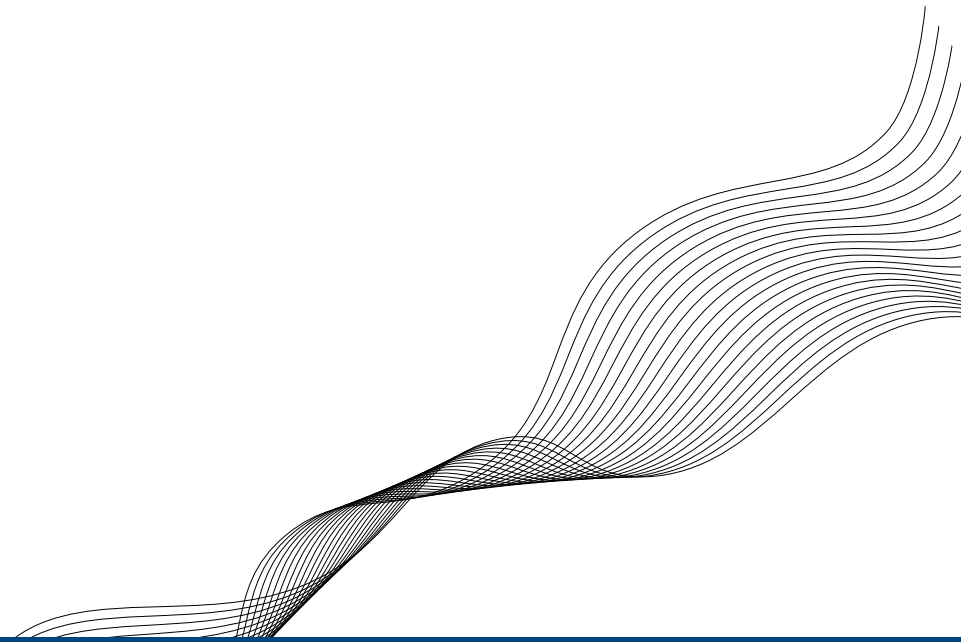


HBF National Technical Conference

Adam Swaine – Director of Sales
18th September 2024



- **Group update**
- **TriConnex Operational Areas**
- **Electricity Network Capacity**
- **Reform**
- **Support & Options**





