

Market Change Request 1167			Facilitate energy efficiencies in Local Authority Public Lighting		
High	Approved	Priority	High	Status Date	06/03/2019

Date	Version	Reason for Change	Version Status
01/09/2015	1.0	Issued to Market	Final
16/09/2015	1.1	Confirmation that CCMA and TII are in agreement with the proposals in this Discussion Request has been added. 'NRA' text has been replaced with TII - the NRA has recently merged with the Railway Procurement Agency to become "TII" Transport Infrastructure Ireland.	
06/01/2016	2.0	Converted to MCR	Final
27/09/2016	3.0	Seven Additional Draft Profiles added	Final
06/03/2018	4.0	New burn hour calendars	Final
26/10/2018	5.0	Updates to Market Message Implementation Guides and Downloadable Meter Point Files Guide added to ROI Briefing Documents.	Final
19/02/2019	6.0	Cosmetic changes made to reference information in Table 2 on page 11 (i.e. text of the 'Burn Hour Calendar Description')	Final

Part 1 DETAIL OF DISCUSSION REQUEST / MARKET CHANGE REQUEST			
Requesting Organisation(s)	ESB Networks	Originating Jurisdiction	Rol
Request Originator Name	Thereaa O'Neill		
Date Raised	01/09/2015		

Classification of Request			
Jurisdictional Applicability	Rol	Jurisdictional Implementation	Both
If jurisdictional implementation is for one jurisdiction only – is the other jurisdiction required to effect any changes?	Yes	Co-Ordinated Baseline Version No.	TBC
Change Type	Schema Impacting		

Detail of Request
Reason for Request

The CCMA and TII have requested changes in the Unmetered Public Lighting sector in the Electricity Retail Market in Rol to facilitate energy efficiencies in Local Authority Public Lighting.

This request has been submitted to ESB Networks from the Local Government Sector under the auspices of the CCMA/TII. ESB Networks has received confirmation from the CCMA/TII that they are in agreement with the proposals that have been documented in this Discussion Request.

New lamp types are proposed to be installed which will have the ability to be pre-programmed to allow for Dimming at specific proportions and at specific times.

The Dusk to Dawn Burn Hour Calendar (D2D) that is currently in use is set at 4,150 hours in a year. 'Trimming' is currently included in this on the basis that lights have a warming up and down time i.e. they don't just turn on and off. As a result 10 minutes 21 secs has been taken off of the dusk and dawn timings since at least 2005 i.e. over 20 minutes a day is being 'Trimmed'.

The Local Authorities are looking for a new 'Dusk to Dawn Burn Hour Calendar with Extra Trimming' to be introduced and to be set at 4,095 hours in a year.

Similar to the current D2D Calendar, Daylight Saving Times will be incorporated into the new 'Dusk to Dawn Burn Hour Calendar with Extra Trimming'.

The CCMA/TII have confirmed that the new 'Dusk to Dawn Burn Hour Calendar with Extra Trimming' will be the basis of the energy efficiencies that the CCMA/TII are looking to implement when they introduce Dimming.

The CCMA/TII has noted that the consultation process undertaken by them across the local government sector indicated that eleven burn profiles for new Trimming / Dimming regimes are a minimum requirement for the public lighting providers over the coming years. This Change Request documents the CCMA's and TII's top four essential priorities and also the seven additional profiles which have been added in Version 3 of this document.

