

The Energy Projects Service

- 🌱 Renewable energy
- 💡 Smart technology & low carbon energy system
- 🌍 Energy efficiency investment | Invest to save
- 📄 Energy assessments and compliance



Solar Carports & Canopies

- Introducing NCC
- Meet the team
- Solar Carport case study – Ken Martin Leisure Centre
- Solar Carport case study – Harvey Hadden Leisure Centre
- Innovation
- The offer
- Next steps

Introducing NCC – The Energy Projects Team

- Delivered over 14MW of Solar PV in the last 3 years
- Renewable energy specialists.
- Sensible use of innovative technology delivering commercial returns.
- Energy investment programme management.
- Income generation and energy asset management.
- Leaders in the field - multiple industry award winners.
- Creating the future of energy generation and smart infrastructure.

Meet the Team

- Gordon Thomson – Director of Highways and Infrastructure
- Gordon.Thomson@nottinghamcity.gov.uk
- 0115 8763395

- Wayne Bexton – Head of Energy Projects
- Wayne.Bexton@nottinghamcity.gov.uk
- 0115 8764943

- Edward Gurney – Solar PV Manager
- Edward.Gurney@nottinghamcity.gov.uk
- 0115 8763430

- Razak Joomrally – Senior Energy Projects Officer
- Razak.Joomrally@nottinghamcity.gov.uk
- 0115 8763272

What have we done so far?

- Domestic 4,200 properties – Total of 12 MWp.
- 52 sites totaling 1.8 MWp.
- 2 large scale canopy sites – Largest publicly owned in the country and award winning.
- 2 sites utilizing batteries to increase benefit and for us to study further.
- Multiple award winners.



Ken Martin Leisure Centre

Case Study: 001

- ❑ Total kWp: 88.5
- ❑ Number of panels: 354
- ❑ Area: 400 m² coverage: 520
- ❑ Estimated generation: 710,000 kWh
- ❑ Carbon savings (tonnes): 376
- ❑ Percentage reduction in imported electricity: up to 35%



Harvey Hadden Sport Village

Case Study: 002

- ❑ Total kWp: 267
- ❑ Number of panels: 1163
- ❑ Area: 1600 m²
- ❑ Estimated generation: 220,000 kWh
- ❑ Carbon savings (tonnes): 77
- ❑ Percentage reduction in imported electricity: up to 40%



Leisure Centre images



Innovation – What we are doing

- Battery integrated Solar PV.
- Large scale batteries for grid services.
- Solar carports and canopies with or without e-vehicle chargers.
- Vehicle 2 Grid (V2G).
- Export limited Solar PV systems.
- Post FiT domestic PV with integrated batteries and grid services.
- Energy as a Service.
- Fuel cell trials.
- PPA.
- Procurement framework.

Lessons Learned

- Companies/Contractors cutting corners on public buildings to maximise their profits – lead to future maintenance issues
- Developed our own MCS accredited internal delivery and maintenance teams
- Cyclical assessments of building stock
- Finger on the pulse – fast moving tech industry
- Better investment than predicted – excellent generation

How can we help you/others?

- Open days of our innovative sites
- Power purchase agreement.
- OJEU compliant framework – access to market.
- Open and honest advice.
- Public Body – complete confidence that we will be here to honour service agreements.
- Vast industry experience and technical ability.
- Tailored service – what do you want to achieve and we can help you get there.



Questions?



Nottingham
City Council