HBF Technical Conference

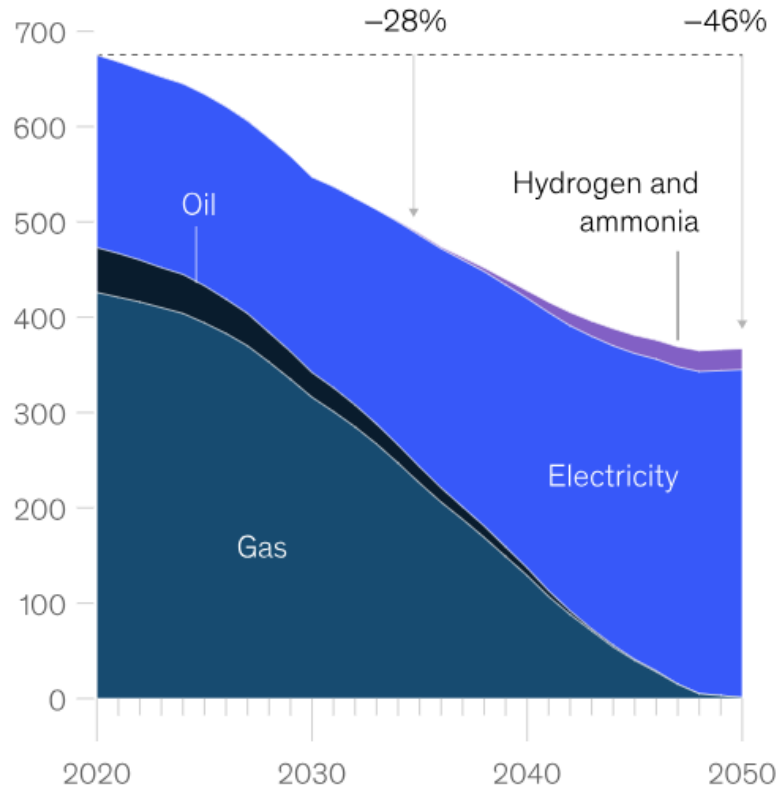
18th September 2024

Rhodri Williams
Technical & Sustainability Director
Home Builders Federation

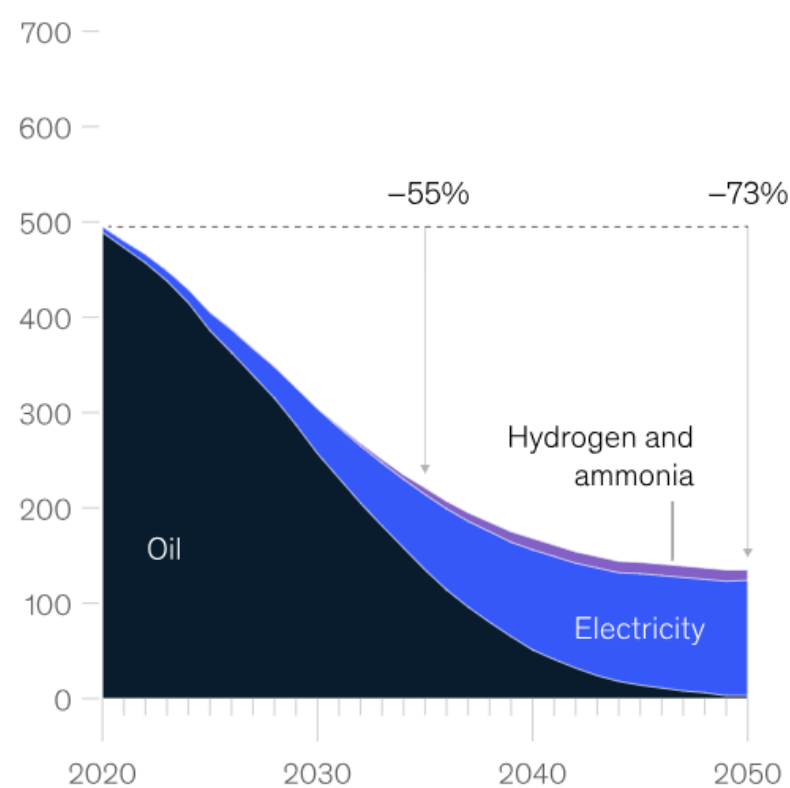


Facing the Future: Net Zero for UK Buildings & Transport

**Buildings' consumption of energy,
by source, terawatt-hour**

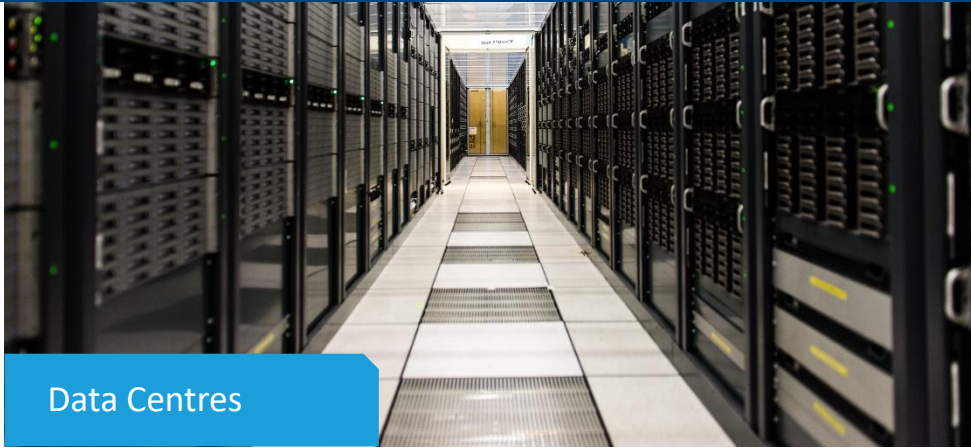


**Surface transport consumption of energy,
by source, terawatt-hour**



Everyone is Electrifying

Rapid growth in electrification is now happening across most sectors:



