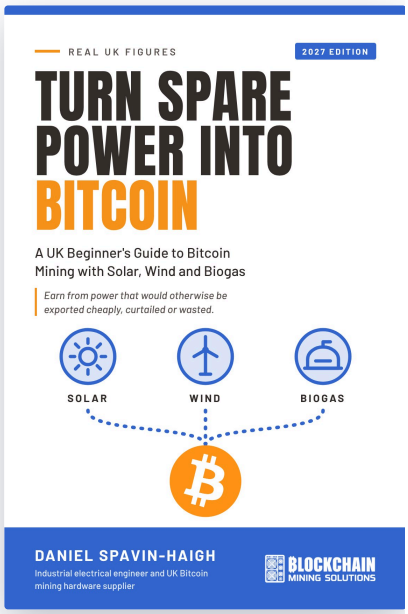
BOOK DOWNLOADS

WORKSHEETS, CHECKLISTS AND TEMPLATES

From *Turn Spare Power into Bitcoin: A UK Beginner's Guide to Bitcoin Mining with Solar, Wind and Biogas*

By Daniel Spavin-Haigh



- Print the pages you need, or fill in the matching Excel workbook on screen.
- Worksheets work out what a machine earns and how long it takes to pay back.
- Checklists take you from site assessment to monthly maintenance.
- Templates help you keep records and agree a hosting contract.

BLOCKCHAIN MINING SOLUTIONS

www.blockchainminingsolutions.co.uk

© 2027 Daniel Spavin-Haigh. Free to print and use for your own projects.

INSIDE THIS PACK

CONTENTS

1. One-page calculator	Chapter 3
2. Full feasibility worksheet	Chapter 18
3. Site assessment and buying hardware checklists	Back of the book
4. Commissioning checklist	Back of the book
5. Monthly maintenance checklist (12-month tracker)	Back of the book
6. Final decision checklist	Chapter 19
7. Site maintenance log	Back of the book
8. Hosting agreement heads of terms	Chapter 14
9. Formula sheet	Back of the book

How to use it

Each page matches a worksheet, checklist or template in the book, and the right-hand column above tells you where it's explained. Work through them in order for a new project: run the numbers, check the site, buy and commission the machines, then keep the site healthy.

For today's revenue figures, use the **Bitcoin Mining ROI Calculator** at www.blockchainminingsolutions.co.uk/pages/bitcoin-mining-roi-calculator, which uses the live bitcoin price and network difficulty. The Excel workbook from the same downloads page does the sums in the worksheets for you.

> Figures in the examples are from 2 November 2026. Bitcoin's price, network difficulty, machine prices and electricity tariffs change constantly, so always use today's figures. This pack is for information only and is not financial advice.

ONE-PAGE CALCULATOR

Run your own numbers in five minutes with a pen and the figures for the day. Use one column for each machine you are considering.

Machine	Machine 1	Machine 2	Machine 3
Model			
Hashrate (TH/s) · power (kW) · price (£)			

Step	What to work out	Machine 1	Machine 2	Machine 3
A	Today's hashprice, in £ per PH/s per day	£	£	£
B	The machine's hashrate in PH/s (TH/s ÷ 1,000)	PH/s	PH/s	PH/s
C	Revenue per day: A × B	£	£	£
D	Power used per day: machine kW × 24	kWh	kWh	kWh
E	Revenue per kWh: C ÷ D	p	p	p
F	What each kWh could otherwise earn (export rate, PPA price, or 0p if curtailed)	p	p	p
G	Net per day: (E − F) × D	£	£	£
H	Months to pay back: machine price ÷ (G × 30)	months	months	months

Reading the result. If E is lower than F, mining that power loses money: export it instead. If H is longer than the months left to the next halving, expected around spring 2028, think hard before you buy.

Worked example (S21 XP, 2 November 2026): A £24.80 · B 0.27 · C £6.70 · D 86.4 kWh · E 7.8p. The machines in the book are the Antminer S19K Pro 115 TH (2.8 kW), S21 Pro+ 245 TH (3.6 kW) and S21 XP 270 TH (3.6 kW).

