

Distribution of broadband services over existing power lines raises the possibility of massive interference to all other wireless services and users of the RF spectrum. The power lines constitute a huge distributed antenna which would radiate energy across the spectrum.

This energy would not be limited to the frequencies used to provide the broadband service, but would include intermod products generated by non-linear components within the system such as corroded connections. This problem is well known at commercial multi-system tower sites where rusted bolts on the towers can create intermodulation products from various combinations of transmitter frequencies.