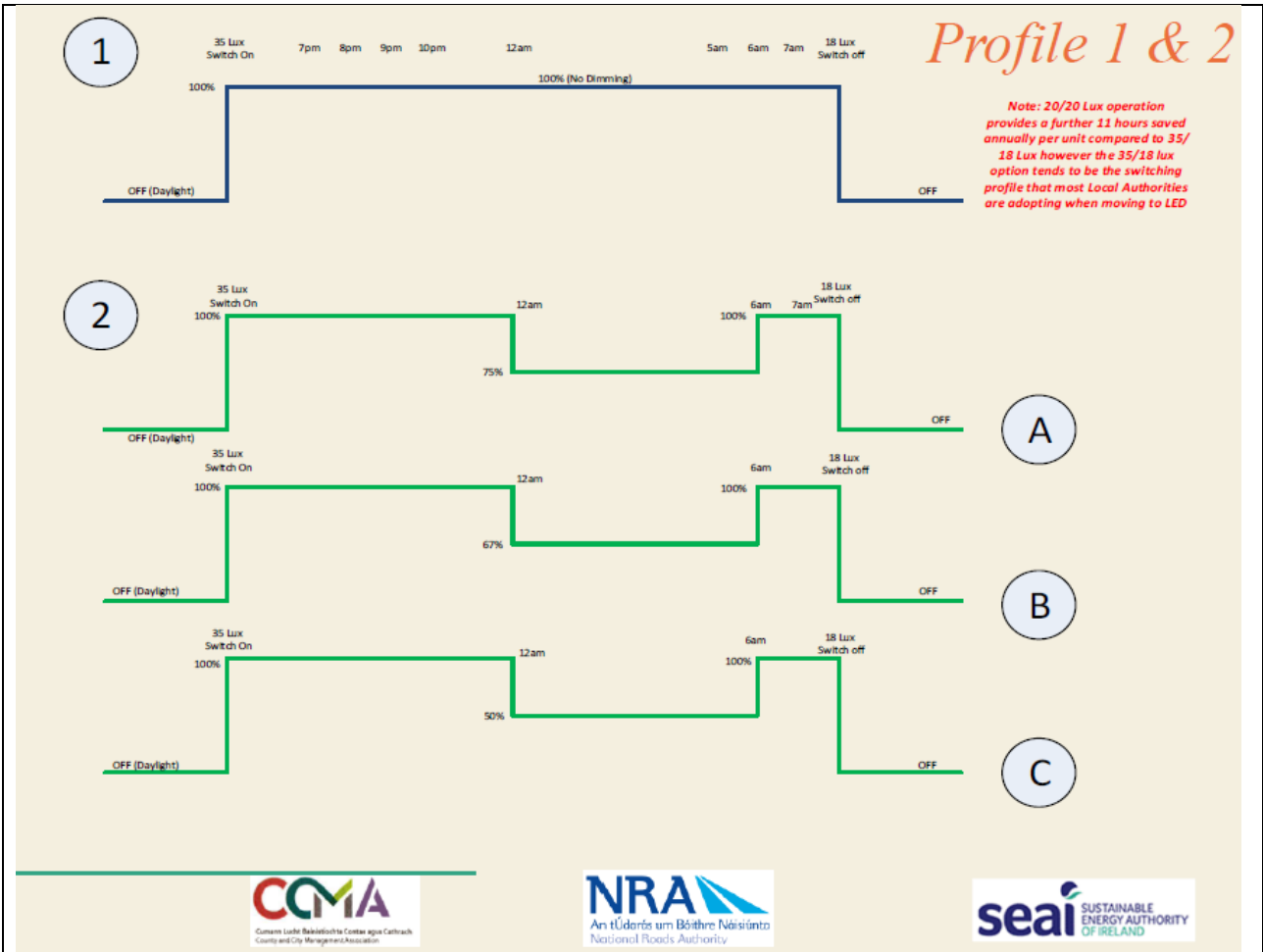
Proposed Solution

Additional Burn Hour Calendars for DUoS billing and additional Load Profiles for Data Aggregation are proposed to be introduced in RoI in the Electricity Retail Market.

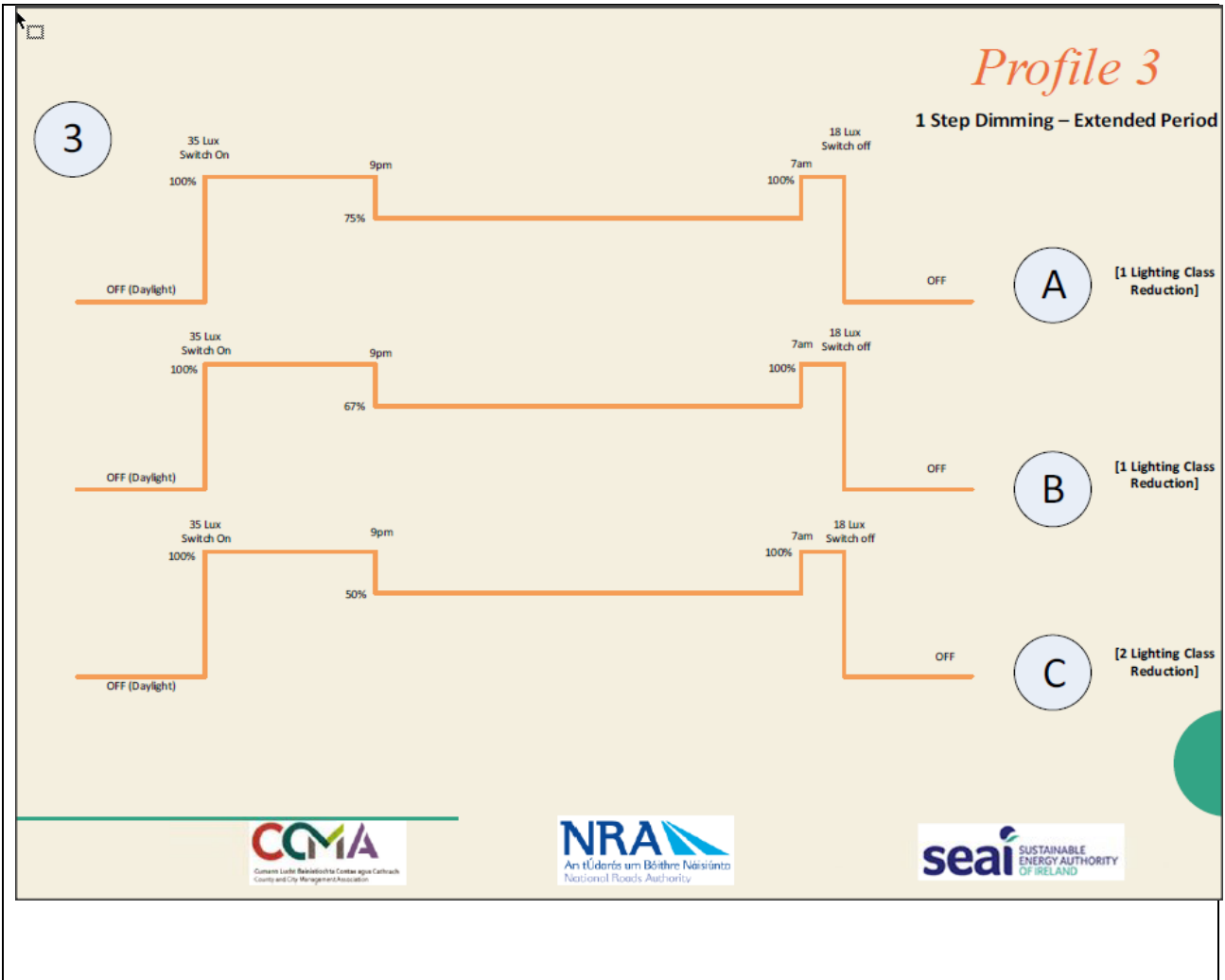
These consist of the introduction of 1 step dimming into the new 'Dusk to Dawn Burn Hour Calendar with Extra Trimming' and its corresponding new Standard Profile and where the dimming is any of 75%, 67% or 50% between the hours of midnight and 6am.