Data Centres



Battery Storage



Industrial
Electrification



Heat at Domestic
& Industrial Scale



Renewable
Energy



EV Charging
Infrastructure

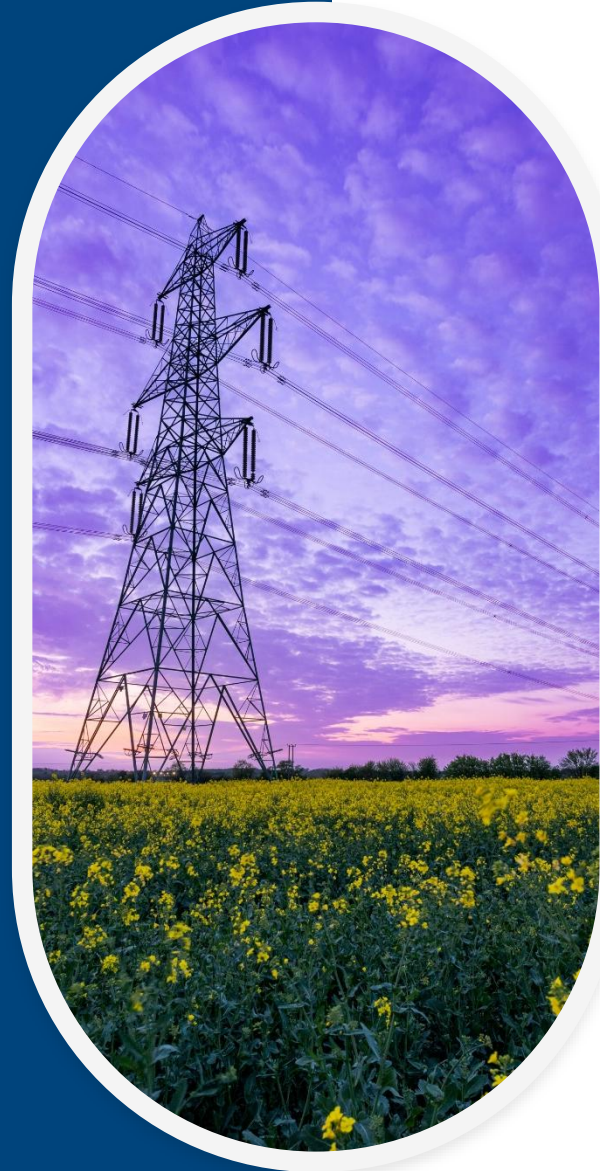


Public Transport
(Rail & Bus)

Where does this leave our **grid today?**

*"Today, just like in the 1950s, we
find ourselves with a network
that's constrained."*

National Grid CEO, via BBC News 26 March 2024



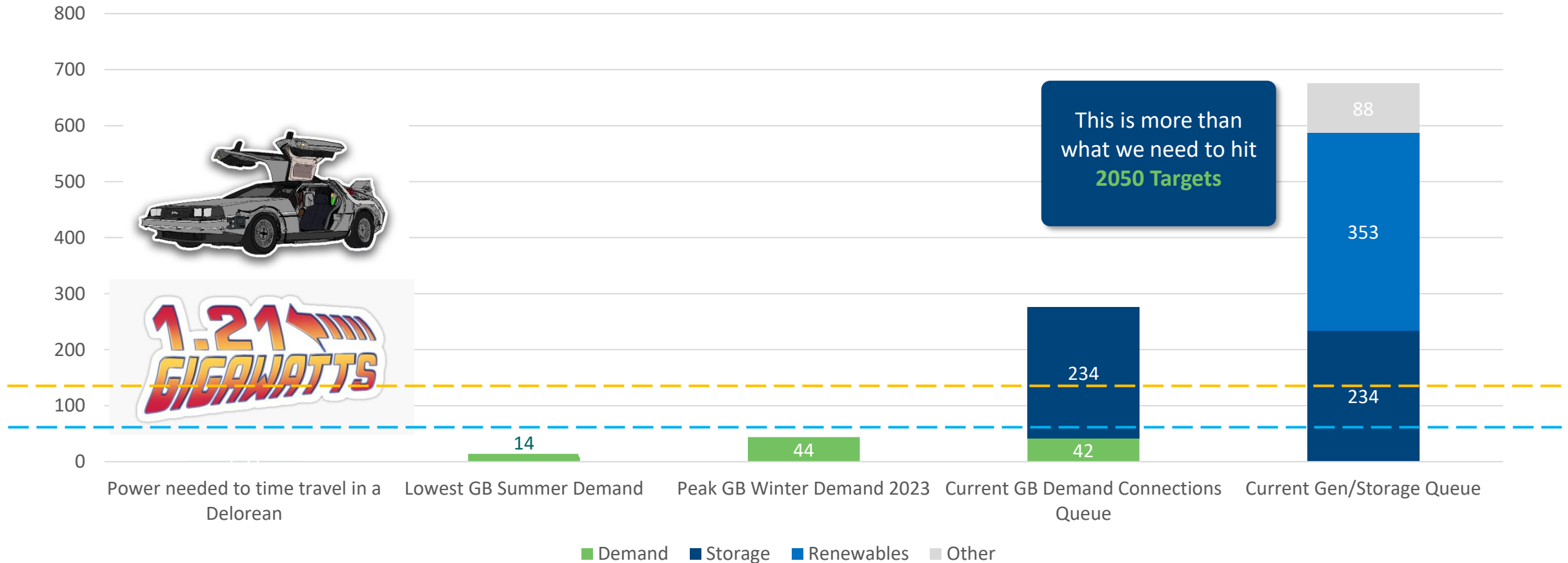
So, what do the demands on the grid look like today?



