

# Driving on Sunshine<sup>®</sup>

Connecting solar PV, batteries & EV  
charge points in car parks



Clients include:



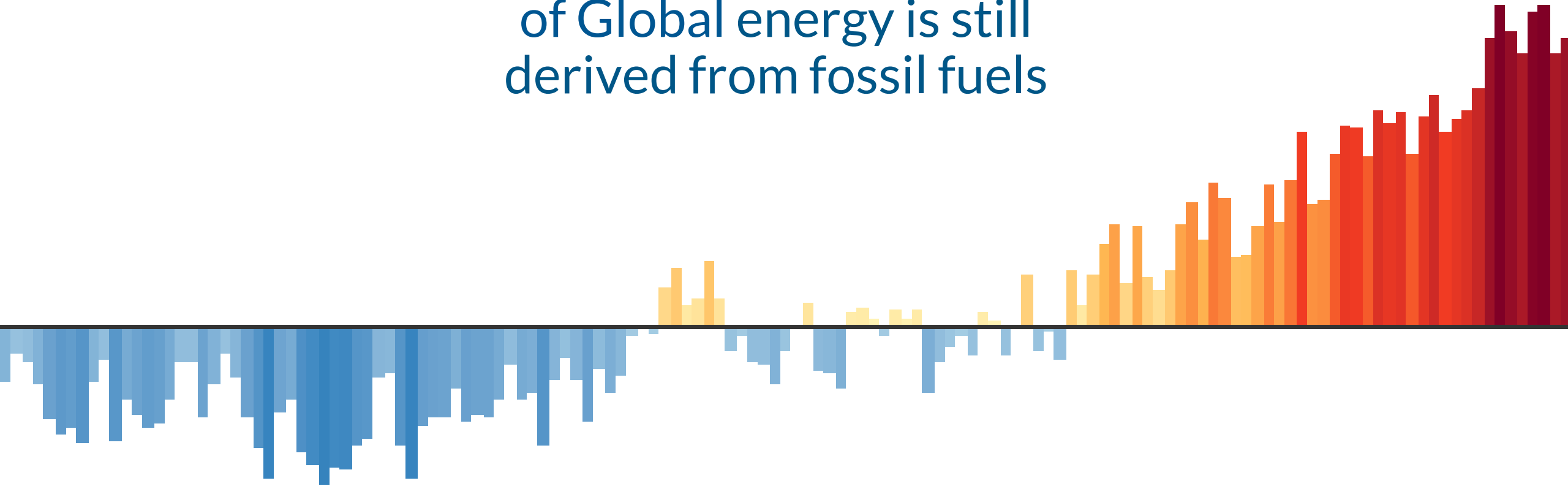
Certified



Corporation

# 82%

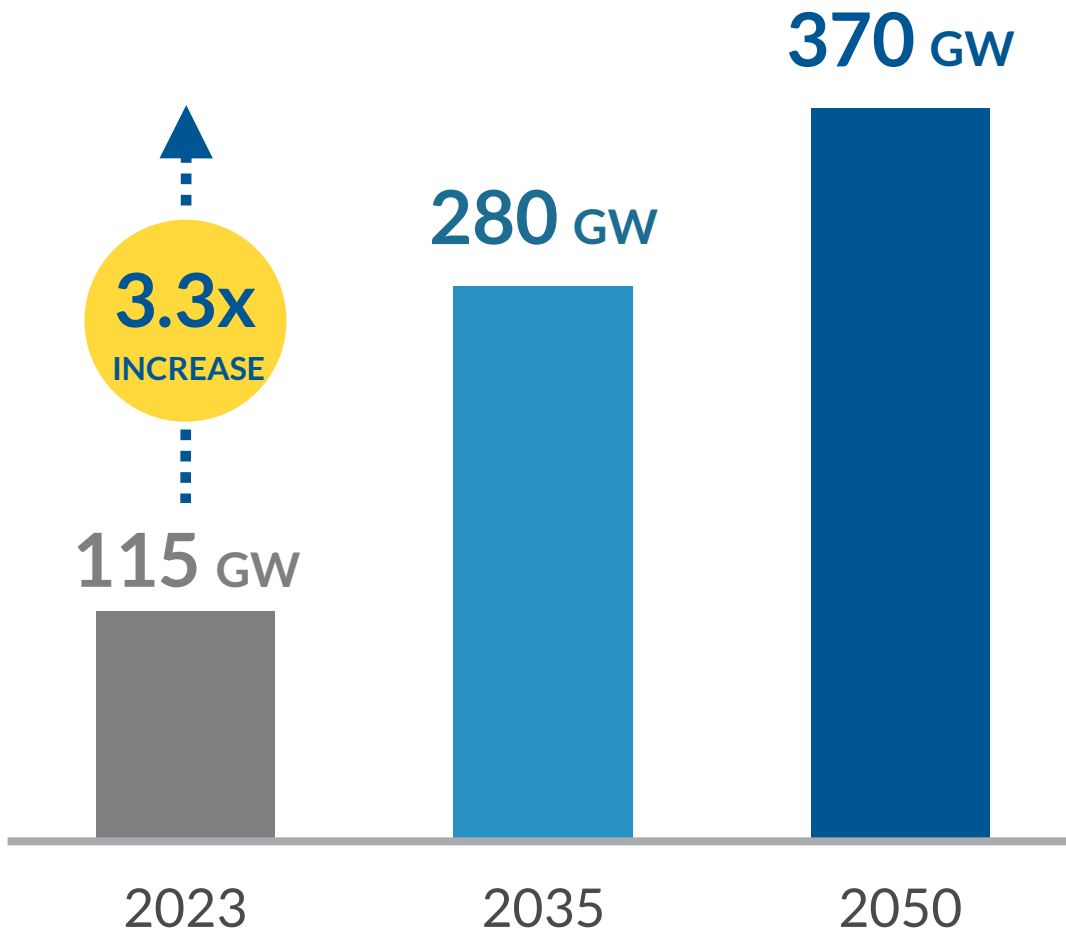
of Global energy is still derived from fossil fuels



