



**Innovate UK**

Empowering communities to generate, manage and benefit from sustainable energy and boost their community.



**ATKearney**



**blueprint**



Slam Jam

**Stickyworld**





**Trent Basin**  
4.0 ★★★★★ - 4 reviews  
Housing Development



Directions



SAVE



NEARBY



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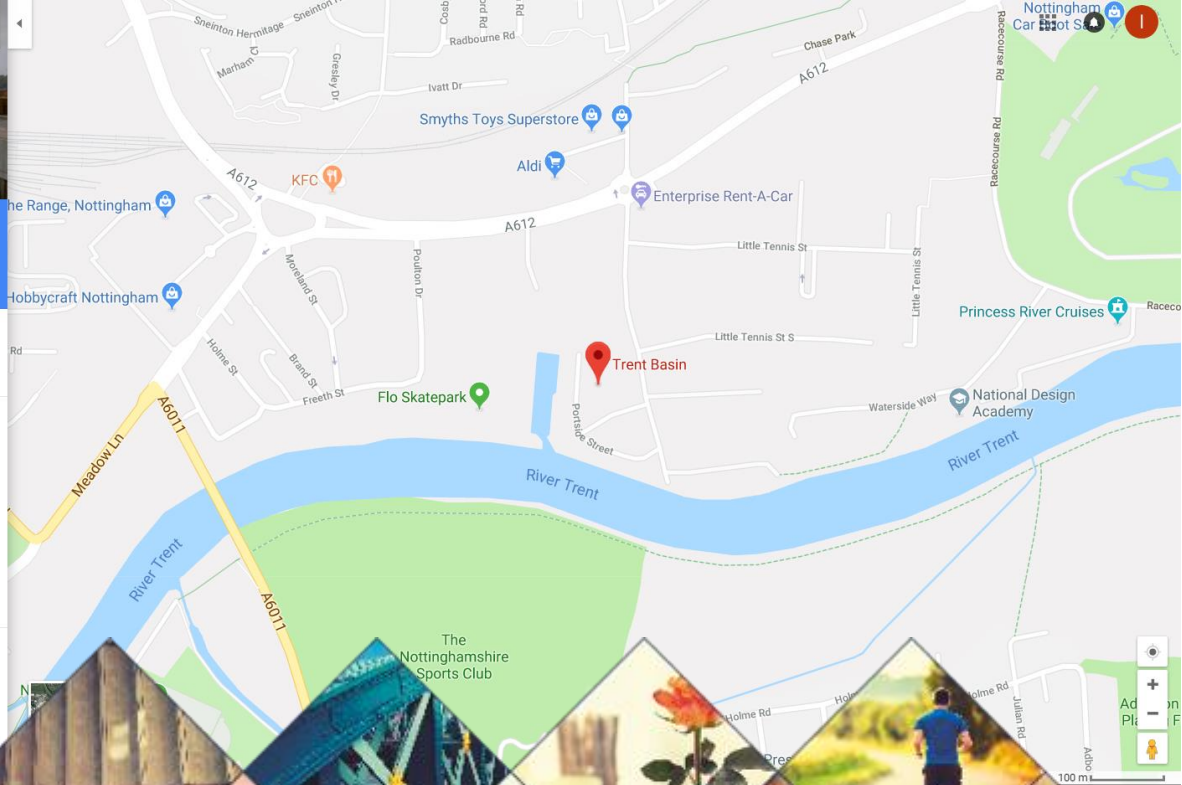
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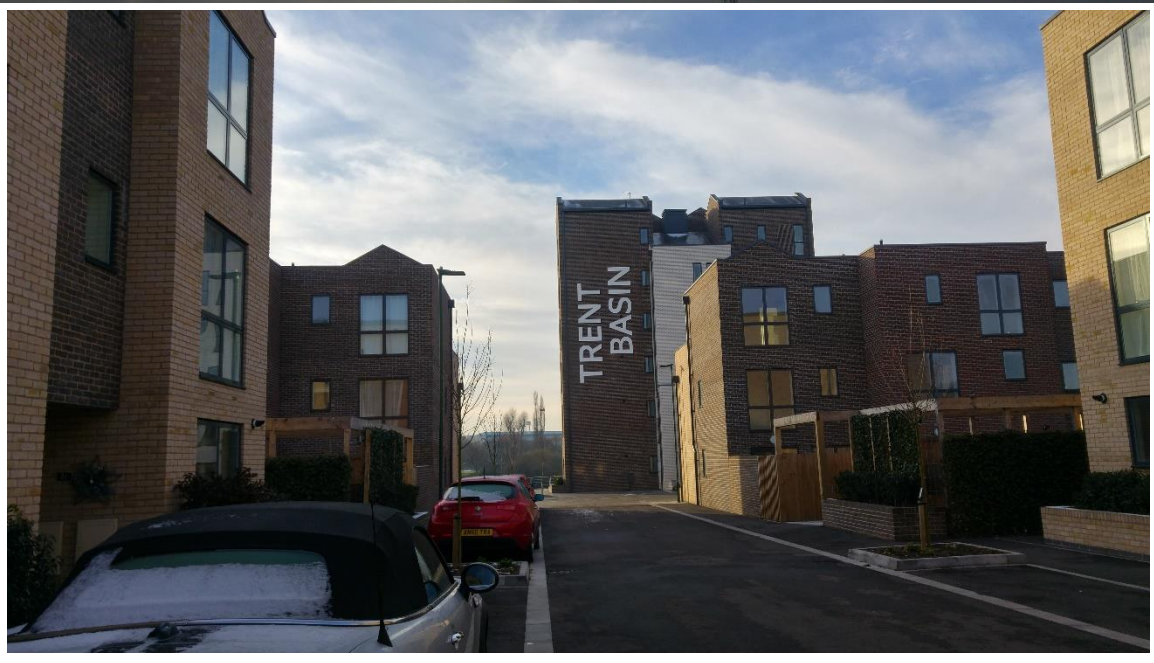
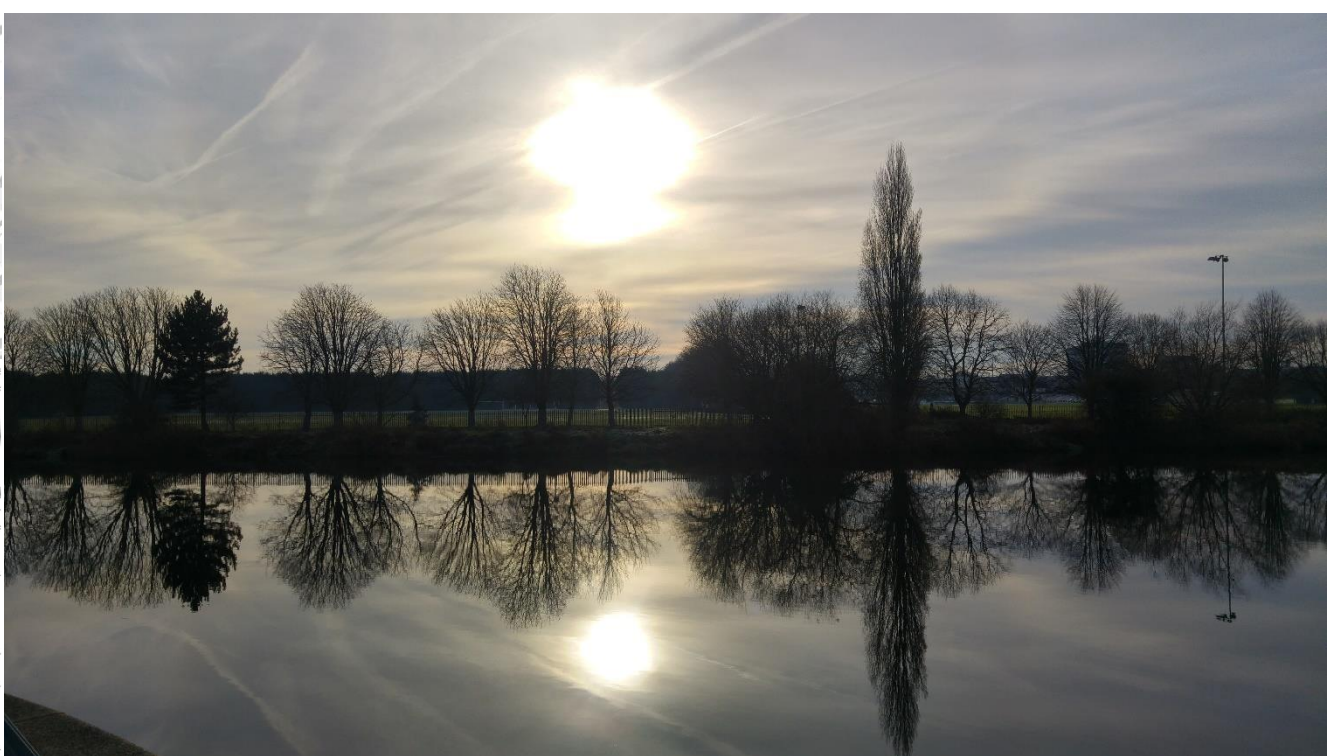


