



# **Community Led Energy Action**

## Sara Grimes, Head of Community Business Development Bath & West Community Energy



## **Our Community Ownership Model**





## Clean Local Energy

We build and operate renewable energy projects for and on behalf of communities across our local area.



## Member Led

We raise funds though local people investing money in BWCE, becoming members, receiving a fair return and having a democratic say in how we operate.



## For Community Benefit

Surplus is distributed via our BWCE Fund to community projects that reduce carbon emissions and alleviate fuel poverty.



# Since 2010 BWCE has raised £22.5 million to build 13.35 MW of Community Renewables



## Enough capacity to match the annual demand from 4,500 typical homes

## **Ground mount solar**

• 5 ground mount systems ranging from 250kW to 5MW

## Roof top solar & hydro

• 28 roof top systems on schools and community buildings ranging from 10 to 260kW

## Hydro

• 1 small modern water wheel

## Wind turbines

• Currently seeking sites



## **Our Project Pipeline**



|   | KW    | Capital Cost     |  |  |  |  |  |
|---|-------|------------------|--|--|--|--|--|
| Built out in 2022 – rooftop solar         |       |                  |  |  |  |  |  |
| Lansdown Golf Club                        | 41    | £33,825          |  |  |  |  |  |
| Ralph Allen School 3                      | 25    | £19,250          |  |  |  |  |  |
| Writhlington School                       | 170   | £114,750         |  |  |  |  |  |
| Hayesfield School                         | 91    | £87,155          |  |  |  |  |  |
| Somervale School                          | 114   | £93 <b>,</b> 138 |  |  |  |  |  |
| Beechen Cliff School                      | 262   | £191,260         |  |  |  |  |  |
| Norton Hill School                        | 160   | £124,640         |  |  |  |  |  |
| Three Ways School                         | 129   | £92 <b>,</b> 500 |  |  |  |  |  |
| Corsham School 2                          | 33    | £26,004          |  |  |  |  |  |
| Built out in 2023 to date – rooftop solar |       |                  |  |  |  |  |  |
| St Augustine's College                    | 70    | £56 <b>,</b> 000 |  |  |  |  |  |
| St Marks School                           | 52    | £46,540          |  |  |  |  |  |
| St Johns School                           | 41    | £39 <b>,</b> 483 |  |  |  |  |  |
| Total                                     | 1,188 | £924,545         |  |  |  |  |  |



## **Our Project Pipeline**



|                                   | KW       | <b>Capital Cost</b>                         |   | KW     | Capital Cost |  |
|-----------------------------------|----------|---|---|--------|--------------|--|
| Built out in 2022 – rooftop solar |          | Under development with construction planned |   |        |              |  |
| Lansdown Golf Club                | 41       | £33,825                                     | over next 12 months                         |        |              |  |
| Ralph Allen School 3              | 25       | £19,250                                     | Schools & community (9<br>sites)            | 1,156  | £885,683     |  |
| Writhlington School               | 170      | £114,750                                    | Field solar (1 sites)                       | 1,130  | £920,950     |  |
| Hayesfield School                 | 91       | £87,155                                     | Sub Total                                   | 2,286  | £1,806,633   |  |
| Somervale School                  | 114      | £93,138                                     |   |        |              |  |
| Beechen Cliff School              | 262      | £191,260                                    |   | KW     | Capital Cost |  |
| Norton Hill School                | 160      | £124,640                                    | Under development with construction planned |        |              |  |
| Three Ways School                 | 129      | £92,500                                     | over next 12-24 months                      |        |              |  |
| Corsham School 2                  | 33       | £26.004                                     | Higher Education (1 site)                   | 804    | £571,502     |  |
| Built out in 2022 to date - roo   | ofton so | lar   | Businesses (3 sites) 180 £131,860           |        |              |  |
| CL Australia de Celleste          |          |   | Field solar (3 sites)                       | 13,000 | £9,445,000   |  |
| St Augustine's College            | 70       | £56,000                                     | Sub Total                                   | 13.984 | £10.148.362  |  |
| St Marks School                   | 52       | £46,540                                     | Total                                       | 16 270 | f11 05/ 005  |  |
| St Johns School                   | 41       | £39,483                                     |   | 10,270 |              |  |
| Total                             | 1,188    | £924,545                                    | Developed ethical site selection guidelines |        |              |  |

## **Two Development Paths for Larger Projects**



#### **BWCE Led**

- E.g. Fairy Hill Solar
- Near Compton Dando
- Planning soon to be submitted
- 2.1 MW on 4.5 acres
- Facing some grid constraints



## **Shared Ownership - Developer Led**

- E.g. Forest Gate Solar
- Developed by Eden Renewables
- Near Chippenham
- Planning approved
- 10MW to be shared with North Wilts Community Solar out of 50MW site
- Was more common than is now need a 'Community Right to Buy'

## **Business Plan Goals**



#### Potential Renewable Electricity Capacity Growth to 2026 (MW)



#### **High Impact Scenario**

- 5MW on site renewables (50-100 solar roof top schemes);
- 6MW wind turbines (3-12 wind turbines);
- 15MW ground mount solar (45-60 acres)
- matching demand from 17% of local households

#### **Medium Impact Scenario**

- 4MW on site renewables (40-80 solar roof top schemes)
- 2MW wind turbines (1-4 turbines)
- 10MW ground mount solar (30-40 acres)
- matching demand from 10% of local households

#### Low Impact Scenario

- 2.5MW on site renewables (25-50 solar roof top schemes)
- matching demand from 5.5% of local households



## Expanding our work – household energy



## **Energy Demand Management**

- Solar Streets (completed)
- Flex Community (current)
- Future?



## Home Energy Efficiency

- Retrofitting Service
- Green Open Homes B&NES



## **Growing the Sector**

#### Labour's Local Power Plan offers ...

- £1 billion/yr for community and LA action on renewable energy
- Plus commitments around grid and planning

## That could create the potential for ...

- Growing energy coops of a similar size as BWCE across every LA in the UK
- Building out over 8GW of new renewable energy capacity across
  20,000 solar and wind energy projects
- Creating thousands of jobs plus £millions of profit that can be recycled back into local communities



## ₹£

#### MAKE BRITAIN A CLEAN ENERGY SUPERPOWER

TO CUT BILLS, CREATE JOBS AND DELIVER SECURITY WITH CHEAPER, ZERO-CARBON ELECTRICITY BY 2030, ACCELERATING TO NET ZERO



*<b>RLabour* 

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#### **ANY QUESTIONS?**

#### **Contact Details**

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