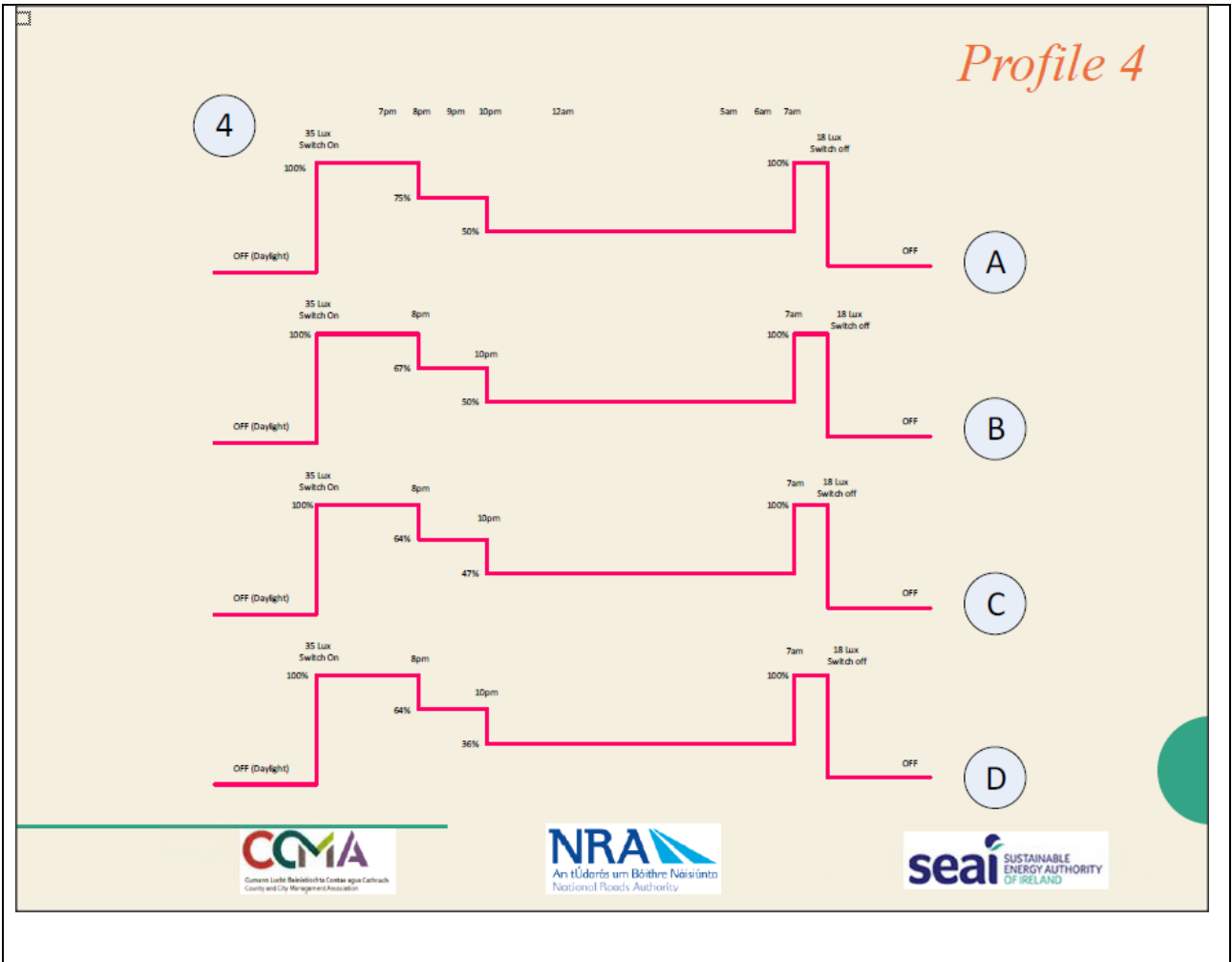
The dimming proportions are lighting output percentages. They represent 75%, 67% or 50% of 100%.

