

SP Energy Networks  
RAdAR Working Group  
Wednesday 9<sup>th</sup> February 2022



Thank you for your time today

# SP Energy Networks RAdAR Working Group Wednesday 9<sup>th</sup> February 2022



## Agenda

*Thank you for taking the time to attend today.*

*We value your opinions, and we are keen to generate an open session with opportunities to hear your feedback.*

**This session will be recorded**

14:00 – Welcome, Housekeeping and Safety Contact

14:05 – Connections Transformation Update

14:20 - Land & Planning Improvement Proposal

14:40 - Minor Amendments Process

15:00 – New Design Approval Guidance

15:20 – Feedback Session for additional requirements

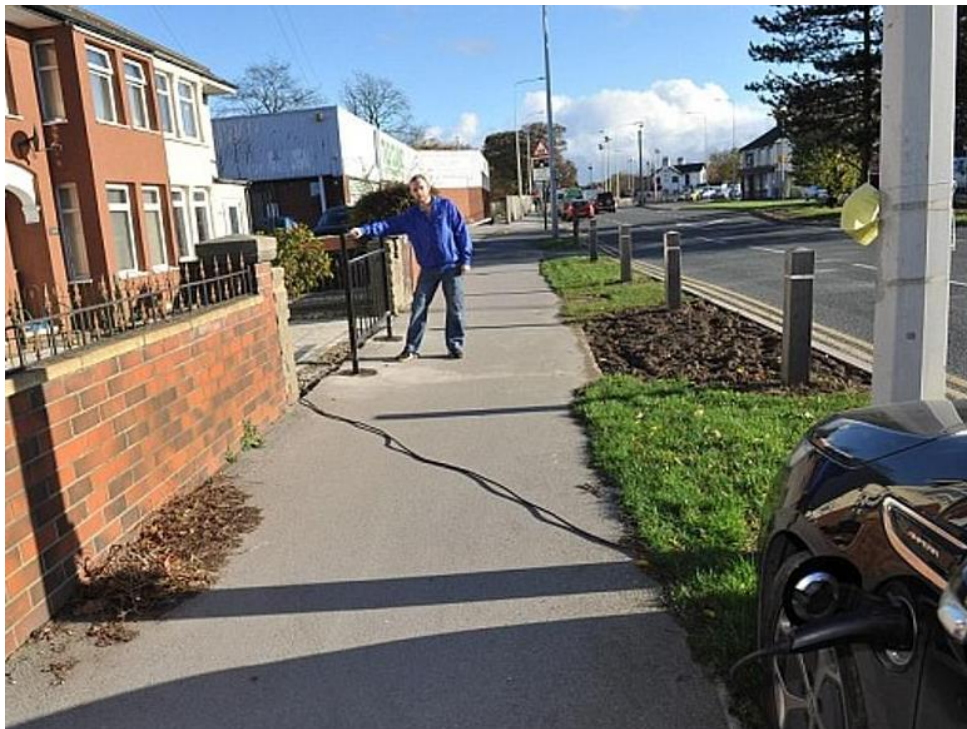
15:30 – Close

## SPEN attendees today:

- ▶ Derek Jessamine – Head of Planning & Design – Lanarkshire
- ▶ Neil Woodcock- Head of Planning & Design- Merseyside
- ▶ Paul Thomas – Head of Delivery- Merseyside
- ▶ Lesley Tait – SPD Commercial & Performance Analyst
- ▶ Suzy Killin – Land Rights Manager
- ▶ Louise Taylor – SP Manweb Customer Account Manager
- ▶ Stuart Walker – SP Distribution Customer Account Manager
- ▶ Rachel Shorney – SP Manweb Stakeholder Engagement Manager