What does that look like on an adjusted scale...

Approx. Renewable capacity needed for 2050 Net Zero

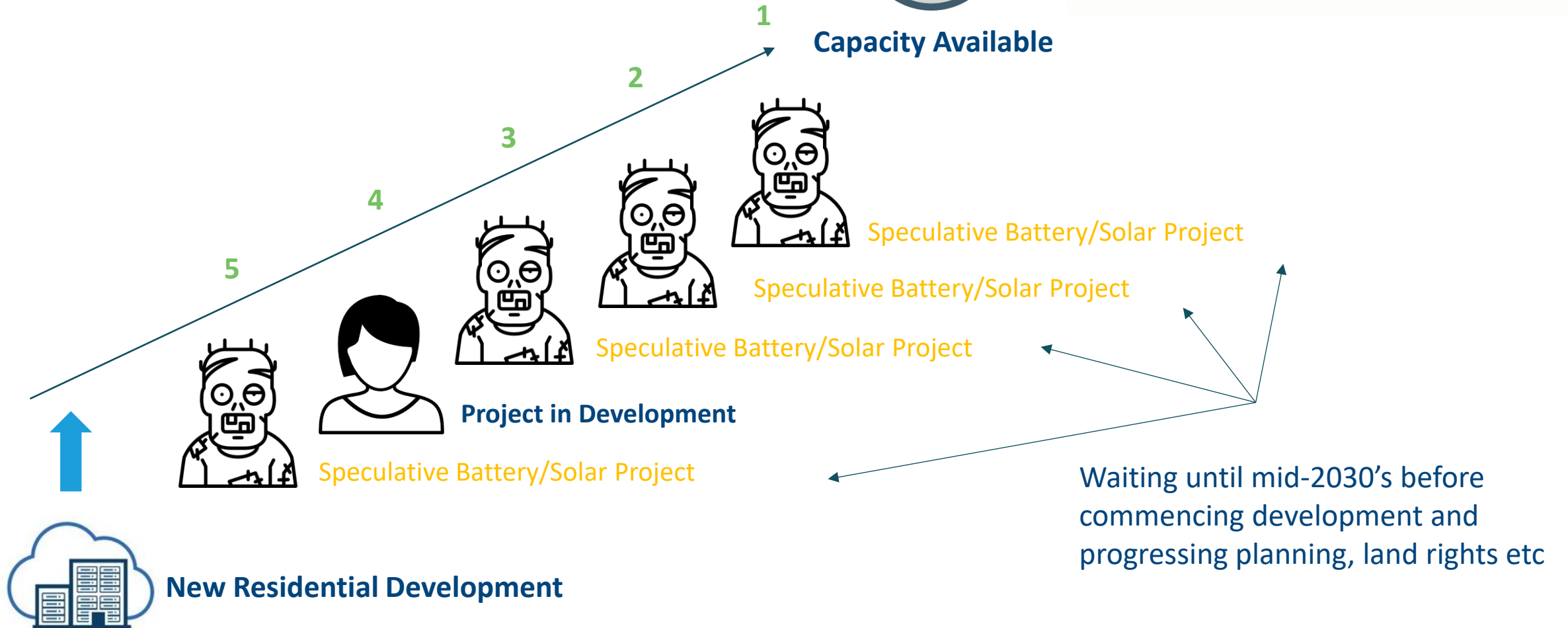
Approx. Storage capacity needed for 2050 Net zero



2050 Net Zero Peak Demand expected to be around 100GW

What does this capacity queue really look like?