The new 'Dusk to Dawn Burn Hour Calendar with Extra Trimming' profile is pictorially represented as Profile 1 and new Dimming regimes are represented as 2A, 2B and 2C in this submission from CCMA/TII/SEAI viz:



Seven Additional Profiles are required and are detailed below.





Lighting Classes

BS EN 13201 Lighting Classes																			
Key: RA<60 - Lighting Class Selected when Light Source has a colour rendering index of <60 (Non White Light e.g. SON) S/P=1.2 & S/P=2 refers to the scotopic/photopic ratio used for white light sources (RA>60). S/P ratio of 1.2 tends to be used for warm colour temperatures. S/P ratio of 2 is used for cooler colour temperatures																			
Traffic Routes								Residential Type											
Class		Value		Class		Value		Class		Value									
ME1	2	S1	15	P1	13.4	P1	S/P=2	P1	12.3										
ME2	1.5	S2	10	P2	8.6	P2		P2	7.7										
ME3	1	S3	7.5	P3	6.3	P3		P3	5.5										
ME4	0.75	S4	5	P4	4	P4		P4	3.4										
ME5	0.5	S5	3	P5	2.2	P5		P5	1.8										
ME6	0.3	S6	2	P6	1.4	P6		P6	1.1										
1 Lighting Class (1 Stage Dimming)																			
1	ME1	ME2	75%	Profile	S1	S2	67%	Profile	P1	P2	64%	Profile	P1	P2	63%	Profile			
2	ME2	ME3	67%	2A & 3A	S2	S3	75%	2A & 3A	P2	P3	73%	2A & 3A	P2	P3	71%	2A & 3A			
3	ME3	ME4	75%	2B & 3B	S3	S4	67%	2B & 3B	P3	P4	63%	2B & 3B	P3	P4	62%	2B & 3B			
4	ME4	ME5	67%	2A & 3A	S4	S5	60%	2B & 3B	P4	P5	59%	2B & 3B	P4	P5	53%	2B & 3B			
5	ME5	ME6	60%	2B & 3B	S5	S6	67%	2B & 3B	P5	P6	64%	2B & 3B	P5	P6	61%	2B & 3B			
2 Lighting Class (1 Stage Dimming)																			
6	ME1	ME3	50%	Profile	S1	S3	50%	Profile	P1	P3	47%	Profile	P1	P3	45%	Profile			
7	ME2	ME4	50%	2C & 3C	S2	S4	50%	2C & 3C	P2	P4	47%	2C & 3C	P2	P4	44%	2C & 3C			
8	ME3	ME5	50%	2C & 3C	S3	S5	40%	2C & 3C	P3	P5	35%	2C & 3C	P3	P5	33%	2C & 3C			
9	ME4	ME6	40%	2C & 3C	S4	S6	40%	2C & 3C	P4	P6	35%	2C & 3C	P4	P6	32%	2C & 3C			
2 Stage Dimming Profiles (Based on no more a 2 class reduction)																			
				Profile				Profile				Profile							
Stage 1		75%		4A	Stage 1		67%		4B	Stage 1		64%		4C	Stage 1		63%		4C
Stage 2		50%			Stage 2		50%			Stage 2		47%			Stage 2		45%		
Stage 1		67%		4B	Stage 1		75%		4A	Stage 1		73%		4A	Stage 1		71%		4A
Stage 2		50%			Stage 2		50%			Stage 2		47%			Stage 2		44%		
Stage 1		60%		4C	Stage 1		67%		4B	Stage 1		63%		4D	Stage 1		62%		4D
Stage 2		40%			Stage 2		40%			Stage 2		35%			Stage 2		33%		
Stage 1		60%		4C	Stage 1		60%		4C	Stage 1		55%		4D	Stage 1		55%		4D
Stage 2		40%			Stage 2		40%			Stage 2		35%			Stage 2		35%		



The lamp type in use will accurately reflect the actual wattage at a TMPRN. The Local Authorities will, as normal, advise the Unmetered Registrar (UMR) of all TMPRNs where changes in actual wattages are being made.

A separate Code Change Request will be raised as normal where needed to accommodate lamp types for Dimming.

ESB Networks will calculate the effective wattage for every lamp type that will be valid for dimming as part of the work for this Change Request. The output from this will be published.

The effective wattage will be billed in DUoS based on the dimming proportion (in conjunction with the power factor correction, as normal). Where there is dimming, the 'effective' wattage that will be billed will reflect the dimming regime in place at that lamp.

The Local Authorities will advise the UMR of the specific change that is needed for every TMPRN so that the Trimming/ Dimming regime can be reflected in the Burn Hours and Standard Load Profile in the inventory of that TMPRN.

NB: The status quo is that there is no mix of profiles at a single TMPRN, and this is not changing.

Scope of Change

Jurisdiction	Design Documentation	Business Process	DSO Backend System Change	MP Backend System Change	Tibco	Supplier EIMMA	Schema	Webforms	Extranet/NI Market Website
ROI	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NI	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

Co-Ordinated Baseline Market Design Documents Impacted by Request

Market Messages

Message No.	Message Name	CoBL	ROI	NI
591	Non Interval Aggregation	see below	see below	
700	Unmetered Characteristics	see below	see below	
700W	Unmetered Characteristics Withdrawal	see below	see below	
701	Unmetered Consumption	see below	see below	
701W	Unmetered Consumption Withdrawal	see below	see below	

Market Messages

There is no change to the structure of any Market Message.

