

Welsh Water

The energy market is changing quickly and becoming increasingly more decentralised.

How are we changing our approach?





In the medium term we are adapting the way we

**get our
power**

**build our
own
generation**

**manage
our power**

**efficient
and
smarter**

**build our
teams**

**flexible and
diverse**

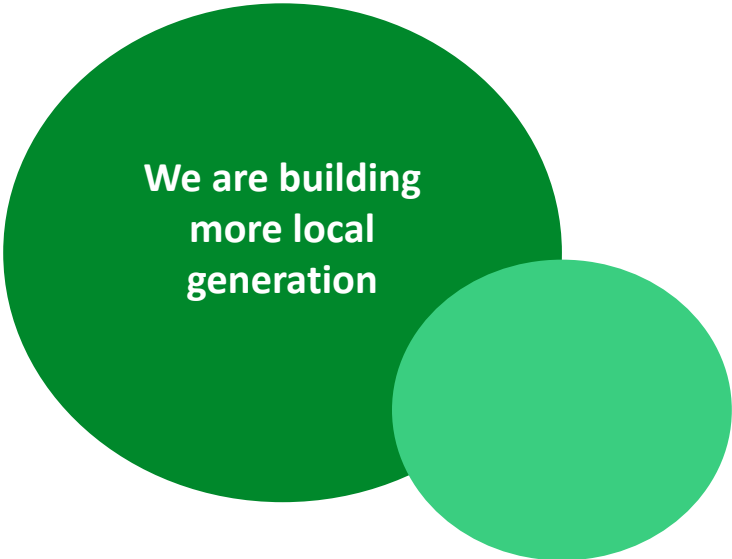


And longer term...



- Energy neutral business by 2050
- Expand renewable energy portfolio
- Energy storage facilities
- Maximise benefits from bio-resources

Promoting a circular economy & combatting climate change



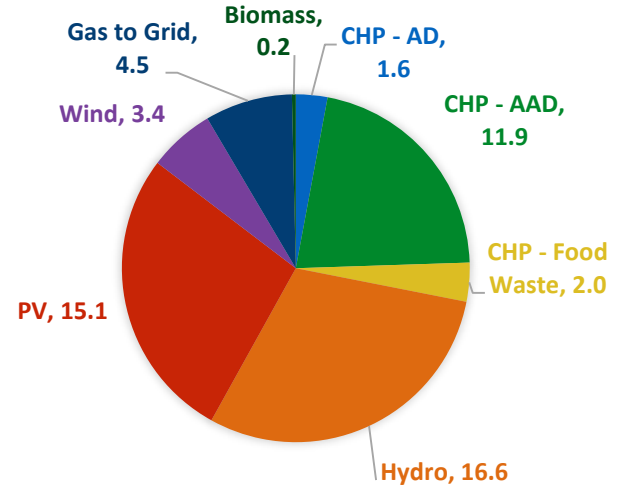
**We are building
more local
generation**



Our site usage is increasingly being met by local assets

- buy 100% green energy from our supplier
- 23% own generation across 63 energy assets
- target to reach 30% own generation by 2020
- 150 live energy efficiency projects
- power consumption of ~460 GWh per year

TOTAL INSTALLED CAPACITY (MW) - 19/20





What do we use energy for ...

- 27,000km of water mains
- 30,000km of sewers
- 800+ sewage treatment works
- 63 water treatment works
- £26 billion asset replacement value

Pumping

75%

Aeration

15%





We are building smarter, more flexible local supply sources

private wire
connections
with third
parties

Developing
demand side
response
capability

match our
load profile
through
technology
diversification

Investing in
new on site
generation

Build
resilience
from grid
outage



**We are
managing
demand locally**



We need to now manage these assets more efficiently

“Localising” the data and the ownership

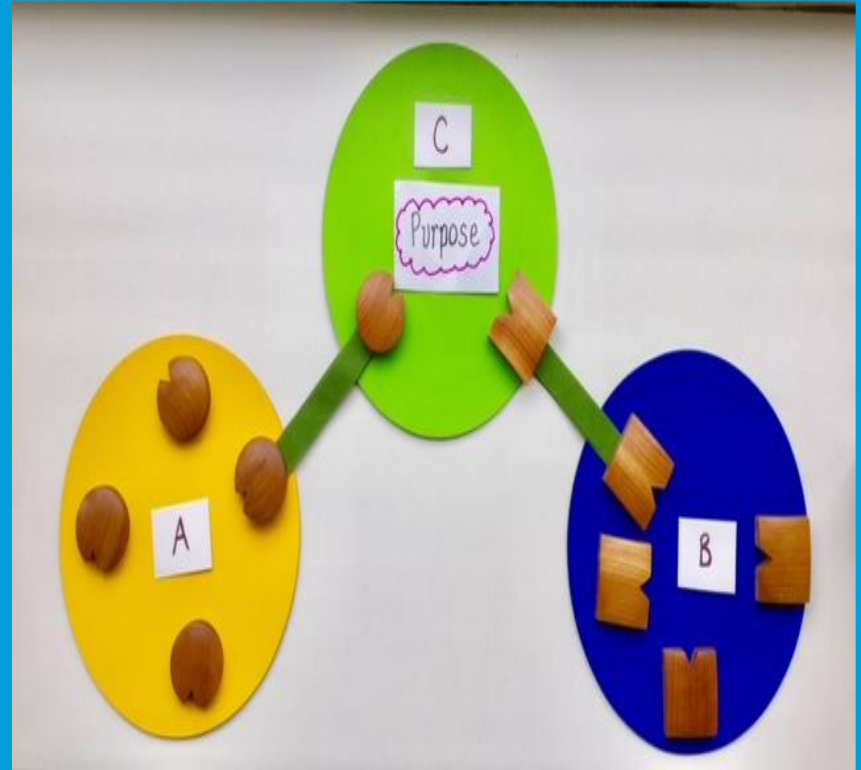




**I am challenging
our thoughts on an
effective team**

With the market changing we need our teams to be more fluid in how they engage.

Create virtual teams through a common purpose rather than a rigid structure.



A Systemic Approach...

...Connects teams to their **PURPOSE**
so they know their **PLACE**
which creates a deep sense of **BELONGING**
to the system as a whole.



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Rupert Sheldrake

Consider how in nature groups of individuals subconsciously form and reform listening to a deeper connection.





To conclude

**Building our
own local
generation**

**Being smarter
and more
conscious about
how we manage
power**

**Creating
flexible
diverse
teams**