QUESTIONNAIRE AI DECOR AND LED

This questionnaire collects the data needed to fill the AI decor and LED calculator (CO_2 footprint and eco-costs of a digital set). Enter what is known; leave unknown fields blank and add a short note or source next to the answer. Each question refers to the input field in the Input tab of the model.

How it works

- Measured values take precedence over datasheets; datasheets over estimates. State the source next to the answer.
- Section 7 is completed by the model owner, not by the production.
- Calculator, explanation and downloads: neweconomy.eco/en/projecten/ai-decor-led-calculator/

Production	
Completed by	
Date	
Version	v1.0 (September 2026), derived from the calculator v2.0-public

1. General

No.	Question	Guidance	Unit	Answer	Model field
1	**Project name**	Name of the production or project	Text		Input!E2
2	**Responsible person**	Name of the responsible contact person	Text		Input!E3
3	**Contact email**	E-mail of the responsible contact person	Email		Input!E4
4	**Production timeframe**	Production timeframe (e.g., Jan – Jun 2027)	Text		Input!E5
5	**Number of performances**	Number of planned performances	Number		Input!E6
6	**Duration per performance**	Average duration per performance (hours)	Hours		Input!E7
7	**Location (city/country)**	Location(s) of rehearsals, performances and test builds	Text		Input!E8
8	**Electricity sourcing evidence / contract note**	Evidence note only. The reporting scenarios in the model control the applied electricity emission factor for all project electricity.	Text		Input!E9
9	**Artist / maker electricity sourcing note**	Evidence note only. The reporting scenarios in the model control the applied electricity emission factor for all project electricity.	Text		Input!E47
10	**LED hardware allocation to current production (base view)**	Base project allocation used by the current circularity view. Leave blank if it should be derived from expected production-equivalent cycles in question 48. The reporting scenarios in the model can override this hardware-allocation assumption.	%		Input!E10

2. AI workflow and electricity use

No.	Question	Guidance	Unit	Answer	Model field
11	**Models/tools used**	Generative models and tools used (e.g. 3D modelling and texturing tools, real-time engine, generative image and video tools, video editing)	List		Input!E11
12	**Resolutions of generated media**	Average resolution of generated images/videos (e.g., 2048×2048, 4K)	Text		Input!E12
13	**GPU/CPU specifications**	Types of GPUs/CPUs used (manufacturer and model series)	Text		Input!E13
14	**Compute environment**	Cloud region or on-prem (specify region if cloud)	Text		Input!E14
15	**AI operational electricity use location**	Where does AI operational electricity use occur? Select 'Internal' for the venue / own facility, 'External' for artist studio or other off-site location, 'Cloud' for data centre / remote provider.	Choice		Input!E45
16	**Number of creative iterations**	Number of iterations/experimental runs during creative stage (including failed runs/re-renders)	Number		Input!E15
17	**Creative workstation / GPU hours**	Total workstation/GPU hours used during creative experimentation	Hours		Input!E16

No.	Question	Guidance	Unit	Answer	Model field
18	**Final-output workstation / GPU hours**	Total workstation/GPU hours used for final content / output	Hours		Input!E17
19	**Average operational power per workstation**	Average operational power draw per local AI workstation used for AI content creation	kW		Input!E18
20	**Datacenter PUE**	Power Usage Effectiveness of the data centre (e.g., 1.2)	-		Input!E19
21	**Number of persons involved**	Number of people involved in AI generation process	Number		Input!E20
22	**Number of local AI workstations**	Number of local workstations / servers used for AI content creation	Number		Input!E21
23	**Source file origin**	Origin of source files used in AI generation (own footage, stock, archival, etc.)	List		Input!E22

3. LED hardware

No.	Question	Guidance	Unit	Answer	Model field
24	**Number of LED screens**	Number of LED screens purchased for this project	Number		Input!E23
25	**LED brand and model**	Brand and model number of the LED screens	Text		Input!E24
26	**Area per screen**	Area of a single LED screen	m²		Input!E25
27	**Pixel pitch**	Distance between pixels (pixel pitch)	mm		Input!E26
28	**Country of origin**	Country of manufacture of LED screens	Text		Input!E27
29	**Critical materials present**	Critical materials contained in the LED screens (e.g., indium, gallium)	Text		Input!E28
30	**EPD/PCF available**	Whether an Environmental Product Declaration or Product Carbon Footprint is available	Yes/No		Input!E29
31	**Embodied carbon per screen**	Embodied carbon per screen from supplier EPD/PCF	kg CO_2-eq		Input!E30