This is what we regularly see at different substations around the UK in our capacity analysis

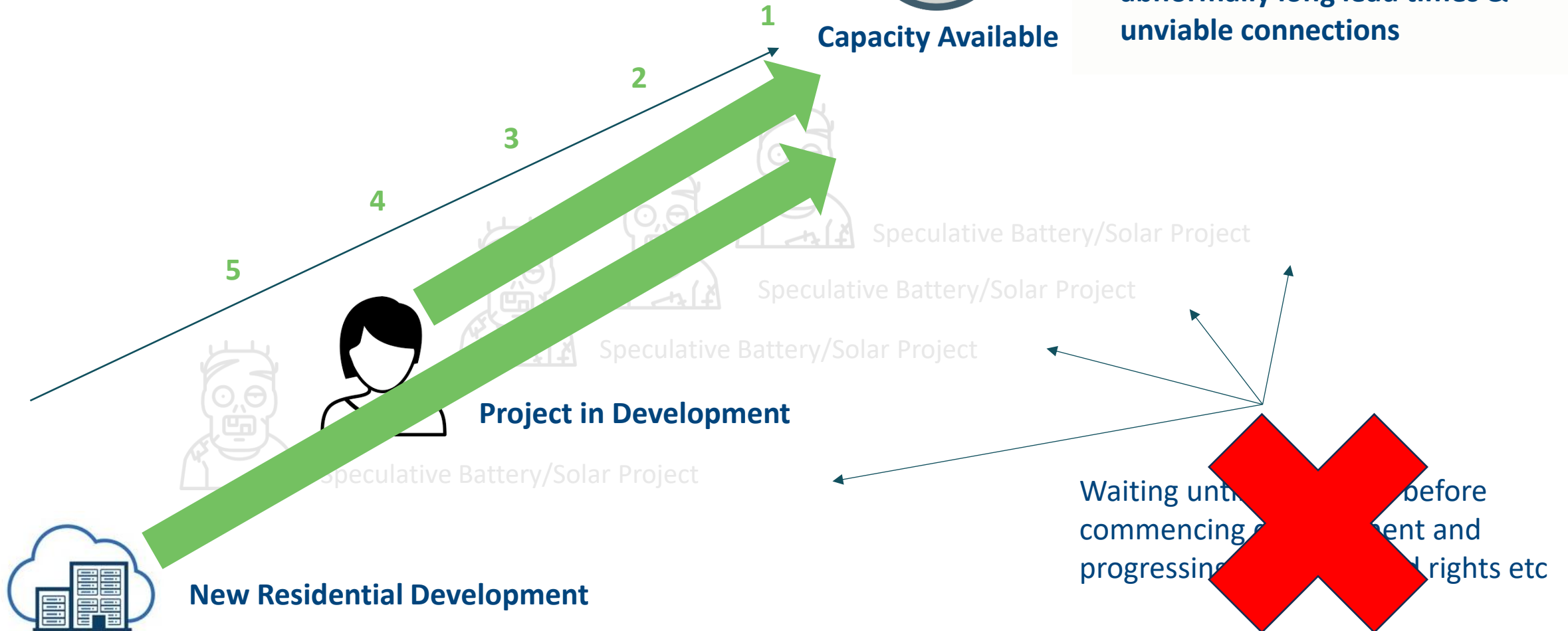


What does this capacity queue really look like?



