

## Will Cartwright

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**From:** .Box.EMF.Helpline  
**Sent:** 16 November 2015 10:33  
**To:** Will Cartwright  
**Subject:** RE: EXTRNL SENDR || Impact of high voltage powerline - Land north of Holme House Residential Home, Oxford Road, Gomersal, Cleckheaton, BD19 4LA

Will

Apologies, finger trouble pressed the send while preparing the email.

The overhead line is a 400kV overhead line which belongs to National Grid.

Like all electrical equipment, overhead lines produce electric and magnetic fields (EMFs). General information on EMFs and science as well as typical figures for the EMFs arising from a range of overhead lines used in the UK can be found on page 6 of the attached "EMF the Facts" link. Information on typical EMFs in UK houses can be found on page 7 of EMF the Facts.

[http://www.emfs.info/wp-content/uploads/2014/07/EMF\\_The\\_Facts\\_260613.pdf](http://www.emfs.info/wp-content/uploads/2014/07/EMF_The_Facts_260613.pdf)

More detailed information can be found by following the pictures and links to various overhead line types on the emfs.info website. This covers transmission equipment (operating at **400kV** and 275kV) and distribution equipment (operating at 132, 66, 33 11kV and 400/230V). Follow the links and pictures to see graphs showing the typical EMFs that can be found close to overhead lines <http://www.emfs.info/sources/overhead/specific/>.

The graphs for typical power flows and magnetic fields give the best representation of everyday EMF exposure. It is very rare that overhead lines operate at their maximum operating capability and when they do it tends to be for very short periods of time only.

There is a great deal of reported information on scientific studies looking at whether exposure to magnetic fields might be a cause of ill health - you can find a summary of information at <http://www.emfs.info/emfs-glance/>. More information is available at [www.emfs.info](http://www.emfs.info). You may also find the information in the following link in the archive section of the former UK Health Protection Agency (now Public Health England) website of interest.

<http://webarchive.nationalarchives.gov.uk/20140714084352/http://www.hpa.org.uk/Topics/Radiation/UnderstandingRadiation/UnderstandingRadiationTopics/ElectromagneticFields/ElectricAndMagneticFields/SourcesAndExposureToElectricAndMagneticFields/>.

The overhead line will comply with the Government Guidelines on EMFs, and at a distance of c 150m from the site there will be no measurable magnetic field directly from the overhead line, just the normal background magnetic field for that area. It is possible that because of some coverage of this topic that there may be a perception issue among some people, however hopefully the compliance of the overhead line with the required guidelines and the distance which from the property should be reassuring. The booklet EMF the Facts at the link above gives a good source of information which you can use along with the website [www.emfs.info](http://www.emfs.info) in answering questions that may arise.

If you have further questions on EMF or you think I may be able to assist further please feel free to reply to this email.

Regards

Chris Haswell

EMF Advisor  
National Grid  
Tel 0845 702 3270

[www.emfs.info](http://www.emfs.info)

Did we address your EMF concerns? Feedback to [box.EMF.Feedback@nationalgrid.com](mailto:box.EMF.Feedback@nationalgrid.com)

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From: Will Cartwright [mailto:will@heritageplanningdesign.co.uk]  
Sent: 16 November 2015 10:05  
To: .Box.EMF.Helpline  
Subject: EXTRNL SENDR || Impact of high voltage powerline - Land north of Holme House Residential Home, Oxford Road, Gomersal, Cleckheaton, BD19 4LA

Dear Sir/ Madam,

The above site (location plan attached) is being considered for housing. However, there is a large high voltage powerline approximately 150 m north of the site and the potential for this to have a negative impact on health has been questioned. Please can you confirm if the powerline is a significant health concern or not? Or what further investigations are required.

Yours faithfully,

William Cartwright BA(Hons) DipTRP MRTPI  
Chartered Town Planner & Heritage Consultant

**HPD**

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