







- 50% REDUCTION EMISSIONS by 2025
- The UK's Outdoor Events Environmental Steering Group
- Over 100 major festivals signed the Vision: 2025 Pledge
- Knowledge Hub: reports, case Studies, news































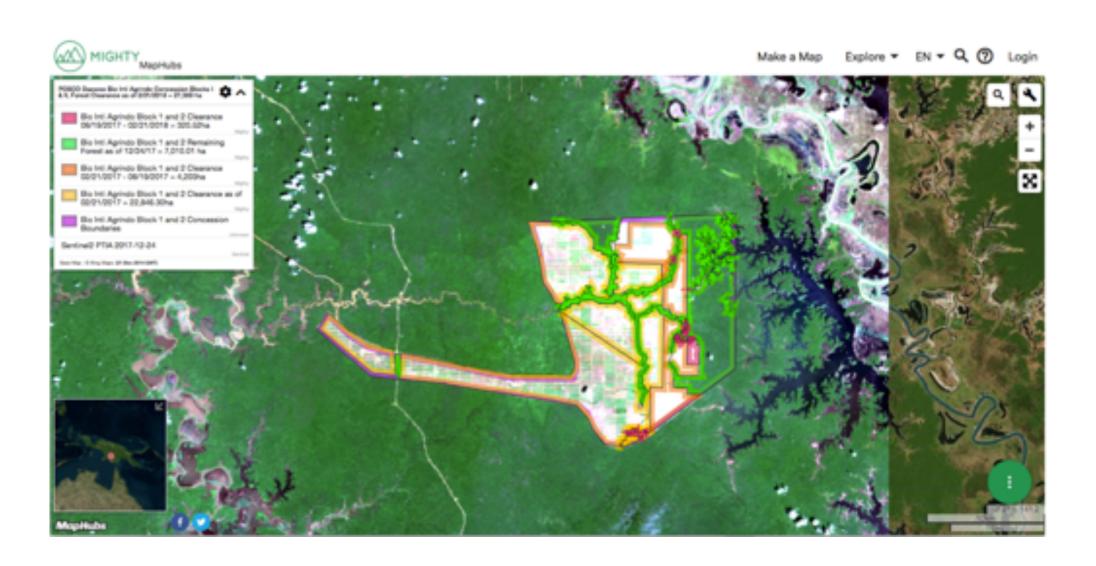




IMPACTS OF ENERGY USE

- Green House Gasses (GHG's) emissions generators
- Air quality
- Transport emissions from deliveries of gensets etc.
- Cost to event organiser fuel & equipment
- Audience experience onsite noise & fumes















At least:

of diesel are consumed by by UK music festivals every year.23

20%

380m 0.5 litres litres

of diesel are consumed by the entire UK events industry every year. 24

of diesel is the average litres used per person per day at music festivals.

of UK festivals use a proportion of biofuel to power their events



AVERAGE ONSITE CARBON FOOTPRINT BREAKDOWN (CO₂e) UK CAMPING FESTIVAL







GENERATORS ARE TOO BIG

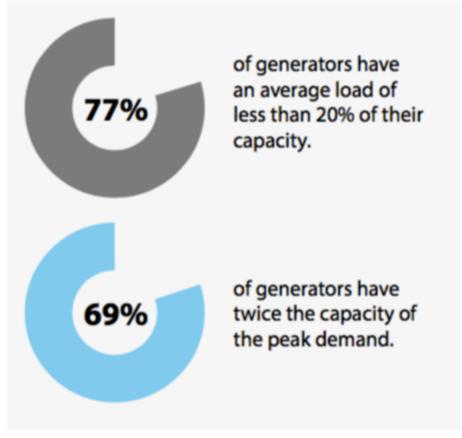
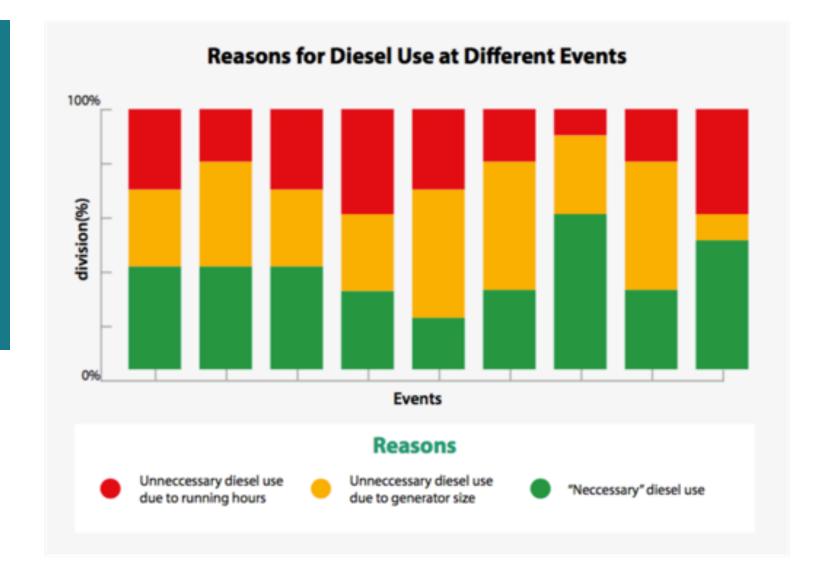