# Safety Contact - Highway Code changes

**Electric car owners should take provisions to not trip pedestrians with their charging cables**



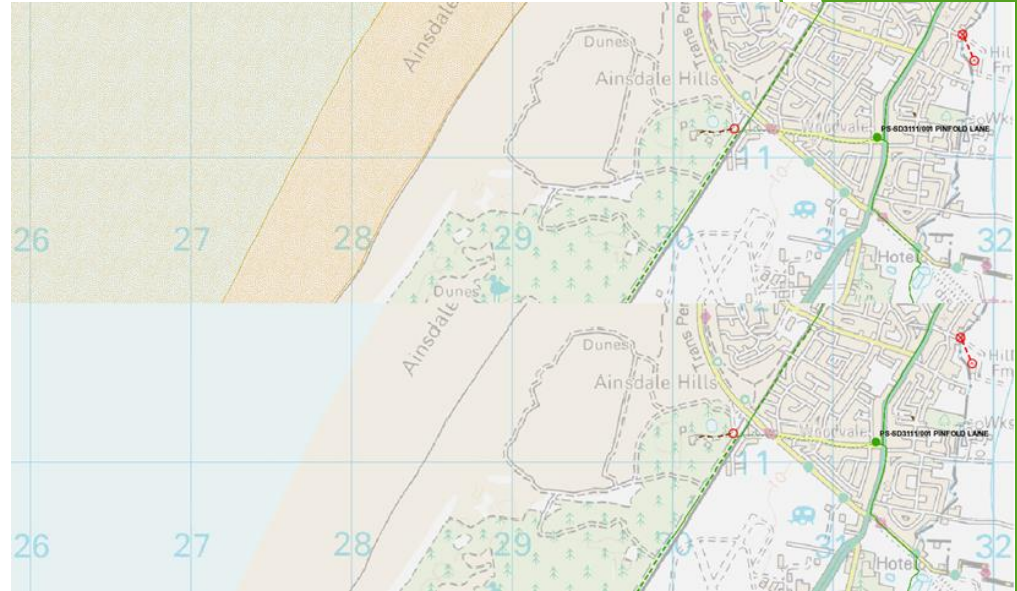
The Highway Code now has new instructions for electric vehicle users. And one of these is primarily focused on what to do when using a charging point:

- Drivers should park as close to the device as possible so the charging cable doesn't become a trip hazard for people walking.
- And if they are concerned someone might fall over the cable, they should put out a warning sign near their vehicle.
- The guidance also states that they should neatly return the charging cables in the device so they don't cause a hazard for pedestrians when not in use.



# Using GIS for Environmental Planning & Design

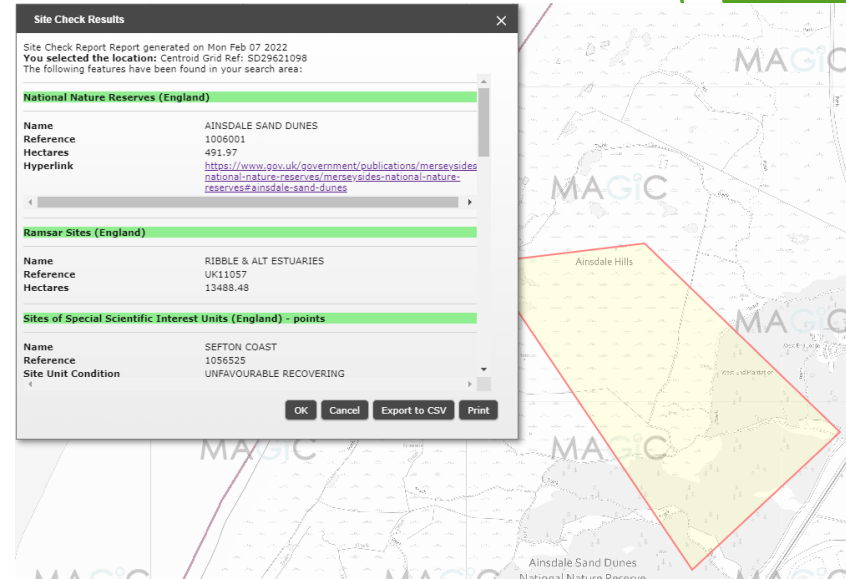
- GIS has a number of switchable layers relating to areas of environmental interest
- The layer selections are found viewed under General/Environmentally Sensitive Areas and has the following options:
  - National Parks
  - Areas of Outstanding National Beauty
  - **Special Protection Areas**
  - **Special Area of Conservation**
  - RAMSAR
  - National Nature Reserve
  - **Site of Special Scientific Interest**
  - Ancient Woodland
  - Scheduled Monuments
- Layers use same pattern but different colours so hard to distinguish when all on at once
- Don't forget Conservation Areas and Tree Preservation Orders (TPO's) are not show on GIS