WORKSHEET 2 · CHAPTER 18

FULL FEASIBILITY WORKSHEET

The full model for your site on paper: the one-page calculator plus running hours and the costs beyond the machines. Compare two options side by side. The Excel workbook and the Bitcoin Mining ROI Calculator do these sums for you.

Step	What to work out	Option 1	Option 2
A	Today's hashprice, in £ per PH/s per day	£	£
B	Revenue per machine per year at full uptime: A × PH/s × 365	£	£
C	Share of the year the machine will run (Step 1)	%	%
D	Revenue per machine per year: B × C	£	£
E	kWh per machine per year: kW × 8,760 × C	kWh	kWh
F	Value of that power if not mined (export price × E; zero for lost power)	£	£
G	Pool fees and running costs per machine per year	£	£
H	Value of heat you'll use, if any (Chapter 16)	£	£
I	Net per machine per year: D − F − G + H	£	£
J	Cost per machine, including its share of building, electrics and network	£	£
K	Payback in months: J ÷ I × 12	months	months

Then stress-test it

- [ ] Run it again with the hashprice 25% lower. Does the project still make sense?
- [ ] Compare the payback with the months left to the next halving, expected around spring 2028.
- [ ] Compare the three machines. On part-time power, the cheaper S19K Pro often wins; on full-time power, the S21 XP usually does.

> If the numbers don't work at today's hashprice, stop here. Keep the model, and revisit it when something changes: your export price, the hashprice, or a new use for the heat.

CHECKLISTS

SITE ASSESSMENT AND BUYING HARDWARE

Site assessment

- [ ] Spare power measured: how much, when, and what it earns now
- [ ] Power lost to export caps or curtailment identified
- [ ] Running hours estimated for each machine
- [ ] Building or location identified, away from neighbours
- [ ] Supply capacity and connection checked
- [ ] Internet available
- [ ] Planning, permits, insurer and neighbours considered
- [ ] Possible uses for the heat identified

Buying hardware

- [ ] Machine chosen to suit your running hours and power value
- [ ] Seller verified: UK company number, address, reviews
- [ ] Invoice shows model, hashrate, price and warranty
- [ ] Delivery date agreed to fit the build
- [ ] Spares ordered: fans, filters, cables, a commando plug

Notes

CHECKLIST

COMMISSIONING

Work through these in order before you leave a new site running. Certification first, then burn-in testing, then controls.

- [ ] Electrical Installation Certificate received
- [ ] Each machine inspected and its serial number recorded
- [ ] Wallet set up and recovery phrase stored safely
- [ ] Pool account set up, with payout address and threshold
- [ ] Each machine connected, pool details entered, default password changed
- [ ] Burn-in test passed: rated hashrate, steady temperatures, all fans working
- [ ] Controls tested: no grid import to run machines
- [ ] Machines labelled with IP address and worker name
- [ ] Pool app alerts switched on

Machine (worker name)	Serial number	IP address	Burn-in passed

CHECKLIST

MONTHLY MAINTENANCE

Tick each task as you do it. Two minutes a day on your pool app, fifteen minutes a week on site and an hour a month on filters keeps most sites healthy.

Year: _____ Site: _____

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Intake filters cleaned or replaced	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Every machine's temperatures and fan speeds checked	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Plugs and sockets checked for heat damage	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Security checked: locks, alarm, cameras, machine count	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Payout history downloaded and saved	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Electricity used recorded from the sub-meter	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Site log updated	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
kWh from sub-meter												

> Push machines harder in winter, ease off in heatwaves, and keep spare fans and filters on site. Every fault, repair and change goes in the site log.