Five Market Messages currently contain, as a required item, the field LoadProfileCode viz **591, 700, 700W, 701, 701W**. In addition to any of the current LoadProfileCode values that are valid for ROI, this Change Request will allow for the population of any of the **eleven new LoadProfileCode values, viz 13 to 23 incl** in these specific Market Messages.

Note that there are 20 further Market Messages that are outbound from ESB Networks and which currently allow for the population of a LoadProfileCode field viz. 101, 101P, 102, 102P, 114, 300, 300S, 300W, 301, 301N, 306, 306W, 307, 307W, 310, 310W, 320, 320W, 332, 332W. As none of these 20 messages are used for the population of LoadProfileCode values for Unmetered Public Lighting sites, none of the eleven new LoadProfileCode values will be populated on them.

Four Market Messages currently contain, as a required item, the field ConsecutiveNumber viz **700, 700W, 701, 701W**. To identify the various un-metered type/billing value combinations on site the same ConsecutiveNumber may repeat in line with the Burn hour calendar (See Page 9 New Burn Hour Calendars for DUoS Billing)

Data Definitions

No Impact

Data Codes

Eleven new Code Value and Code Value Descriptions for the data item Load Profile

The existing Data Item called Load Profile has the schema name LoadProfileCode. The list of Load Profile code values that are valid in ROI will be changed in the schema so that eleven new codes viz 13 to 23 incl will be added for LoadProfileCode.

The COBL will be changed so that the eleven new code values and their corresponding Code Value Description will be added to it.

These eleven new Data Code values will be valid for use only in ROI.

Table 1 displays the list of current existing Load Profile codes that are valid in ROI as well as the eleven new code values and their corresponding code value descriptions.

Note	Data Item	Code Value	Code Value Description	Valid in ROI?	Valid in NI?
Existing	Load Profile	01	Urban Domestic Unrestricted	Yes	No
Existing	Load Profile	02	Urban Domestic Day/Night	Yes	No
Existing	Load Profile	03	Rural Domestic Unrestricted	Yes	No
Existing	Load Profile	04	Rural Domestic Day/Night	Yes	No
Existing	Load Profile	05	Non Domestic Unrestricted	Yes	No
Existing	Load Profile	06	Non Domestic Day/Night	Yes	No
Existing	Load Profile	07	MD with LF up to (but not including) 30%	Yes	No
Existing	Load Profile	08	MD with LF greater than or equal to 30% but less than 50%	Yes	No
Existing	Load Profile	09	MD with LF greater than or equal to 50%	Yes	No
Existing	Load Profile	10	Unmetered - Flat	Yes	No
Existing	Load Profile	11	Public Lighting - Dusk/Dawn	Yes	No
Existing	Load Profile	12	Public Lighting - Dusk/Midnight	Yes	No
New	Load Profile	13	Public Lighting - Dusk/Dawn with Extra Trimming	Yes	No
New	Load Profile	14	Public Lighting - Dusk/Dawn with Extra Trimming and 75% dimming between midnight and 06.00 hrs	Yes	No
New	Load Profile	15	Public Lighting - Dusk/Dawn with Extra Trimming and 67% dimming between midnight and 06.00 hrs	Yes	No
New	Load Profile	16	Public Lighting - Dusk/Dawn with Extra Trimming and 50% dimming between midnight and 06.00 hrs	Yes	No
New	Load Profile	17	Public Lighting - Dusk to Dawn with Extra Trimming, dimmed to 75% from 21:00 through to 07:00 next day	Yes	No
New	Load Profile	18	Public Lighting - Dusk to Dawn with Extra Trimming, dimmed to 67% from 21:00 through to 07:00 next day	Yes	No
New	Load Profile	19	Public Lighting - Dusk to Dawn with Extra Trimming, dimmed to 50% from 21:00 through to 07:00 next day	Yes	No

New	Load Profile	20	Public Lighting - Dusk to Dawn with Extra Trimming, dimmed to 75% from 20:00 to 22:00 then to 50% until 07:00 next day	Yes	No
New	Load Profile	21	Public Lighting - Dusk to Dawn with Extra Trimming, dimmed to 67% from 20:00 to 22:00 then to 50% until 07:00 next day	Yes	No
New	Load Profile	22	Public Lighting - Dusk to Dawn with Extra Trimming, dimmed to 64% from 20:00 to 22:00 then to 47% until 07:00 next day	Yes	No
New	Load Profile	23	Public Lighting - Dusk to Dawn with Extra Trimming, dimmed to 64% from 20:00 to 22:00 then to 36% until 07:00 next day	Yes	No

Table 1

Market Message Implementation Guides

ROI	Yes/No	NI	Yes/No
Rol Co-Ordinated Retail Market Message Guide – Data Aggregation	Yes		
Rol Co-Ordinated Retail Market Message Guide – Unmetered	Yes		

A. Rol Co-Ordinated Retail Market Message Guide – Data Aggregation

MM 591 – current text:

the count of MPRNs , Load profile and DLF will always be included for each of the Load Profiles in the segment Additional Aggregation Information

will be replaced with

the count of MPRNs , Load Profile and DLF will always be included for each of the Load Profiles 01-23 in the segments Additional Aggregation Information, Additional Aggregation Data and Additional Aggregation Consumption.