4. LED operation and electricity use

No.	Question	Guidance	Unit	Answer	Model field
32	**Operational power per m² at intended brightness**	Average operational electricity demand at the brightness used	W/m²		Input!E31
33	**Stand-by power per screen**	Power consumption when screen is connected but not displaying content	W		Input!E32
34	**Active hours/day – creative phase**	Hours per day screens are active during creative phase	hours/day		Input!E33
35	**Days – creative phase**	Number of days of the creative phase	days		Input!E34
36	**Active hours/day – decor build phase**	Hours per day screens are active during decor build/testing phase	hours/day		Input!E35
37	**Days – decor build phase**	Number of days of the decor build/testing phase	days		Input!E36
38	**Active hours/day – show phase**	Hours per day screens are active during show phase (performances)	hours/day		Input!E37
39	**Days – show phase**	Number of days of the show phase	days		Input!E38
40	**Stand-by hours per day**	Hours per day screens are in stand-by mode (excluding active hours)	hours/day		Input!E39
41	**Stand-by days**	Number of days with stand-by mode	days		Input!E40
42	**Schedule notes**	Any schedules, automatic dimming or energy-saving measures	Text		Input!E41
43	**LED operational electricity use location**	Where are the LED screens operated during the current production? 'Internal' for the venue / own facility, 'External' for other venues / touring.	Choice		Input!E46
44	**Internal share of LED operational electricity use in current production**	Share of current-production LED operational electricity use assigned to internal operation / Scope 2. Use <100 only when the same production also runs LED hours externally. Future re-use in later productions is not entered here.	%		Input!E63

5. Logistics

No.	Question	Guidance	Unit	Answer	Model field
45	**Transport distance**	Transport distance from manufacturer to venue	km		Input!E42
46	**Transport mode**	Mode of transport (truck, ship, airplane)	Choice		Input!E43
47	**Shipment weight**	Total weight of the shipment including packaging	kg		Input!E44

6. Circularity and service life

No.	Question	Guidance	Unit	Answer	Model field
48	**Expected total production-equivalent cycles (base view)**	Base circularity proxy: expected total production-equivalent uses of the LED asset, including the current production. If question 10 is blank, the base project allocation becomes 1 / cycles.	Number		Input!E49
49	**Formal end-of-life collection rate**	Share of durable LED hardware assumed to enter a formal collection / sorting route at end-of-life. Used only in the circularity sheet.	%		Input!E50
50	**Return / next-use transport distance**	Distance from current project to storage / next production after the show. Used for optional redeployment transport in the circularity sheet.	km		Input!E51
51	**Return / next-use transport mode**	Mode for post-project redeployment transport (truck, ship, airplane). Used only in the circularity sheet.	Choice		Input!E52
52	**LED reference service life (years)**	Working reference service life for the LED asset; fill in the supplier's indicated range.	years		Input!E64

7. Governance (model management)

No.	Question	Guidance	Unit	Answer	Model field
53	**Model version tag**	Human-readable model version / release label for this workbook.	Text		Input!E53
54	**Process owner**	Owner of process, updates and release decisions for the workbook.	Text		Input!E54
55	**Methodology owner**	Owner of boundaries, proxy choices and eco-cost methodology.	Text		Input!E55
56	**Review cadence**	When the model should be reviewed and refreshed.	Text		Input!E56
57	**Fit-for-use status**	Intended use of the current workbook version.	Choice		Input!E57
58	**Next review date**	Planned next governance / QA review date.	Date		Input!E58
59	**Supplier / asset data sign-off**	Status of sign-off for supplier material data, asset evidence and embodied layer assumptions.	Choice		Input!E59
60	**Circularity / end-of-life sign-off**	Status of sign-off for reuse plan, WEEE route and end-of-life assumptions.	Choice		Input!E60
61	**AI usage / cloud data sign-off**	Status of sign-off for AI hardware, provider/cloud assumptions and usage logs.	Choice		Input!E61
62	**QA release gate override**	Optional manual override for the final governance / QA release gate. Leave blank to use the automatic gate.	Choice		Input!E62

Licence and origin

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Developed by New Economy for a Dutch opera house, for a production with AI-generated imagery on LED decor (season 2025–2026). Final reporting model v2.0, April 2026; public version September 2026.

Calculator page: https://neweconomy.eco/en/projecten/ai-decor-led-calculator/

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