*Net Zero can only be achieved by electrification with renewable energy*

# Net Zero can only be achieved by electrification

but....to achieve that, UK electricity capacity needs to **double** in the **next 10 years** and more than **treble** by 2050



Electrification of EV's & Heating driving the demand

# UK electrification to 2035 - The 3 challenges

## The Solar Challenge

Fossil fuels need to be replaced by renewable energy



**5x**

increase in  
Solar capacity

## The EV Challenge

Petrol & diesel vehicles need to be replaced by EVs



**23x**

increase in  
EV charge points

## The Grid Challenge

Required to connect solar & EV charging



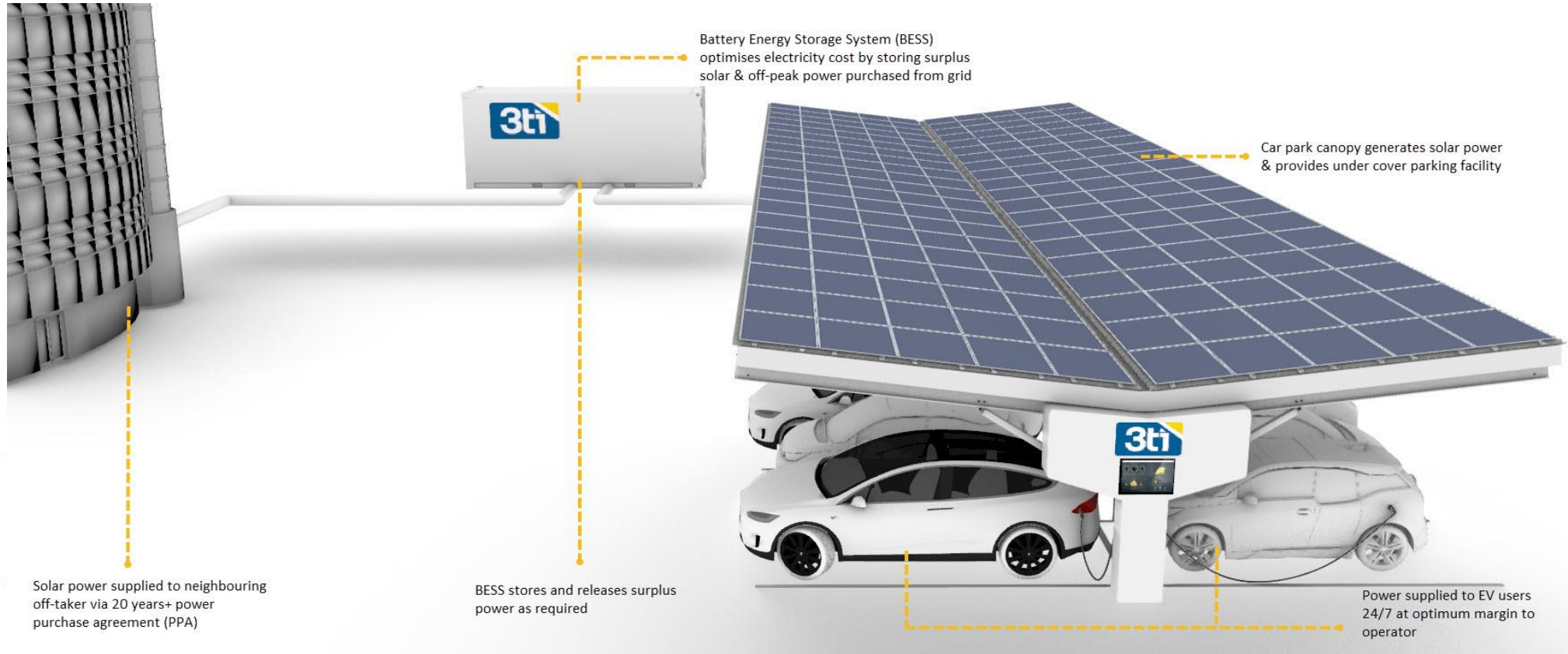
**£50bn**

increase in  
Grid upgrades

***BUT....the Grid Challenge needs new technologies***

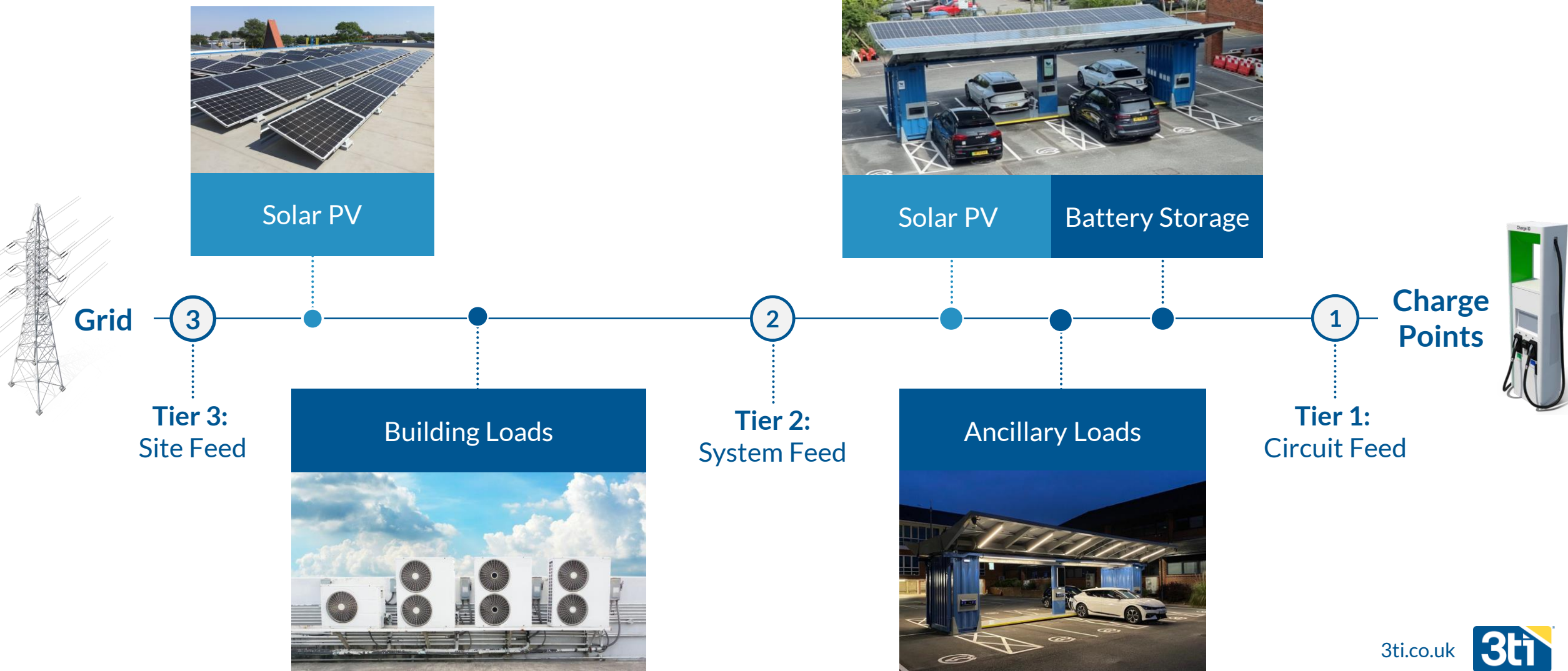
# 3ti - The solar car park company

We connect solar & batteries to grid supplies in destination & workplace car parks