The example above is a Special Protection Area, a Special Area of Conservation, RAMSAR, a National Nature Reserve and a Site of Special Scientific Interest

# Using Magic Map for Environmental Planning & Design

- Magic Map is a website application provided by the Department for Environment, Food and Rural Affairs (DEFRA)
- It provides additional detail in addition to that held in GIS (e.g. listed buildings)
- The site check tool allows you to select the area you're working in and the app will perform a check against the items checked on the left hand panel



## Ainsdale Sand Dunes

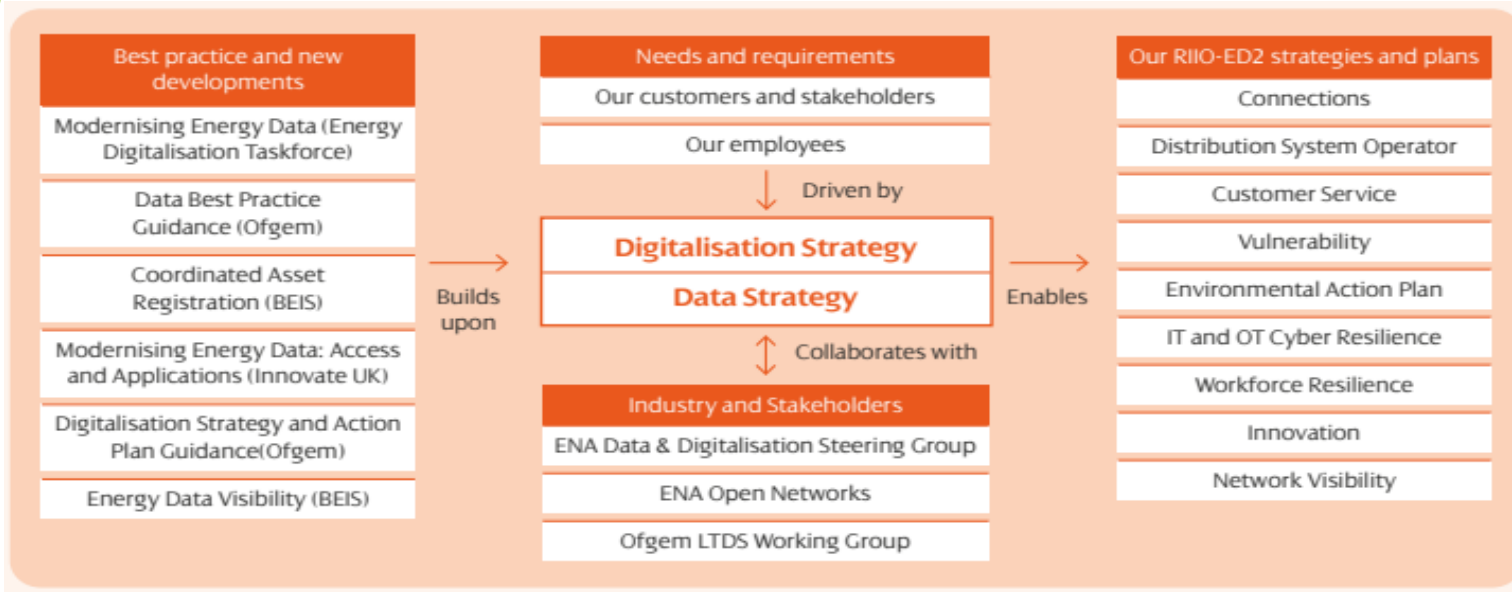
The dunes are home to over 450 plant species including 33 that are locally or regionally rare like petalwort, seaside centaury, yellow bartasia, round-leaved wintergreen, dune helleborine and pendulous-flowered helleborine.