B. Rol Co-Ordinated Retail Market Message Guide – Unmetered

MM700, MM700W, MM701, MM701W – current text:

Profile is a code that determines, when coupled with Timeslot, the standard profile to be applied to the consumption for settlement. The following are valid values for load profile on this message:

- 10 Un-Metered – Flat
- 11 Public Lighting – Dusk/Dawn
- 12 Public Lighting – Dusk/Midnight

Each of these eleven Rol Retail Market Message guide entries will have the following text added

- 13 Public Lighting - Dusk/Dawn with Extra Trimming
- 14 Public Lighting - Dusk/Dawn with Extra Trimming and 75% dimming between midnight and 06.00 hrs
- 15 Public Lighting - Dusk/Dawn with Extra Trimming and 67% dimming between midnight and 06.00 hrs
- 16 Public Lighting - Dusk/Dawn with Extra Trimming and 50% dimming between midnight and 06.00 hrs
- 17 Public Lighting - Dusk to Dawn with Extra Trimming, dimmed to 75% from 21:00 through to 07:00 next day
- 18 Public Lighting - Dusk to Dawn with Extra Trimming, dimmed to 67% from 21:00 through to 07:00 next day
- 19 Public Lighting - Dusk to Dawn with Extra Trimming, dimmed to 50% from 21:00 through to 07:00 next day
- 20 Public Lighting - Dusk to Dawn with Extra Trimming, dimmed to 75% from 20:00 to 22:00 then to 50% until 07:00 next day
- 21 Public Lighting - Dusk to Dawn with Extra Trimming, dimmed to 67% from 20:00 to 22:00 then to 50% until 07:00 next day
- 22 Public Lighting - Dusk to Dawn with Extra Trimming, dimmed to 64% from 20:00 to 22:00 then to 47% until 07:00 next day
- 23 Public Lighting - Dusk to Dawn with Extra Trimming, dimmed to 64% from 20:00 to 22:00 then to 36% until 07:00 next day

Comments

Only one profile on any given TMPRN

Under no circumstances will there be mixed profiles on a single TMPRN.
This is the status-quo and for the avoidance of doubt there is no change to this requirement.

Burn Hours for the New Burn Hour Calendars for DUoS Billing

Twenty five ~~eleven~~ new Burn Hour Calendars will be introduced as part of this Change Request

Refer to table 2 on the following page which shows that multiple Burn Hour Calendars(for determination of Unmetered Consumption for DUoS Billing) may be aligned with each of the new Standard Profile (for Data Aggregation).

For Example the following two Burning Hour Calendars will align with Standard Profile 14 (Public Lighting - Dusk/Dawn with Extra Trimming and 75% dimming between midnight and 06.00 hrs)

- U14A Public Lighting Profile 14 – Hours not dimmed
- U14B Public Lighting Profile 14 – Hours dimmed to 75%

The daily coefficients of the Burning Hour Calendar U14A will specify the number of hours of **undimmed** consumption per day (i.e. Billable Wattage = 100% of Actual Wattage)

9.7531 hours for 01/01/2018
9.7364 hours for 02/01/2018
Etc.

While the daily coefficients of the Burning Hour Calendar U14B will specify the number of hours of **dimmed** consumption per day (i.e. Billable Wattage = 75% of Actual Wattage)

6.0000 hours for 01/01/2018
6.0000 hours for 02/01/2018
Etc.

For a new Standard Profile, the daily coefficients (totalised for a year) of all the aligned Burning Hour Calendars will sum exactly to 4,095 hours.

e.g. (Sum of the daily coefficients for Burning Hour Calendar U14A) plus (Sum of the daily coefficients for Burning Hour Calendar U14B) = 4,095 hours

The unmetered consumption of an individual lamp in a period may be calculated as follows:

$$\text{Unmetered Consumption} = \left\{ \begin{array}{l} \text{Billable} \\ \text{Wattage} \\ \text{Undimmed} \end{array} * \begin{array}{l} \text{Burning} \\ \text{Hours} \\ \text{Undimmed} \end{array} \right\} + \left\{ \begin{array}{l} \text{Billable} \\ \text{Wattage} \\ \text{Dimmed} \end{array} * \begin{array}{l} \text{Burning} \\ \text{Hours} \\ \text{Dimmed} \end{array} \right\}$$

While the Burning Hours Dimmed are determined by summing the daily coefficients of Burning Hour Calendar U14B for the period.

The daily coefficients will be determined as part of the work to introduce this change request

~~viz U13 to U23 incl. This is to keep the one-to-one alignment of the DUoS Billing Burn Hour Calendar and its corresponding Standard Profile for Data Aggregation. The daily coefficients will be determined as part of the work to introduce this change request. The daily coefficients will be the same across all of the new Burn Hour Calendars.~~

Burn Hour Calendars do not appear on any Market Messages and this will not be changing. One of the five Downloadable Meter Points Details contain the Burn Hour Calendars viz UNMT_CUST file, and the impact on this file is considered further on under the heading **Downloadable Meter Point Details Files**. The twenty five ~~eleven~~ new Burn Hour Calendars will be revised and published annually.