# Smart Microgrids - Balancing on-site supply & demand

Smart Microgrids need Smart Controls





# Eastbourne District General Hospital NHS Trust



# Eastbourne District General Hospital - NHS Trust





# Eastbourne District General Hospital - NHS Trust



# Eastbourne District General Hospital - NHS Trust



# CAPEX or PPA?

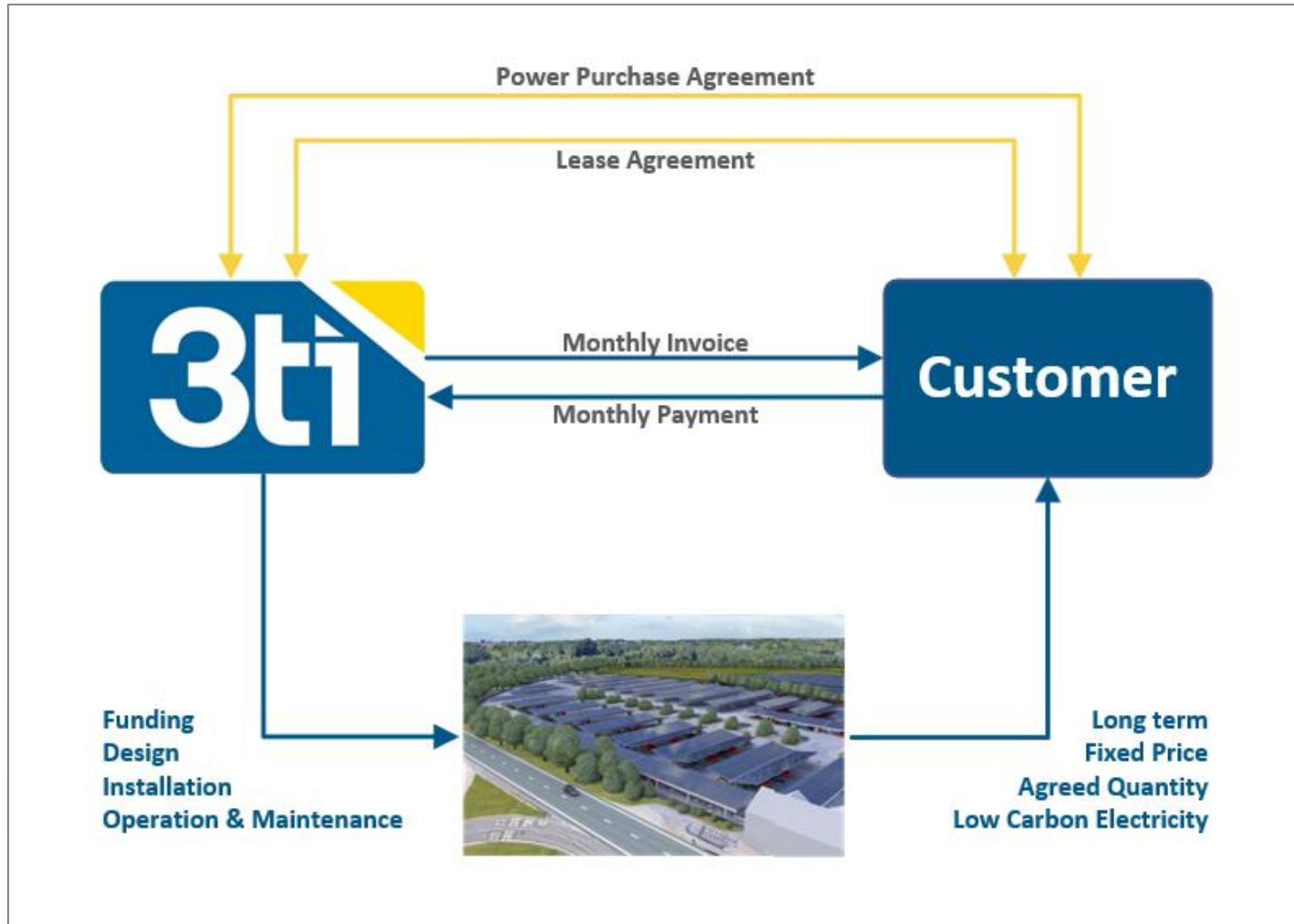
Solar Installation	Installed DC Power (kWp)	Annual Energy Production (MWh)	CO <sub>2</sub> e saving per year (Tonnes)	Indicative Capital Cost (£)	Indicative 25 Year Term PPA Price (p/kWh)
Rooftop	1,000	875	168	810,000	10-11
Car Park (300 Spaces)	1,000	875	168	1,300,000	15-17
Ground Mount	1,000	875	168	1,000,000	11-12