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**TRENT BASIN**

WATERSIDE



# Financing the Transition:

Harnessing UK Cities' Ambition for Clean Energy



# UK SMART CITIES INDEX 2017

Assessment of Strategy and Execution for the UK's Leading Smart Cities

23 October 2017



News - Couple leaves Norway behind for cycling near the Basin

News

# Couple leaves Norway behind for cycling near the Basin

By WBWire - Wednesday, November 29, 2017 8:47 pm

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Ground-breaking technology at Trent Basin helps spearhead council's regeneration plans

September 20, 2017

**CIBSE JOURNAL**

NEWS CIBSE NEWS TECHNICAL CPD JOBS CASE

## Battery packs a punch - Europe's largest community energy battery

Europe's largest community energy battery installation at the Trent Basin housing development in Nottingham will be a demonstrator project for the UK. Andy Pearson explains the concept and the challenges behind it

Posted in January 2018



## Project SCENE

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# 1) Generating local renewable energy



# 2) Optimised Storage & Distribution



# 3) Supporting smart use & increased community & sustainability benefits

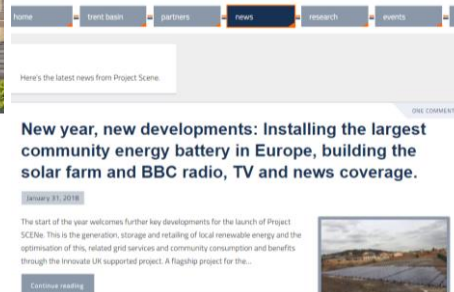
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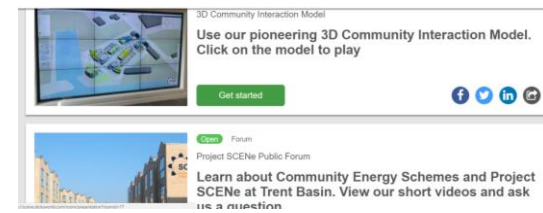
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# Latest timeline

- Solar Farm installed – Jan 2018
- Battery in place – Jan 2018
- BBC TV & others – Jan 2018
- Testing the battery – Feb 2018
- Energising the battery – March 2018
- System connection to the grid – April 2018
- Ongoing R&D with community for pioneering demand & supply management & benefits.



# SMARTKLUB

Empowering Cities Together

**SmartKlub:**

Energy business model innovation and community services

**New Value:**

Improve asset utilisation at community scale

Arbitrage between heat/power and grid/self-consumption

Reduce service costs & increase behaviour change



# Pragmatism rules the customer offer

- No lock in for customers to private wires and supports Smart Grid DSO transition
- Customers free **choose** their own supplier
- No Supply licence cost to ESCO
- Energy Centre **simplicity** for heat and power serving homes and grid
- **Income increases** as we optimise system and can afford to reduce pragmatism





# Bold vision for the ESCO component

“To enable communities to embrace renewables to lower energy costs & CO2 without the hassle”

## **For the community:**

- No – expertise, finance, installation, O&M or admin
- Yet – no supplier lock in, can steer ESCO and get returns

## **For the developer:**

- No – expertise finance or disincentive to homebuyer
- Yet - installation via main contractor under NHBC



**SmartKlub's role: to innovate & manage the ESCO**

# The ESCO offer to residents is compelling

”In exchange for lending us your estate we generate green power & heat while discounting your energy”

- **Advantages:** economies of scale, higher returns, best practice, guarantees
- **Community say:** target setting, scope steering, surplus share, investment option
- **Journey:** extensible to many measures e.g. EVs, Smart Homes, IoT...
- **Customer service:** via a 24x7 app. Minimum cost with Maximum quality



Business model, service platform & engagement ensures the ESCO's affordable and meets local needs

# ESCO evolves with community aspirations

“Members steer its future, invest and expand its scope, while protecting investors and residents”

Each ESCO grows with residents only taking risks and responsibilities they want

Return structure incentivise residential priorities:

- Residents Community – variable surplus share
- Local investors (inc. resident options) - fixed return
- Underwriting investor - fixed return



**Communities can become equity investors and have rights to buy out the underwriting investor**

# Q&As

Get in touch & check out our blogs, forums, 3D model, videos & latest news & events, & share your ideas.



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