Central Networks

A company of *eon*

Theft of Gas and Electricity Sem inar

Angela M ann Revenue Protection M anager CentralNetworks W est

7th June 2004

Revenue Protection in CentralNetworks West

CentralNetworks W est

- Activity existed form any years in M idlands Electricity
- Dedicated team working for Asset Owner
- Retained when supply business sold to npow er
- Retained following the publication of separate Licences for suppliers and distributors in October 2001

CentralNetworks East

- Activity existed form any years in EastM idlands Electricity
- Dedicated team working on behalf of Asset Owner
- Sold when m etering business sold to Siem ens Energy Service Ltd
- Provided through Use of System Agreem ent as a contracted service

Illegalabstraction - the scale of the problem

- Illegalabstraction is a component of distribution bases
- Also includes
 - m easurem enterrors
 - settlem enterrors
 - technicalbsses
- Distribution bases estimated at 7% of electricity distributed
- Equivalent in GB to 20,000 GW h or £600m
- Illegalabstraction could account for up to 20% of this or £120m

Illegalabstraction -w ho should care?

- Custom ers?
 - pay for those that steal
- Suppliers?
 - licence obligations
 - limited commercial incentives
- Distributors?
 - limited licence obligations
 - com m ercial incentives
 - safety and security of the network
- Ofgem?
 - com pliance with licence obligations
- Energywatch?
 - fairdeal for all custom ers -especially the honest custom ers

Are the current arrangem ents effective?

- Need for discussion suggests -no
- Suppliers bear the cost if illegal abstraction is identified
 - Offenders not always identified
 - Difficult to recover money
 - Open to energy watch com plaints
- Distributors bse if illegal abstraction is not identified
 - Distribution bases do not reduce
 - Use of system income not realised
- RP service providers tenacity m ay have perpetuated supplier inertia

What do distributors lose?

- For every residential custom erw ho illegally abstracts electricity a distributor's annual allow ed revenue falls because:
 - of the unit volum e driver, i.e. $0.5(4.000 \text{KW} \text{ h} \times 1.6 \text{p}) = \pm 32$
 - and the bases driver, i.e. 4000KW h x 3.1p = £124
 - Total bst revenue = £156 per custom erperannum
- Clear com m ercial incentive on distributors to prom ote Revenue Protection due to lost units
- BUT, reliant upon suppliers entering lost units into settlem ents

Alternative M odels

- Work within current fram ework
- Allow the licence conditions to prevail
- Incentives for suppliers and distributors must equalise the risks
- Central process facilitated by 0 fgem
- Voluntary code, where participating com panies realise benefits
- Geographical benefits in aligning with distributors
- Funding a challenge, that the industry must agree upon
- Sim ibrities between gas and electricity should be utilised effectively

International Comparisons of Electricity Theft Levels

Jam aica - 19% (The Caribbean Cam era, M ay 21 2004)
India - 8%

(Chaim an of M aharashtra State Electricity Board)

- USA \$4 billion
 (Edison Electric Institute)
- Brazil T&D bsses 20%, estimated non-technical half of this
 (IURPA Presentation July 2003)
- Israel 1% = \$20-30m perannum (IURPA Presentation July 2003)