875MWh/yr @ 30p/kWh = £262,500 Current Electricity Price

875MWh/yr @ 15p/kWh = £131,250 PPA Electricity Price

Annual Saving = £131,250 / 300 Parking Spaces = £437.50 per Parking Space

# PPA commercial overview



# PPA's explained

## No upfront costs

We will fund your solar car park, so you can use your budget for other projects.

## Cheaper electricity costs

Green electricity at a discount to your current supplier.

## Optimised performance

3ti will monitor and maintain your system to ensure the solar panels are working at optimum levels.

## Electricity price hedging

PPA rates are indexed throughout the term, protecting against supplier price increases.

## Avoid business rate increases

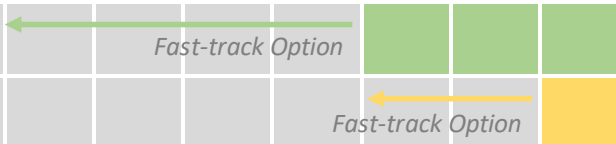
When using a PPA, the asset is owned by a third-party investor, so business rates for companies with a solar installation do not apply.

## No operation responsibilities

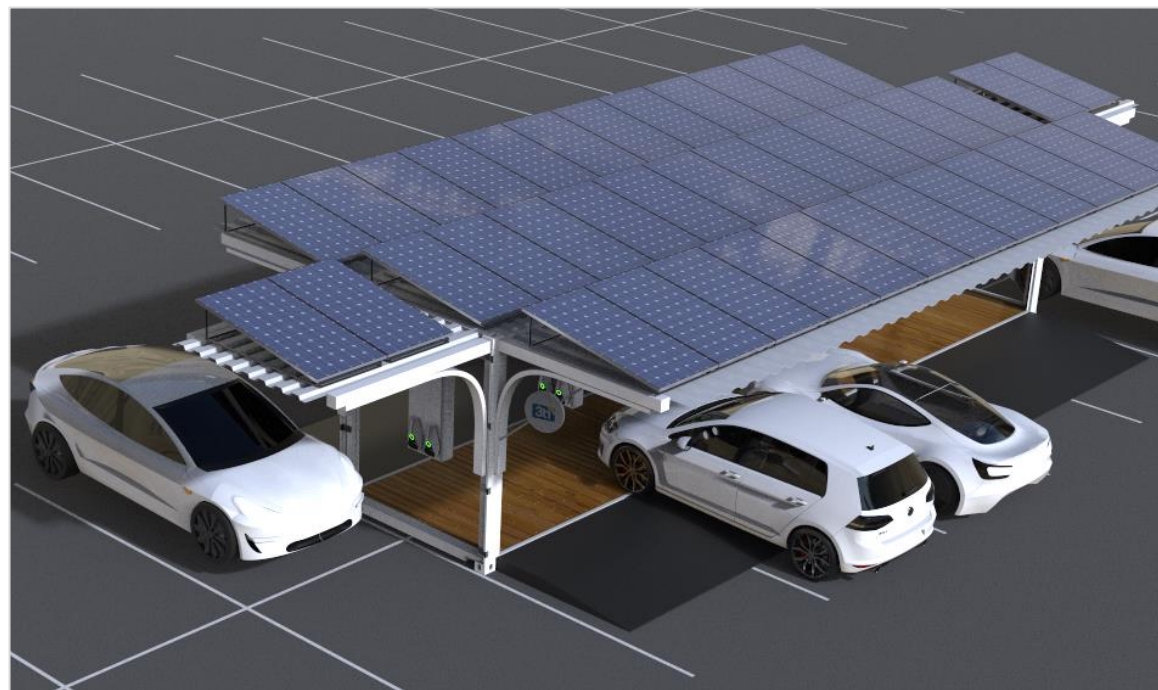
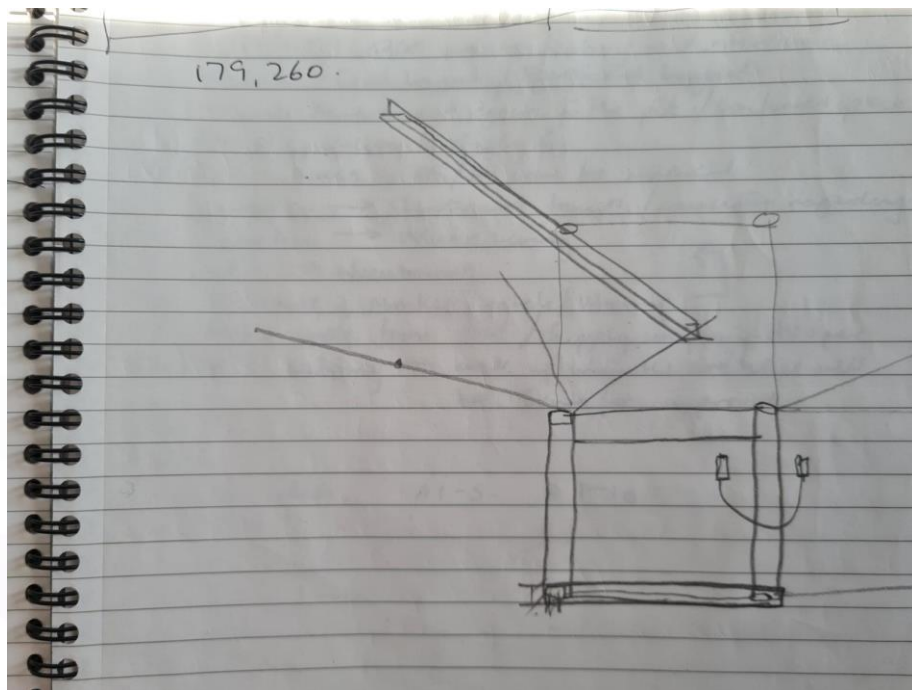
Focus on your business and leave the management of your solar car park to the experts.