Profile Coefficients for eleven new Standard Load Profiles for Data Aggregation

Eleven new Standard Load Profiles for Data Aggregation will be introduced as part of this Change Request viz 13 to 23 incl. The profile coefficients for the eleven new Standard Load Profiles will be calculated as part of the work to introduce this Change Request. The eleven new Standard Load Profiles for Data Aggregation will be revised and published annually.

DUoS Group

The DG4 Use of System tariff will continue to apply to all unmetered public lighting and other unmetered load types where the registered customer is a local authority. This means that no new DUoS Group is being introduced in this Change Request.

New Connections

There will be a change for Unmetered Public Lighting New Connections so that the 700MM will issue with DUoS_Group of DG4 when the MeterPointStatusCode is 'A' Assigned, instead of currently where the 700MM issues with DUoS_Group of DG3 when the MeterPointStatusCode is 'A' Assigned.

Retail Market Participant Extranet

There is no change to the Retail Market Participant Extranet; this will display the new Load Profile Code values viz 13 to 23 incl.in the Standard Profile Code field on the MPRN Enquiry Tab and the New Connections tab.

Downloadable Meter Point Details Files

~~There is no change to the structure of any of the five Rol Downloadable Meter Point Details Files.~~

The structure of the **UNMT_CUST** file will be extended to cater for the assignment of up to three different Burning Hour Calendar codes per TMRPN (together with the Actual Wattage and Billable Wattage values associated with each of the three different Burning Hour Calendars that could be assigned per TMRPN)

The **UNMT_CUST** file currently displays existing Burn Hour Calendar values in the existing Burn Hour Calendar column as described in Table 2. In addition to any of the three Burn Hour Calendar values that are currently valid for Rol, this Change Request will allow for the population of the eleven ~~new Burn Hour Calendar values~~, viz U13 to U23 incl in the Burn Hour Calendar field in the UNMT_CUST file.

Table 2 displays the list of the three existing Burn Hour Calendar field values that are currently valid in Rol as well as the twenty five ~~eleven~~ additional field values that will become valid in the UNMT_CUST file.

Table 3 displays the changes to the UNMT_CUST file.

For the avoidance of doubt, two columns are shown in Table 2 for information purposes only; they are not currently displayed in the UNMT_CUST file, and will not be added to it by this change request, viz Burn Hour Calendar Description and the Corresponding Load Profile Code Value.

Note	Burn Hour Calendar column		Burn Hour Calendar Description	Corresponding Load Profile Code Value
	UNMT_CUST file		<i>NB this column is for reference only : these values will <u>not</u> appear in the UNMT_CUST file</i>	<i>NB this column is for reference only: these values will <u>not</u> appear in the UNMT_CUST file</i>
	Field Value			
Existing	24H		Unmetered - Flat	10
Existing	D2D		Public Lighting - Dusk/Dawn	11
Existing	D2M		Public Lighting - Dusk/Midnight	12
New	U13		Public Lighting Load Profile 13 Dusk/Dawn with Extra Trimming	13
New	U14A		Public Lighting – Load Profile 14-Hours not dimmed	14
New	U14B		Public Lighting Load Profile 14 – Hours dimmed to 75% between midnight and 06.00	14

New	U15A	Public Lighting Load Profile 15 - Hours not dimmed	15
New	U15B	Public Lighting Load Profile 15 – Hours dimmed to 67% between midnight and 06.00	15
New	U16A	Public Lighting Load Profile 16 - Hours not dimmed	16
New	U16B	Public Lighting Load Profile 16 – Hours dimmed to 50% between midnight and 06.00	16
New	U17A	Public Lighting – Load Profile 17 -Hours not dimmed	17
New	U17B	Public Lighting Load Profile 17 – Hours dimmed to 75% from 21:00 through to 07:00 next day	17
New	U18A	Public Lighting – Load Profile 18 - Hours not dimmed	18
New	U18B	Public Lighting Load Profile 18 – Hours dimmed to 67% from 21:00 through to 07:00 next day	18
New	U19A	Public Lighting – Load Profile 19 Dusk to Dawn with Extra Trimming, Hours not dimmed	19
New	U19B	Public Lighting Load Profile 19 dimmed to 50% from 21:00 through to 07:00 next day	19
New	U20A	Public Lighting – Load Profile 20- Hours not dimmed	20
New	U20B	Public Lighting Load Profile 20 – Hours dimmed to 75% from 20:00 to 22:00	20
New	U20C	Public Lighting Load Profile 20 – Hours dimmed to 50% from 22:00 to 50% until 07:00 next day	20
New	U21A	Public Lighting – Load Profile 21 -Hours not dimmed	21
New	U21B	Public Lighting Load Profile 21 – Hours dimmed to 67% from 20:00 to 22:00	21
New	U21C	Public Lighting Load Profile 21 – Hours dimmed to 50% from 22:00 until 07:00 next day	21
New	U22A	Public Lighting – Load Profile 22 -Hours not dimmed	22
New	U22B	Public Lighting Load Profile 22 – Hours dimmed to 64% from 20:00 to 22:00	22
New	U22C	Public Lighting Load Profile 22 – Hours dimmed to 47% from 22:00 until 07:00 next day	22
New	U23A	Public Lighting Load Profile 23-. Hours not dimmed	23
New	U23B	Public Lighting – Load Profile 23 Hours dimmed to 64% from 20:00 to 22:00	23
New	U23C	Public Lighting – Load Profile 23 -Hours dimmed to 36% from 22:00 until 07:00 next day	23

