

# 10 QUICK SUSTAINABLE WINS

## POWER- CONCERT TOURING

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### 1 USE A POWER ADVANCING APP

Run all fixtures through a power advancing app to accurately calculate your peak and nominal power requirements, plus estimated energy consumption; never use types of plugs for power requirements.

### 3 SCHEDULING

Work with production teams to schedule when generators need to run during build phase; only run gensets in sync when absolutely necessary; share this detail in schedules and call sheets, and affix daily runtime schedules to the outside of generator canopies.

### 5 RENEWABLES AND LOW CARBON SOLUTIONS

Consider deploying midsize battery systems, fed by solar PV and hybridised with generators, for baseload management; consider alternatives to diesel, such as HVO biofuel.

### 7 PEAK SHAVE GENERATORS

Explore options for downsizing generators, for example peak shaving with an inline battery system where only headline acts require additional power.

### 9 MINIMUM STANDARD FOR RECORD KEEPING

Ensure that daily runtime hours, kWh generation, peak power output and fuel usage are all recorded on a daily basis for each generator.

### 2 ALLOCATE ENERGY BUDGETS

During planning, allocate an energy budget to each production discipline, e.g. audio, LX and video, and work with production suppliers to choose the most energy efficient fixtures.

### 4 CONNECT TO HOUSE POWER

Wherever possible, utilise house power; check with venues whether they have a renewable energy tariff and, if not, ask them to explore alternative suppliers; where supplies are not adequate for peak requirements, consider bolstering mains feeds with high storage capacity battery systems (peak shaving); where supplies are considered unreliable, use batteries for redundancy (UPS).

### 6 RUN GENERATORS EFFICIENTLY

Where generators must be used, size them such that they are running at +50% of total generation capacity to optimise kWh generation vs fuel consumption and reduce emissions.

### 8 MONITORING

Use on board telemetry to monitor power generation from generators and battery systems; also monitor at a distribution level, for examples feeds to specific production disciplines, to help set reduction targets in key areas of high energy usage; ensure this is built into contract with power provider.

### 10 TOUR BUSES

Only energise when in use by crew or talent; only run on board HVAC systems when really needed, as these are the most energy intense consumers on the tour buses.

Created 03/05/21 by The Tour Production Group & Zap Concepts who are committed to improving sustainability practices in live events - [www.tourproductiongroup.co.uk](http://www.tourproductiongroup.co.uk) [www.zapconcepts.com](http://www.zapconcepts.com)