Figure 1. Results of Generator Monitoring 2014–15 (Watt-Now, Holland)



GENERATORS RUNNING WHEN NOT NEEDED





- 1. Inaccurate or absent power specifications in advance.
- 2. Lack of detailed scheduling i.e. generators being run unnecessarily.
- 3. Inefficient and old equipment that uses a lot of power.
- 4. Behaviour e.g. leaving lights or equipment on when not needed.
- 5. Power demands e.g. sponsors and headline act contracts.







THE POWER MANAGEMENT HIERARCHY



Prevention - Do you actually need power in this location or for this application?

Efficiency - Use less power & use it in a more fuel efficient way

Sourcing - Can you use mains instead of generators? Can you use renewables?

Hybrids- Can the system be backed up or bolstered by battery technology?

Alternative fuels - Can you use HVO or other sustainable fuels?

Diesel-fueled generators - only where nothing else can be used



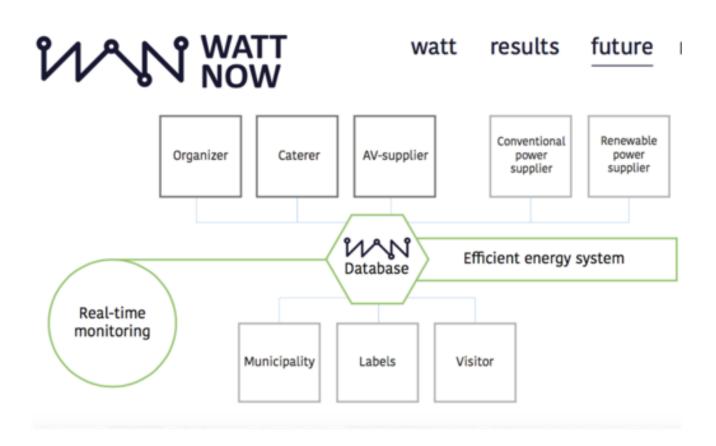
REDUCE DEMAND

- LED stage lighting
- Auto daylight switch-on /off sensors on lighting
- Removing fuses from cabin heaters (if they are not required)
- Supply only 16A to tour buses
- Charging power feeds to concessions
- o 'Switch-off' campaigns for all stalls and contractors



BETTER SYSTEM DESIGN

- Advance information
- Smart systems
- Less redundancy
- 'Power Stations'



SUSTAINABLE POWER SOURCES

- Hybrid system/units
- Hydrogen Fuel Cell
- Solar
- Wind
- Pedal Power
- Grid Connection



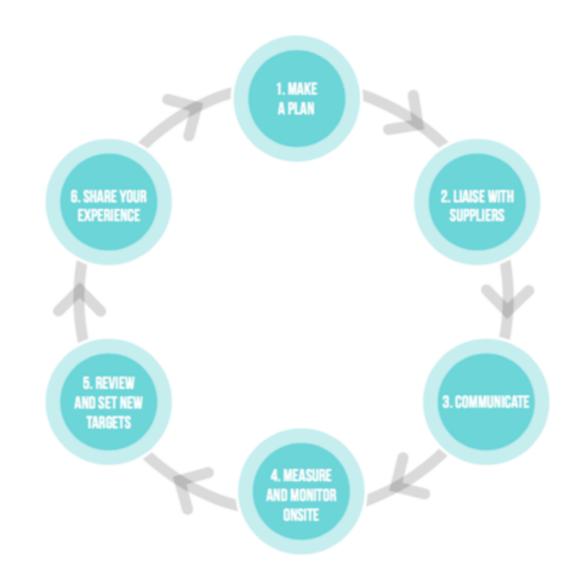


IF YOU REMEMBER NOTHING ELSE...

- 1. Establish what power you really need
- 2. Use the Power Hierarchy to plan
- 3. Collect power data during event (contractor)

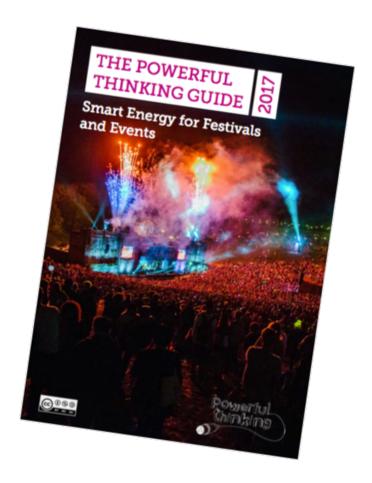


JUST BE SMART





LEARN MORE >



www.powerful-thinking.org.uk chris@vision2025.org.uk