

FOI DCC 5G installation and organisation

Posted on [4 December 2018](#) in [ICT](#), [Information technology](#)

1. Do you have a 5G strategy?

1.1 If yes, I request to see the complete strategy, its ambitions and its objectives in PPTX, Word, and PDF or picture format.

1.2 If yes, has the public had the opportunity to read and understand the councils 5G strategy? Where was this information published?

1.3 I also request a supplementary document that includes the highest level of detail on all 5G technology that's planned to be used and current in use in public spaces within Devon:

(a) Companies and entities involved and the names of the company/entity officers.

(b) Specification sheets of all 5G technology.

(c) What technology e.g. units and arrays are not currently 5G, but can be 5G enabled e.g. with current software, future software, hardware upgrades or retrofitting?

(d) What UK, EU and International safety standards is Devon County Council complying with for the 5G strategy and existing 5G technology.

(e) I request proof e.g. a certificate from Devon County Council that confirms that UK, EU and International safety standards for workers and the public have been meet.

1.4 If no, I request all documentation, memos, emails and communication on companies and entities you're in talks with regarding the formulation of a 5G strategy.

2. I request the name/s of the Officer/s in charge of the 5G strategy and roll out including their CV and qualifications in 5G and Smart Cities; and who their subject area expert or consultancy is, their CV and qualifications on 5G and Smart Cities.

In response to questions 1 and 2, we can confirm that Devon County Council does not have a 5G strategy and have not engaged with any 5G market/companies, given that the 5G market has yet to be defined.

National and international bodies have yet to set any standards for 5G, and as such, any talk of 5G investment is research and development (R&D) in focus.

As a Council we are not investing in any 5G R&D currently, nor have we secured any of Central Government's R&D funding for investigating 5G technology

3. Are you in talks with any experts, companies or entities about autonomous vehicles (AV) for public transport and/or private use on Public Highways?

3.1 If yes, I request to see the complete strategy, its ambitions and its objectives in PPTX, Word, PDF or picture format.

3.2 I also request a supplementary document that includes all levels of detail on:

(a) Companies and entities involved and the names of the company/entity officers?

(b) Specification sheets of all technology.

(c) What type of communication system will Devon County Council be utilising to control the vehicles?

(d) What UK, EU and International safety standards does your AV strategy and rollout comply with?

(e) I request proof e.g. a certificate from Devon County Council that confirms that UK, EU and International safety standards for workers and the public have been meet.

3.3 If no, I request all documentation, memos, emails and communication on companies and entities you're in talks with regarding the formulations of an autonomous public and private vehicle technology strategy.

No

4. Do you have a strategy for smart roads and smart signage on Public Highways and Public spaces?

4.1 If yes, I request to see the complete strategy, its ambitions and its objectives in PPTX, Word, PDF or picture format.

4.2 I also request a supplementary document that includes all levels of detail on:

- (a) Companies and entities involved and the names of the company/entity officers?**
 - (b) Specification sheets of all technology.**
 - (c) What technology e.g. units and arrays will not be 5G, but can be 5G enabled e.g. with current software, future software, hardware upgrades or retrofitting etc (you must be specific on anything here)?**
 - (d) What UK, EU and International safety standards does your 5G strategy and rollout comply with?**
 - (e) I request proof e.g. a certificate from Devon County Council that confirms that UK, EU and International safety standards for workers and the public have been met.**
- 4.3 If no, I request all documentation, memos, emails and communication on companies and entities you're in talks with regarding smart roads and smart signage.**

No – we can confirm that we are waiting for more formal guidance and some best practice examples

5. Are you planning to rollout or have rolled out LED street lighting?

Yes

5.1 If yes, please answer these questions:

(a) What is the CMS and specification of the software and hardware of the LED street light system?

The system is Harvard Technology: LeafNut – used in the Exeter Area

(b) What type of waveform is the LED? e.g. Square wave?

Devon County Council use LED drivers with constant current, the DC output is flat with no wave. The drivers do not have or need Pulse Width Modulation control as an output to the LEDs, we use LED drivers that are flicker free.

(c) Can you control the Pulse Width Modulation (PWM) of the streetlight system using the CMS?

Following our response to question 5.1(b) above this question is not applicable.

(d) Can you control the PWM of each streetlight that's connected to the system?

Following our response to question 5.1(b) above this question is not applicable.

(e) What restrictions do you have in place for the control of the PWM?

Following our response to question 5.1(b) above this question is not applicable.

(f) What is the UK, EU and International safety limit (low and high) for the amount of 'flicker' (Hz) the Human Body and eyes can be exposed to and for how long?

Devon County Council do not hold this information

(g) I request to see the training manual and safety operation manual for the CMS and the LED streetlight system.

Devon County Council do not hold this. Please contact Harvard Technology for the CMS information. Their contact details can be found online at: <https://www.facebook.com/harvardtechnology/>

(h) Who is the company who is or has installed the CMS LED streetlight system?

SSE – Scottish & Southern Energy

(i) What company maintains and repairs the CMS and LED streetlight system?

SSE – Scottish & Southern Energy

(j) What entity and Officer is responsible for the safety standards for the CMS and LED streetlight system?

Harvard and the Maintenance & Installation Teams

(k) I request proof e.g. a certificate from [Council] that confirms that UK, EU and International safety standards for workers and the public have been meet.

All luminaires & CMS systems are CE marked

(l) What is the amount of Blue Light leakage that's safe for the public and workers during the LED streetlights operation?

Devon County Council do not hold this information

(m) What level of LED streetlight exposure is safe for the public at daytime and night time?

Devon County Council do not hold this information

(n) Is there a legal requirement for diffusers to be fitted to LED streetlights?

No

(o) How have you have addressed the amount of Oxidative Stress on Human and Animal cells that's produced from LED?

All our LED products are CE marked and therefore conform to applicable British Standards and EU Regulations at the time of manufacture.

5.2 If no, then I request a declaration from Devon County Council that you will not be installing LED streetlights in the future.

Following our response to question 5.1 and the subsequent questions above, this question is no longer applicable.

6. I request all memos, presentations, documents, plans, rollouts, emails and details regarding 2G, 3G, 4G, WiFi and WiGIG in public spaces.

Devon County Council do not hold this information.

<https://www.smartenergygb.org/en/get-a-smart-meter/the-installation-process>

Do I need a broadband connection in my home to have a smart meter?

No. Smart meters use an entirely separate, bespoke wireless system. You don't need Wi-Fi in your home for it to work and it won't use your Wi-Fi if you have it. Your smart meter and in-home display communicate via a secure national network which is solely for smart meters. This works in the same way as other wireless systems like car remote keys or TVs, using radio waves.

The cost of installing the smart meters is estimated at £11bn. Energy companies are meant to pass on cost savings to customers but there are concerns about the extent to which they'll do this.