Main habitat: coastal sand dunes

# ED2 Preparation and Connections Transformation

- ▶ Rachel Shorney
- ▶ SPM Stakeholder Engagement Manager

# Our ED2 Digitalisation Strategy



**Our IT and Digitalisation Strategy describes** - the business as usual activities necessary to maintain and evolve our existing non-operational IT and telecommunications estate.

This includes hardware and software maintenance, support and upgrades, and changes required to 'run the business'.

Examples of the latter are digital solutions to support the forecasted increase in connection requests and digital customer communication channels.



## Our digitalisation strategy facilitates the delivery of our RIIO-ED2 programme



### Using digital technologies to deliver enhanced customer service

Single view of the customer, digital channels, self-service solutions with intelligent support agents.

### Optimised asset and network management

Autonomous operation, instrumentation, asset lifecycle management, digital twins, field-based solutions.

### Developing options to manage peaks in Load

Active LV network, influencing behaviour beyond the meter, DSO, whole system.

### Supporting the development of new business models and markets

Flexibility markets, development of an energy technology sector, driving focus on environmental initiatives.

### Investing in the digital skills of our people

Embrace a digital culture, support workforce transition.

### Improving mastery of our data

Data governance, data sharing, integrated reporting & analytics, artificial intelligence.



## What we will do:

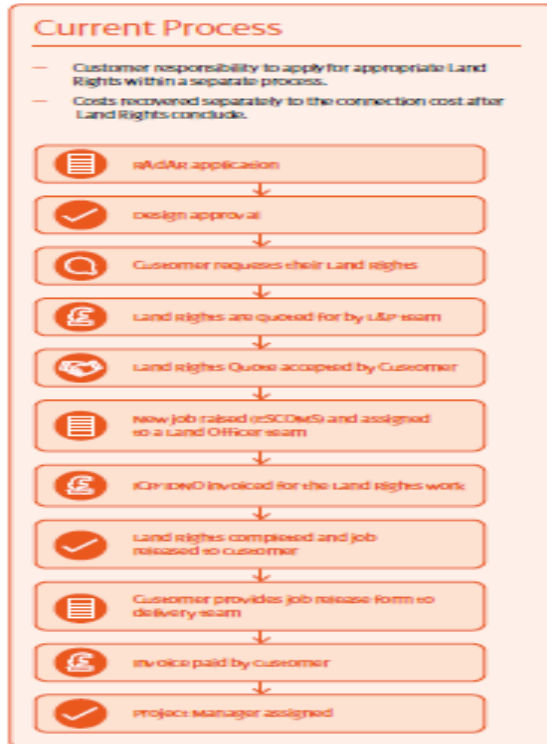
1. We will build a single view of our customers and our interactions with them across different services.
2. Open new digital channels and develop self-service options for key customer journeys to give our customers more choice.
3. Implement a customer data portal, customer data line and build on our strong governance of our vulnerable customer data.
4. Develop a suite of digital tools capable of supporting the anticipated significant increase in the volume of connection enquiries.

## Land & Planning

- ▶ Stuart Walker
- ▶ SP Distribution Customer Engagement Manager

# Land & Planning Improvement proposal

## Progress of Land and Planning Process



Land Rights type to be a changeable options to allow for flexibility throughout initial design Application

As part of the ongoing ICE process we have further improved our Land and planning processes... allowing our CiC connection customers to have visibility of land rights requirements at the outset and provides a quote which is more accurate for the full connection request.