Capacity Available

Without reform, most new high-capacity developments will have abnormally long lead times & unviable connections



Connection Reform Update

The Main Issue with the current proposal

Original
aim

First come, first
serve



First ready, first connect

Latest
Consultation
Proposal

(Closed 6th Aug 24)

First come, first
serve



First come, first serve*

**with land rights required
upfront & development
milestones added*



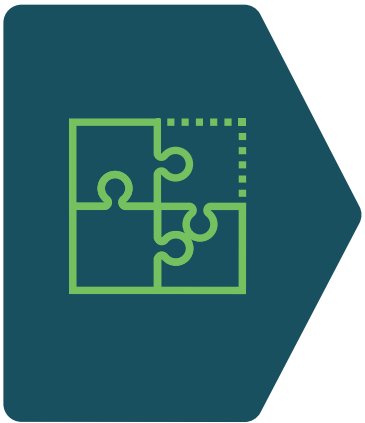
The zombies would be given
several more years

Latest Update: Ofgem have now tasked National Grid to look at adding Technical and/or Financial criteria to cut the queue further (expect more detail in Sept/Oct)



Grid

Assessment and POC application (pay fees !)



Design



Build



Connect



Adopt

Advanced Electricity
Networks



Connection Risks & Optimisation

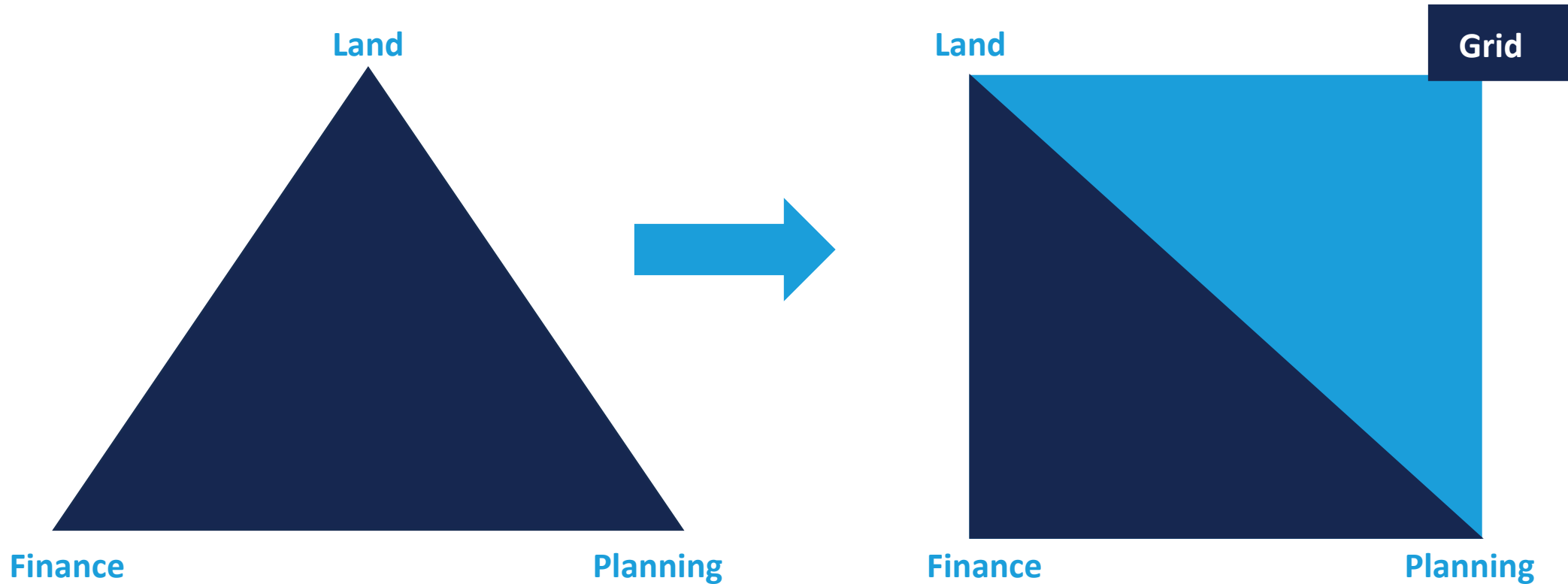
Mitigate Risks using Independent DNO (IDNO) solutions

Solve key risks, make progress on milestones and optimise connection timescale & cost by **engaging ICP/IDNO early**

Project Specific Benefits:

- Shorter lead times
- Innovative technical solutions to challenges
- Manage milestones
- Optimise land take on-site for grid infrastructure
- Ensure planning & consents are obtained correctly
- Optimise grid costs

The 'Project Development Triangle' **TRICONNEX** is now a Square



TRICONNEX

Connecting utilities on time

01376 332 680

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