Table 2

Current column headings in file UNMT_CUST	Revised column headings in file UNMT_CUST
MPRN	MPRN
Meter Point Status	Meter Point Status
House No	House No
street2	street2
street	street
street3	street3
street4	street4
street5	street5

City	City
Region	Region
Country	Country
De-Energised Flag	De-Energised Flag
Registration Status	Registration Status
Connection Agreement	Connection Agreement
Class	Class
MIC	MIC
Essential Plant	Essential Plant
Voltage	Voltage
MCC	MCC
Metering Class	Metering Class
Reference No	Reference No
Repetition Factor	Repetition Factor
Unmeter Type	Unmeter Type
Burn Hour Calendar	Burn Hour Calendar
Actual Wattage	Actual Wattage
Billable Wattage	Billable Wattage
Power Factor	Burn Hour Calendar_2 (Added)
GMPRN	Actual Wattage_2 (Added)
GMPRN House No	Billable Wattage_2 (Added)
GMPRN street2	Burn Hour Calendar_3 (Added)
GMPRN street	Actual Wattage_3 (Added)
GMPRN street3	Billable Wattage_3 (Added)
GMPRN street4	Power Factor
GMPRN street5	GMPRN
GMPRN City	GMPRN House No
GMPRN Region	GMPRN street2
GMPRN Country	GMPRN street
	GMPRN street3
	GMPRN street4
	GMPRN street5
	GMPRN City
	GMPRN Region
	GMPRN Country

Table 3

ROI - Market Process Diagrams – MPDs		
No Impact	No Impact	No Impact
NI - Market Procedures		
Market Process Number	Market Procedure	Affected
No Impact	No Impact	No Impact

ROI Guidance Documentation

ROI Briefing Documents

Document/Paper	Version	Affected
Aggregation Briefing Document	tbc	Yes
Downloadable Meter Point Files Guide (UNMT_CUST)		Yes

Current text will be removed :

~~40.2 Use of Load Profiles~~

~~Unmetered Load Profiles are explicitly driven by the predefined duty cycle for the site and as a result are standardised into three Load Profiles:~~

- ~~1. Unmetered Dusk to Dawn~~
- ~~2. Unmetered Dusk to Midnight~~
- ~~3. Unmetered 24 Hours~~

And will be replaced by

10.2 Use of Load Profiles

Unmetered Load Profiles are explicitly driven by the predefined duty cycle for the site and as a result are standardised into ~~seven~~ fourteen Load Profiles which are listed here with their corresponding Load Profile Code values:

10. Unmetered - Flat
11. Public lighting - Dusk/Dawn
12. Public Lighting - Dusk/Midnight

And the following text will be added:

- 13 Public Lighting - Dusk/Dawn with Extra Trimming
- 14 Public Lighting - Dusk/Dawn with Extra Trimming and 75% dimming between midnight and 06.00 hrs
- 15 Public Lighting - Dusk/Dawn with Extra Trimming and 67% dimming between midnight and 06.00 hrs
- 16 Public Lighting - Dusk/Dawn with Extra Trimming and 50% dimming between midnight and 06.00 hrs
- 17 Public Lighting - Dusk to Dawn with Extra Trimming, dimmed to 75% from 21:00 through to 07:00 next day
- 18 Public Lighting - Dusk to Dawn with Extra Trimming, dimmed to 67% from 21:00 through to 07:00 next day
- 19 Public Lighting - Dusk to Dawn with Extra Trimming, dimmed to 50% from 21:00 through to 07:00 next day
- 20 Public Lighting - Dusk to Dawn with Extra Trimming, dimmed to 75% from 20:00 to 22:00 then to 50% until 07:00 next day
- 21 Public Lighting - Dusk to Dawn with Extra Trimming, dimmed to 67% from 20:00 to 22:00 then to 50% until 07:00 next day
- 22 Public Lighting - Dusk to Dawn with Extra Trimming, dimmed to 64% from 20:00 to 22:00 then to 47% until 07:00 next day)
- 23 Public Lighting - Dusk to Dawn with Extra Trimming, dimmed to 64% from 20:00 to 22:00 then to 36%47% until 07:00 next day.

The following text will be removed in section 10.3

Both Burn Hour Calendars and Load Profiles are driven explicitly by the defined duty cycles and hence there is a one-to-one relationship between a Burn Hour Calendar and its respective Load Profile.

User and Technical Documents

Reference	Name	Version	Affected
No impact			No Impact

Part 2 - Performance and Data Changes

Market Messages volume, processing etc.	
Data	

Details of Data changes e.g. cleansing	
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Part 3 - ReMCoSG / CRU Approval		
Approved by	ReMCoSG	CRU
Comments		