## Minor Amendments Process

- ▶ Neil Woodcock
- ▶ SPM Head of Design & Planning, Merseyside

# Trial to improve Minor Amendments Process

## Merseyside District and ICP within the SPM area

- We acknowledge that ICP's have been frustrated in design approval delays for relatively minor changes in scope to their designs
- We have reviewed how we can allow works to progress on site prior to a formal design approval being completed for such works
- The aim is to prevent any delays in work on site
- Plan to roll-out process and training to all SPM Districts

# Trial to improve Minor Amendments Process

- Heads of Planning & Design / Delivery for SP Manweb have agreed the scope of work that could be classified as minor amendments
- These amendments are minor in nature so do not pose a risk to continued delivery
- A revised design approval binder submission will still be required prior to energisation but this should help avoid any delays in ongoing construction work



## Fast Track Approval Process for Minor CiC Design Changes

- Any change in size or type of generation or demand will require a resubmission.
- Anything not in the list below will require full standard design approval prior to the affected works being carried out unless agreed with the responsible design engineer in advance.
- The following guiding principles will assist a SPEN delivery project co-ordinator to quickly determine if the change in scope of works can progress before a design resubmission is approved.

### Change in POC location

#### LV

- Movement  $\leq 5\text{m}$
- Same circuit
- Same side of split point
- No route change through 3<sup>rd</sup> party land
- New position meets design requirements (e.g. not in driveway / inaccessible)

## HV/EHV

- Movement  $\leq 30\text{m}$
- Same circuit
- Between same switching points
- No route change through 3<sup>rd</sup> party land
- Consider any impact on pilot / telecoms POC
- New position meets design requirements (e.g. not in driveway / inaccessible)

## Change of route of on-site cables

- No route change through 3<sup>rd</sup> party land
- No increase in adopted cable route length  $\geq 5\text{m}$  for LV
- No increase in adopted cable route length  $\geq 30\text{m}$  for HV
- No impact on other 3<sup>rd</sup> party assets such as oil pipelines

### Movement IDNO assets (e.g. feeder pillar or link box)

- No route change through 3<sup>rd</sup> party land
- No increase in adopted cable route length  $\geq 5\text{m}$  for LV

### Change to approved plant / equipment

- Like for like change of equipment which must be on approved equipment register (e.g. Schneider RN2d to Lucy Sabre RMU)

# New Design Approval Guidance / Checklist

- ▶ Neil Woodcock
- ▶ SPM Head of Design & Planning, Merseyside

# New Design Approval Guidance / Checklist

- Internal Review Workshop held on 27<sup>th</sup> October in SP Manweb to confirm requirements for the four main areas covered by design approval of LV/HV submissions:
  - Underground cable and overhead line routes
  - Plant and switchgear
  - Substation civils and associated earthing
  - Protection and telecoms
- ICP's do not currently have clear guidance on what information we expect to be submitted for a design approval
- There has been an inconsistent approach across districts for design rejections causing frustration and uncertainty

# New Design Approval Guidance / Checklist

- The workshop has resulted in a new guidance template which will be issued to all ICP's
- The template will include supplementary guidance on what is expected to support an earthing design selection (EART-03-003) and a new civils checklist for substation buildings
- Constructive feedback on the template will be appreciated
- A standard design rejection report will also be produced by the template to improve consistency
- The template also includes guidance on the main design policy documents which should be adhered to



## Feedback required - next steps

Suggest further Quarterly Session:

We are continuing to work with IT to finalise the proposed improvements and seek financial approval for any change implementation process.

We will provide an update of the progress and plans throughout 2022.

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Thank you for your time today.

*Your feedback has been  
useful and we will follow up  
and incorporate your  
comments when planning  
our next session.*

## Upcoming events for the calendar:

- **ICP/ IDNO Safety Seminar**
  - Wednesday 23<sup>rd</sup> February 2022
    - 13:30
- **Preparing for Net Zero Conference**
  - Wednesday 9<sup>th</sup> March 2022
    - 09:30 to 12:00 – Whole Systems
    - 13:30 to 16:00 – EV and Heat