LOOKING TO REDUCE YOUR GENERATOR EMISSIONS?

CREATE A POWER PLAN

PRE-PRODUCTION

ASSESS energy requirements across all departments. Encourage collaboration between key HoDs and identify energy saving options.

CALCULATE required capacity accurately. Generators are most efficient when running at at least 75% of their maximum load. Running a smaller generator for the same load can cut fuel consumption by over 10%.

IDENTIFY your power low points. Are you running generators fit for your peak load when there are minimal power needs, e.g. at weekends and overnight? This is the perfect time for battery/ hybrid use, supplying only the power you need and reducing fuel use.

PRODUCTION

TRACK fuel consumption and generator/ battery telemetry (usage data). This will make your reporting easier and allow you to adapt power setups to be as cost and energy efficient as possible.

QUESTION your energy usage throughout production. Explore sustainable options such as batteries and solar-powered lights, rigs and facilities, and alter your power plan if needed.

CAN YOU CONNECT TO MAINS POWER?

If you can tie into mains power on a certified green tariff it will almost always be the most sustainable option. It also enables simple tracking and reporting of consumption. Check location mains supplies and tariffs as early as possible.
CO2 REDUCTIONS: up to 100% emissions reduction vs diesel.
COST: Low.
COMPLEXITY: Low.

CAN YOU USE BATTERIES OR HYBRID GENERATORS?

Battery technology is evolving fast. There are full battery solutions for numerous production scenarios, whilst hybrid set-ups (battery + generator) maximise generator efficiency (reducing generator run time by up to 66%), and save fuel and money.
CO2 REDUCTIONS: 25% - 100%, depending on whether battery recharges from generator or mains.
COST: Low - Mid.
COMPLEXITY: Low - Mid.

CAN YOU USE CERTIFIED HVO?

Certified HVO should be used rather than diesel wherever possible. It can be used in any diesel engines and generators and can be topped-up with diesel in an emergency. Bulk/ group level HVO deals may be available to productions to lower costs.
CO2 REDUCTIONS: up to 90% emissions reduction vs diesel.
COST: Low - Mid (can be up to 50p per litre more expensive than diesel).
COMPLEXITY: Low.

CAN YOU USE GREEN HYDROGEN?

The cleanest, non-mains option. Units can be large and are best suited to productions with few location moves (providing additional power at a back lot, sound stage or studio). Hydrogen must be from “green” sources (produced with renewable energy).
CO2 REDUCTIONS: up to 100% emissions reduction vs diesel.
COST: High.
COMPLEXITY: Mid-High.

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For more information email: *info@picturezero.com*