# Indicative timeline

Month	Development & Pre-Construction Phase								Delivery Phase				Responsible	
	1	2	3	4	5	6	7	8	9	10	11	12	3ti	Customer
Initial Customer Meeting	█												✓	✓
Customer Supplied Project Information	█													✓
Desktop Study	█												✓	
Sign Pre-Construction Services Agreement		█												✓
Approvals & Permissions		█											✓	
Technical Site Visit & Surveys			█	█									✓	
Report					█								✓	
Project Scope & Phase Plan					█	█							✓	✓
Papilio3 FoC for 6 Months			█	█	█	█	█	█					✓	✓
Contracts						█	█						✓	✓
DNO & Planning Applications							█	█	█				✓	
Project Delivery & Commissioning									█	█	█	█	✓	
Operation & Maintenance												█	✓	



# Papilio3



# Papilio3

- Made in the UK from recycled shipping containers
- Deployed in 1 day
- No planning permission (*in most locations*)
- No new grid connection
- Visible commitment to net-zero targets





# Papilio3



- 12 EV charge points
- 3.5, 7, 11, 22 kW AC
- 30 – 150kW DC (Autumn 2024)
- 20 kWp solar panels
- 250 kWh battery storage
- Existing grid connection
- Winner of 5 major industry awards



# Papilio3

- Monthly rental agreement
- Customer set tariff
- 3ti back-office billing system
- App based , RFID or contactless payment
- Information & advertising screen options
- Customer branding & colour schemes



# Safe & Secure

- ChargeSafe approved
- CCTV fitted on each end
- Waterproof shelter
- Integrated LED lighting



# Papilio3 - Silverstone



# Partnerships and certifications

## Partners

We often team up with other leading industry organisations with shared values and experience that ensures a complete understanding of customer needs, to provide the highest levels of engineering expertise and deliver energy generating solar car parks, BESS and EV charging solutions.

- Innovative design and development
- High quality components
- Unparalleled service levels & project management
- Working as part of your inhouse team
- A combined 150 years of experience in renewable energy

## Certifications

- We are accredited by PAS91, Safe Contractor & CHAS
- We promote a positive, constructive & innovative culture, developing values, attitudes, activities & processes that deliver
- We always aim to exceed customer expectations
- ISO standards are audited and monitored by QMS International
  - ISO 9001 - Quality
  - ISO 14001 - Environmental
  - ISO 45001 - Health & Safety





The Solar Car Park Company

FOR FURTHER INFORMATION  
PLEASE CONTACT

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