



# **Project SCENe at Trent Basin**

### Charles Bradshaw-Smith, CEO SmartKlub Local Supply – York - June 2017



### **Project SCENe at Trent Basin**







#### Vision:

To transform how communities power themselves Mission:

Switching cities onto collaborative ways of achieving their energy needs, with best partners, for social good





#### SmartKlub is changing Business Models all over UK

#### **Current innovations:**

- Developing CAPE platform in Milton Keynes
- Supply chain co-opetition in Leeds
- Supporting ICP, UK-GBC and Smart Cities Institute
- Recently opened SmartKlub Scotland





### **Project SCENe: Sustainable Community Energy Networks**

- Blank sheet of paper: Nottingham's Trent Basin
- Collaboration partners with expertise in the energy supply chain
- Novel consumer engagement tools
- Test business models for use by any developer
- Energy system and ESCO relevant to Housing Association retrofit
- Accelerates adoption of Community Energy Systems





### **Project SCENe: Sustainable Community Energy Networks**

- Asset and customer management via an Energy Services Company (ESCo)
- Benefits are reduced cost and CO2 via capital efficient use of renewables
- Key innovation: hassle free for developer/consumers with financial stability
- Or put another way:

"how to do Eco pragmatically"





## **Community & buyer engagement essential**

#### Market issue: ECO v mainstream development



#### Project issue: R&D v commercial targets



## Project SCENe orientation numbers

- Phase 1 45 homes built and occupied PV panels to be retrofitted Q4 2017
- Phase 2 35 in planning PV plus ground source heat system Q1 2018
- Phase 3/4/5 further c300 homes PV and possibly water source heat
- 2.1MWh battery with 500kW power
- 428kWp of PV including solar farm
- 80 homes with in-home monitoring
- Community centre portal (picture)
- Current project runs to June 2018





## Pragmatism rules all aspects of the project

- No lock in for customers to private wires
- Customers free choose their own supplier
- Energy Centre simplicity
- Income increases as we optimise system









# **Data Monitoring - Home**





## Bold vision for the ESCO component

"To enable community housing to embrace renewables to lower energy costs & carbon footprint without the hassle for the homeowner or developer"

- For the community this means:
  - No finance, installation, O&M or admin
  - Yet flexibility to join, have a say, get returns
- For the developer this means:
  - No 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 roofs, walls,

carports & communal ground space, we flood the

area with green electrons while discounting your

### energy costs"

- Advantages: scale, higher returns, best practice, guarantees
- Community say: target setting, scope steering, surplus share, investment
- Journey: extensible to many measures e.g. EVs
- Customer service via a 24x7 app. Min cost, Max quality

Innovative business model and service platform ensures the ESCO's affordable and meets local needs

## Each ESCO can evolve with its community

"As each community gains confidence in the ESCO's potential, members can shape its direction, invest or expand its scope, all within clear boundaries to protect the investors and residents"

The model evolves with residents only taking responsibility they want:

- Underwriter investor fixed return
- Local investors fixed return
- Resident Community no equity, just surplus share



#### Nottingham Trent Basin ESCO goes live in Q4 2017



## Thank you for listening. Any Questions?

#### Check out SCENe blogs:

#### www.projectscene.uk









**SMARTKLUB** Empowering Cities Together

**Charles Bradshaw-Smith** 

e: <a href="mailto:charlesbs@smartklub.org">charlesbs@smartklub.org</a>

m: +44 7836 647585

In: CharlesBS1

t : <u>@SmartKlubOrg</u>

w: www.smartklub.org

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