

Distribution Charging Update

Agenda

- Charging Methodologies and governance
- Tariff Setting
- HV/LV Connected Customers
- EHV Customers
- 19/20 Charges
- Recent Changes
- Future Changes
- Treatment of storage
- Charging Futures Forum
- Distribution Charging Overview Document
- DCP66A Supplier Reports
- Charging Information Published By WPD

Charging Methodologies Governance

- Common national DUoS charging methodologies
- Governance is via DCUSA
 - Distribution Connection and Use of System Agreement (DCUSA)
 - An industry code
 - DNO Licence obligation to comply with it
 - DUoS charging methodologies are in DCUSA
- DCUSA parties can suggest change proposals

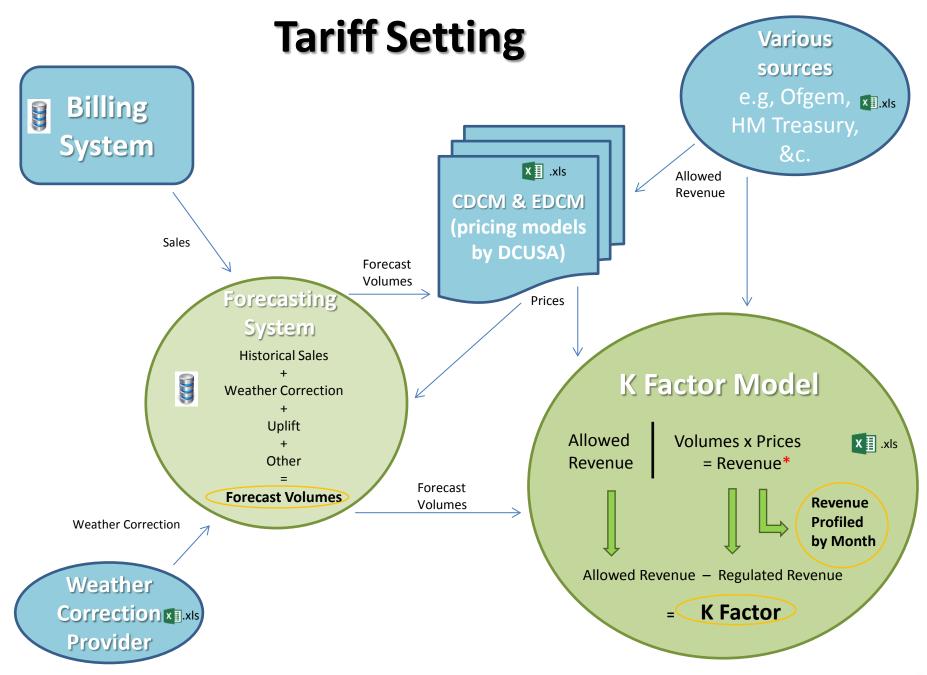
Tariff setting & forecasts

Setting tariffs for the Apr19-Mar20
regulatory year in Nov/Dec17 requires a
forecast or reforecast of volumes for...

Nov17-Mar18 Remainder of current reg year

Apr18-Mar19 Reg year +1

Apr19-Mar20 Reg year +2



HV Connected and below

- Uses CDCM Common Distribution Charging Methodology
- CDCM Uses Average Charging Approach
- Specific Charges Are
 - Fixed Charge
 - Unit Rates
 - Single Unit Rate
 - Dual Unit Rate (Day and Night)
 - Red Amber Green
 - Capacity Charge
 - Reactive Power Charge
 - Excess Capacity Charge
 - Generators Have Credits Unit Rates

Simple way of thinking about the CDCM model...

Allowed Revenue (£)







TARIFFS

(pence per unit, &c)



EHV Connected

- Sites Connected At The HV Substation And Above
- Uses EDCM Charging Methodology
- Locational Charges
- Price Depends On
 - Where Site Is Connected
 - Asset Usage
 - Voltage Level Of Connection
- Super Red Charge (Credit For Non Intermittent Generators)
- Fixed Charge (O&M On The Sole Use Assets)
- Capacity Charge (Using NUFs)



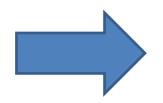
Simple way of thinking about the EDCM model...