CHECKLIST · CHAPTER 19

FINAL DECISION CHECKLIST

Mining is probably the right answer for your site if most of these are true:

- [ ] You have power that's lost to an export cap or curtailment, or that sells for well under the revenue per kWh in Chapter 3.
- [ ] That power is available for a good share of the year, or you'll choose cheap machines to match part-time power.
- [ ] Your feasibility model works at today's hashprice, and survives a 25% fall.
- [ ] Machines pay back before the next halving, or you're comfortable betting on bitcoin's price.
- [ ] You have, or can create, a suitable building with good airflow and power.
- [ ] The site can be made quiet enough for its neighbours.
- [ ] Planning, your network operator and your insurer are on board.
- [ ] You're comfortable being paid in bitcoin, and have a plan for what to do with it.
- [ ] You or someone you trust will check the site regularly.

Mining is probably the wrong answer if:

- [ ] You'd be running machines on grid power, or on power you'd otherwise use yourself.
- [ ] Your export price is higher than mining's revenue per kWh.
- [ ] Your power is only available for a few hours a year.
- [ ] Neighbours are very close and noise can't be controlled.
- [ ] You'd need to borrow money you couldn't repay if bitcoin fell.

TEMPLATE

SITE MAINTENANCE LOG

Record every fault, repair and change. You will need it for tax, warranty claims and insurance.

Date	Machine (worker name)	What happened	What I did	Downtime	Parts used

TEMPLATE · CHAPTER 14

HOSTING AGREEMENT HEADS OF TERMS

Whether you're hosting someone else's machines or sharing revenue, agree these points in writing, then have a solicitor turn them into an agreement.

Point to agree	What we've agreed
☐ Price per kWh, how it's measured (on which meter), and whether and how it changes over time	
☐ Payment terms, with a deposit or payment in advance, so you're never owed more than a month	
☐ Minimum term and notice period	
☐ Who can switch machines off, and when, for example when your own power is needed, during maintenance, or in a heatwave	
☐ Power limits: the maximum load, and what happens when your generator isn't producing	
☐ Responsibilities for maintenance, repairs, security and insurance	
☐ Access to the site: who, when, with how much notice	
☐ What happens if they don't pay: your right to switch off, and to hold the machines until debts are cleared	
☐ Noise and planning compliance, and who pays if changes are needed	
☐ Removal of the machines at the end, and the condition the site is left in	
☐ Disputes: how they'll be resolved	

REFERENCE

FORMULA SHEET

What you want	Formula	Example (S21 XP, 2 November 2026)
Revenue per day	Hashprice × hashrate in PH/s	£24.80 × 0.27 = £6.70
Energy per day	Power in kW × 24	3.6 × 24 = 86.4 kWh
Revenue per kWh (and break-even power price)	Revenue per day ÷ energy per day, or hashprice ÷ (24 × J/TH)	£6.70 ÷ 86.4 = 7.8p
Efficiency	Power in W ÷ hashrate in TH/s	3,600 ÷ 270 = 13.3 J/TH
Net per day	(Revenue per kWh – value of power per kWh) × kWh per day	(7.8p – 3p) × 86.4 = £4.10
Revenue with part-time running	Full-time revenue × share of the year running	£2,446 × 35% = £856 a year
Payback in months	Machine cost ÷ net per month	£3,100 ÷ £204 = 15.2 months
Machines per kW of supply	Supply in kW ÷ machine kW	100 ÷ 3.6 = 27 machines
Airflow	Machines × 500 CFM, for both exhaust and intake	8 × 500 = 4,000 CFM
Site current	Machines × current per machine	8 × 18 A = 144 A
Heat value	kWh of heat used × cost per kWh of the fuel it replaces	7,900 × 13.6p = £1,070

NEED A HAND?

HELP WITH YOUR MINING PROJECT

Blockchain Mining Solutions supplies Bitmain mining machines, provides remote and on-site support, and designs and builds mining sites, from home sheds to commercial farms running on surplus renewable power.

Check today's figures

Bitcoin Mining ROI Calculator: www.blockchainminingsolutions.co.uk/pages/bitcoin-mining-roi-calculator

Get in touch

Website: www.blockchainminingsolutions.co.uk
Email: info@blockchainminingsolutions.co.uk
LinkedIn: Daniel Spavin-Haigh

Enjoyed the book?

An honest review on Amazon helps other site owners find it.

