

# Power Planning Pathway

For outdoor events

Greener Live Performances  
*through energy efficiency*



# POWER PLANNING PATHWAY

## 1. ASSESS

Obtain power requirements from:

- stages
- site
- traders
- talent

Estimate Demand

## 2. MANAGE

- Seek ways to plan-in energy conservation
- Source energy efficient equipment
- Plan for operational efficiencies
- Identify possible power peaks
- Harmonise power peaks and troughs
- Source renewable energy supply

Right-size &  
Right-site  
Gensets

## 3. PERFORM

- Implement conservation and efficiency initiatives
- Monitor and adjust compliance with initiatives at the event
- Meter and measure power and fuel consumption
- Analyse results and assess efficiency performance

Achieve Results

## 4. DISCLOSE

- Feed back outcomes of efficiency and conservation initiatives to power users.
- Debrief with power planning staff and suppliers - successes & future improvements
- Disclose efficiency performance to broader stakeholders including industry and attendees

Share Outcomes



# POWER PLANNING PATHWAY

## ASSESS and MANAGE

- What needs powering?
- When are power estimates provided by power users?
- Are power supply quotas in place?
- Are users charged for additional power?
- Are users requested to consider energy efficient equipment choices?
- Are users required to use certain equipment?
- Is use of certain equipment banned?
- Can power users provide their own renewable energy supply?
- Does talent request certain lighting effects?
- Can the same effect be achieved with less power consumption?
- Do planned effects require significant peaks?
- Are there many such peaks across the entire show or will this talent's effects require gensets kVa to be increased?

## PERFORM and DISCLOSE

- Is someone in the team responsible for checking that initiatives and policies (such as power down) are being carried out during the event?
- Is someone in the team responsible for monitoring power demand by traders and other third parties, to ensure they're only using quota?
- If on house power (mains) are you able to sub meter kWh consumption so you know what was pulled by stage, site and traders?
- If on house power (mains) are you able to sub meter specific stages or areas where energy conservation and efficiency initiatives are in place in order to measure performance?
- Are you able to measure fuel consumption in each mobile genset?
- Are you able to meter kWh drawdown (power demand) on mobile gensets to establish efficiency of each?
- Are renewable energy providers able to provide kWh of power used?



# ESTIMATE DEMAND

## SITE

Performers on stages, installation artists and experiential performers may have specific creative requirements. Lighting and visuals use the largest amount of power on stages and opportunities exist to reduce energy demand if your performing talent are willing to consider energy efficient lighting and equipment. Engage with talent and their teams to design effects with consideration for energy efficiency.

## TALENT

Temporary infrastructure on outdoor sites needs power for such things as amenities, site offices, coolrooms, dressing rooms, medical/first aid, site lighting, and even air conditioning or heating for temporary indoor spaces. You'll need to know what needs power, how much and when, whether energy efficient options are available and how to site activities and power distribution can be planned with efficiency in mind.

## TRADERS

Many events have temporary activation on-site selling food and beverage or goods, and in many cases, needs power. No matter if organised by external traders or managed in-house this category of power user needs some thinking and planning. You'll need to know what could be powered, what low energy alternatives there are, and how to manage what gets brought to site, plugged in and powered up.

## SUPPLIERS

With stage lighting and sound typically accounting for 1/3 of all power demand at outdoor music events, working with AV suppliers to encourage them to source and supply energy efficient equipment is a good long-term strategy. You'll only be able to use on your stages what technology is available and so it is the outdoor music event producer's role to pull energy efficient equipment up through the supply chain by requesting and enquiring of your suppliers.