Inputs

Customer data, engineering data, &c, &c, &c

Total revenue to be recovered

(Allowed Revenue from CDCM £)



Outputs

REVENUE AMOUNT

(Amount of Allowed Revenue to be recovered from EHV customers)

PRICES

(Tariffs required to recover the above Revenue amount from EHV customers)

2019/20 Charges

Allowed Revenue	South West	South Wales	Mid West	Mid East
Base Revenue	£351.8	£247.6	£485.5	£488.0
Pass through cost items	-£0.7	-£7.6	-£4.9	-£8.0
Losses	£0.0	£0.0	£0.0	£0.0
Broad measure	£4.1	£3.0	£5.6	£5.7
Quality of supply	£1.4	£3.0	£22.7	£22.0
Time to connect	£1.3	£0.8	£1.8	£1.8
NIA	£1.1	£0.8	£1.6	£1.5
Low Carbon network	£0.2	£0.1	£0.3	£0.3
Less over Recovery at end of 2017/18	-£7.1	£8.1	£2.2	£3.4
Gives total revenue target of	£352.1	£255.8	£514.8	£514.7
Overall Price Change	1.6%	3.7%	2.4%	5.0%

Recent Changes - CDCM

- DCP228 Scaling
 - Implemented for April 18
 - Previously Most Of The Scaling Applied To The Unit Rate 1
 - From April 18 the scaling is being spread across all Unit Rates
- DCP161 Excess Capacity Charges
 - Implemented for April 18
 - Previously the excess capacity charge and the capacity charge were at the same rate
 - From April 18 the excess capacity charges will be at a higher rate than the capacity charges
 - The reason for the difference is that the excess capacity charges will not include a reduction for customer contributions
- DCP179/ P272 Movement Of LV/ LV Sub and HV Medium To Half Hourly
 - Most of the movement complete
 - Chargeable Capacities for all sites moving to LV/ LV Sub and HV Half Hourly
- DCP248 12 Months Grace Changing Capacity
 - Customers moving from Non Half hourly to Half hourly able to change capacity within 12 months of moving if Chargeable Capacity set to wrong level

Future Changes — CDCM/ EDCM

- DCP268 Move to Half Hourly tariffs and red, amber green
 - Change proposal went to OFGEM
 - OFGEM returned it to DCUSA group
 - To look at the implementation date
 - To further analyse the intermittent generation
- DCP313 Eligibility Criteria for EDCM Generation Credits

Treatment Of Storage

- Electricity storage, including battery storage, fall within the definition of non-intermittent generation
- Storage sites
 - Will be eligible for CDCM credits
 - Could be Eligible for EDCM super-red credit should a charge 1 exist for a particular EDCM location
- Battery storage is a relatively new technology, so in the future, the precise nature of it will be reviewed to determine if the treatment of storage as non-intermittent generation remains appropriate.

Charging Futures Forum

- Ofgem has set up a new structure to facilitate co-ordination of changes to charging arrangements, called the Charging Futures Forum (CFF). The CFF has the aim of bringing together the various ongoing and emerging electricity network charging reviews into a joined-up work programme.
- More information on the CFF (including papers) can be found at <u>chargingfutures.com</u>

- WPD has recently published a short document providing an overview of Distribution Charging.
- The aims of the document is to provide
 - a background to charges
 - some tips for customers on how to reduce their bill
 - some background on potential future changes
 - and how an EDCM generator might estimate its bill

- Background to charges
 - Types Customers covered by the CDCM
 - Types Customers covered by the EDCM
 - Governance procedures and changes
 - How customers are charged
 - Final bill % from DNO charges

- Some tips for customers on how to reduce their bill
 - Reducing Consumption specifically in peak periods
 - Ensure capacity requirements are correct

- Some background on potential future changes
 - Electricity sector is undergoing significant changes
 - Smaller more local generation
 - Electrification of transport
 - Rollout of smart meters
 - Ofgem developed the idea of Charging Futures Forum
 - Better facilitate co-ordination of network charging developments
- How an EDCM generator might estimate its bill
 - Calculation of export MPAN and import MPAN charges

DCUSA Cost Information

- Known as DCP66A Supplier Forecasts Schedule 15 In DCUSA
- WPD publish table of estimated future allowed revenue on DCUSA Website
- Supplied Quarterly
- Table 1 Breakdown of future allowed revenue
- Table 2 Shows some confidence limits for the next 2 years
- Table 3 Shows illustrative prices for the future years
- DCP66A Supplier Teleconference held
 - All DNOs present
 - WPD Chair

Charging Information Published By WPD

- LC14 Charging Statements
- Schedule of charges
- Schedule Of Losses
- Miscellaneous Charging Statements
- MAP Charges
- MPAS Charges
- Data Services

Supplier Of Last Resort Claim

- OFGEM appointed Co-Operative Energy Ltd as the Supplier of Last Resort to the gas and electricity customers of GB Energy Supply Ltd after the latter ceased trading
- Co-Operative Energy Ltd submitted a claim for Last Resort Supply Payment which was granted
- The amount claimed for is £14.04m of which £7.72 to be paid by electricity distribution licensees
- DNOs have to raise this money in 2018/19
- DNOs sought a joint derogation to increase Domestic fixed charges by 0.08p/ Mpan/ day
- If there are residual monies to be raised or DNOs have over collected, 2019/20 charges could be changed
- DNOs are trying to change the license to make SOLR claims pass through with a two year lag to prevent changes to prices made at short notice
- Note: The £14.04m is subject to the GB Energy administration process