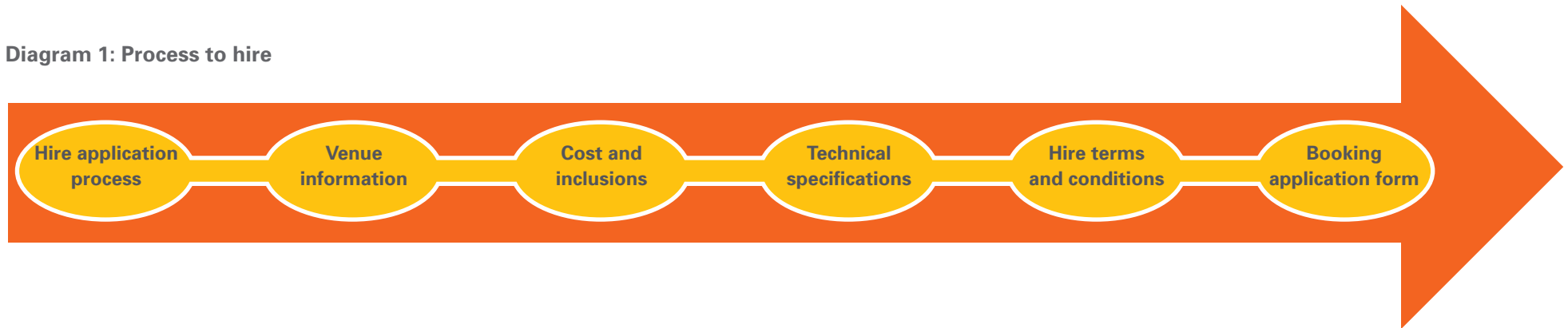
Greener Live Performances  
*through energy efficiency*



A Venue Hire Kit can consist of a number of documents and outlines the process for venue hire. There is an application process, outline of costs inclusions, technical specifications, terms and conditions of hire and the actual booking application form.

Diagram 1 outlines the process to hire. Once this is understood, both venues and hirers are in a position to determine where in the process, energy efficiencies can be captured, documented and endorsed as part of the formal hire agreement.

**Diagram 1: Process to hire**



By including energy provisions, suggested efficiency actions, supporting policies and venue energy reduction targets, the hire kit will provide touring companies with options, choices and information to make aligned production decisions.

The primary objective is to provide sufficient information to the touring production so that both stakeholders work collaboratively toward achieving best-practice energy efficiency outcomes.

The components of the venue hire kit where energy efficiency inclusions could be highlighted include:

- Costs and inclusions;
- Technical specifications; and
- Terms and conditions.



## Costs and inclusions

The costs and inclusions part of the hire process will outline all associated hire costs and inclusions supplied by the venue. This may include or exclude the purchase of electricity needed to power the show.

If electricity is excluded from the general cost of hire, but is an additional charge, it is desirable for the venue to offer metered consumption information. Venues should consider providing:

- stage power consumption information; and
- benchmarking information (if available). Benchmarking can assist with profiling a consumption range between energy-intensive productions and energy-efficient productions.

If electricity is included in costs, venues could offer a predetermined quantity of electricity for consumption, then anything above would be paid for by the visiting hirer. This creates an incentive for hirers to stay below the allocated level and therefore use less energy.

This can be further broken down to each department by passing on a wattage cap or a power limit. However each department would then need to be metered independently and allocated their limit on a show-by-show basis. This would need to be agreed upon by both hirer and venue.

## Technical specifications



Technical specifications usually include an outline of the following:

- Lighting equipment (lamp stock);
- Sound equipment (includes microphones);

- Special effects equipment (projection or other);
- Stage dimensions;
- Rigging capacity; and
- Electrical provisions.

Increasingly, touring productions are looking for ways to integrate new technologies into their lighting, sound and set designs. LED stage lighting, rechargeable microphone systems, LED screens and energy monitoring systems are top on the list of wants.

Communicate what energy efficient stock is available by clearly listing the types of equipment available including specifications on energy input and output achieved. Help designers and tour managers know, without a doubt, that the venue has energy efficient stock available, and you want them to use it!

**Table 1 - Sample lighting specification list inclusions - Profiles**

Make	Model	Watts	Type	Ambient Operating Temperature	Number
Selecon	Acclaim	650W	Tungsten	Maximum 45°C	8
ETC	Source Four LED Lustr+	135W	LED	-20°C to 40°C	10



**Table 2 - Sample audiovisual specification list inclusions - Visual effects**

Make	Model	Watts	Lumen Output	Number	Energy Efficient Model
Christie Projector	Mirage WU7K-J	1600W	6300	1	Yes
ULA	LED 5mm Indoor Screen	860W	6852	1	Yes

**Table 3 - Sample microphone specification list inclusions: - Wireless Microphones**

Make	Model	Rechargeable Battery System	Number of Units	Hours of Operation	Life of Battery
Shure	ULX-D (Digital)	Advanced Lithium-ion	30	Up to 12 hours	Up to 18 months reusable
Shure	BLX Vocal Combo	No – 2AA	15	Up to 14 hours	One show then disposed



## Hire Agreement Terms And Conditions

The hire agreement terms and conditions may include venue specific Energy Efficiency objectives summarised in:

- Technical requirements; and
- Reporting and information sharing.

Technical terms and conditions may outline the requirements of touring productions to:

- Adhere to energy consumption caps; and/or
- Develop reduction targets against benchmark averages.

For these conditions to achieve successful outcomes, the venue will be expected to take responsibility for ensuring that:

- A good mix of old and new generation technical equipment is available, to give production technical designers the best chance to achieve set caps;

- Sufficient historical energy consumption data is available, to provide a reasonable comparison of benchmarked averages; and
- Venue managers/technical managers are available to collaborate with touring production companies to co-create realistic reduction objectives.

Before the hire agreement can be acquitted, measured statistical information is reported by both the venue to the touring company, and visa-versa.

This information may include:

- Show power – total power for the show season and a per show comparison;
- Measure of target against actual show power consumption;
- Lighting plot design against rig electrical consumption;
- Impact of using rechargeable microphone batteries – comparing the cost saving of not using alkaline throwaway batteries;

- Power consumption of LED Screen(s); and
- Power used when washing costumes - washing machines and dryers.

Each area of the venue responsible for these different aspects will need to be committed to collect information and report it back. The two-way sharing of information will continue to build industry knowledge and increase capabilities for further energy reductions in the future.