

# Earthdome Ltd comments

Page: [Draft New London Plan](#)

Section: [N/A](#)

There are alternative ways of improving the energy efficiency of buildings in London that are not in general use.

We have been working with a new patented technology Oxypod which has been tested at the National Physical Lab (NPL) Teddington and UCL.

It is a simple patented technology with no moving parts that can be attached new or as a retrofit to boilers.

It removes dissolved oxygen down to 2 parts per billion (ppb) in the closed loop of heating systems of any size be it home, office, factory, hospital, or power station. At this level corrosion is not considered a problem. No need for magnets or chemicals.

Because there are no gases in the water the water in the heating loop heats up quicker and returns to the boiler hotter thus the boiler will not fire so often leading to reduced gas consumption and cleaner air quality for London.

It has been tested by National Energy Action (NEA) and shows a 24% energy efficiency. NEA are interested in the technology's ability to help those in fuel poverty and low income. At a Building Research event it was selected as the judges' product they would put their money on.

It will have household energy savings between £100 to £300.00 per property and costs only £200.00 to buy.

PV on homes will cost around £5000.00 for a 4kW system and only achieve an electrical saving at best of £300.00

External wall insulation will cost around £8000.00 to £10,000 and will only save around £300.00

The NPL Teddington report is available.

**My comment is:** The London Plan should make it possible for new and emerging technologies to be formally introduced for consideration as a solution to London's energy efficiency programmes.

Page: [Foreword](#)

Section: [N/A](#)

Please include the following: I should like to encourage all those with innovative ideas and solutions for London to come forward and contact the Mayor's office. It is proposed that a formal procedure will be put into place to handle these ideas and proposals on a regular basis.

Page: [Policy GG6 Increasing efficiency and resilience](#)

Section: [N/A](#)

To create social cohesion consideration should be given to those in fuel poverty or low income.

Please include:

Those in fuel poverty or low income should receive help with obtaining new or emerging technologies that can be fitted to their heating systems to increase energy efficiency and lower their energy bills.

Note: The Mayor could introduce a competition to find these new and emerging technologies.

Page: [Policy S11 Improving air quality](#)

Section: [N/A](#)

The air quality section should include the following:

Any new or emerging technology that has been tested to a recognised standard that improves air quality should be encouraged to come forward for consideration and support from the GLA.

End

We have a patented technology for gas boilers tested at NPL Teddington that can improve air quality.

Page: [Policy S12 Minimising greenhouse gas emissions](#)

Section: [N/A](#)

Please add this to S12.

Those developing new or emerging technologies that reduce greenhouse gas emissions in London should be encouraged to come forward to the Mayor office for formal consideration for support from the offset funds.

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Page: Policy S13 Energy Infrastructure

Section: N/A

Please include the following in S13

New and emerging technologies and inventions that can improve the efficiency of London heat networks and existing or proposed gas boilers of any size should be encouraged to come forward to the Mayor's office for consideration and support.

End

Note: The Mayor may consider a regular funding competition for new and emerging technologies and inventions related to Energy Infrastructure in London.