Approved Profiles

Version 2.41

23 October 2024

Version control

Previous version history is in Appendix C

Version	Date amended	Comments
2.37	5 April 2023	Amendment to LGS (Local Government NZ) effective 1 April 2023. The profile reference code has been updated to LGA.
2.38	28 June 2023	Amendment to POD and PON effective 1 June 2023. The profile owner has been changed to Meridian Energy
2.39	1 June 2024	Two amendments: - Updated document to the new Authority template - Two new profiles added GSL and GFL for Genesis Energy
2.40	16 July 2024	Remove profiles NST, CST, and SST at the owner's request (end dated 31 July 2024)
2.41	23 October 2024	Four new profiles added EEN, EES, EIN, EIS effective 1 November 2024 for Ecotricity

1. Overview

This information paper provides information on the current list of approved profile codes, as detailed in the Electricity Industry Participation Code 2010 (Code).

Approved profile codes are used for classifying electricity consumers with similar consumption patterns.

The general approach set out in this information guide in no way reduces the requirement upon participants to know and comply with their obligations under the Code. Neither should it be interpreted as reflecting the Electricity Authority's (Authority) view on the Code.

Glossary of abbreviations and terms

Authority	Electricity Authority
Code	Electricity Industry Participation Code 2010

Contents

2. Introduction

1. The Code provides that all profiles must be approved and published by the Authority.[1]

2. A profile is defined in the Code as a "fixed or variable electricity consumption pattern assigned to a particular group of meter registers or unmetered loads". Consumption pattern means the way in which total electricity use for a certain period and group of users would be allocated across half hourly time periods.

3. Schedule 15.5 of the Code contains the requirements for profiles.

4. Each approved profile must contain the following information:

   (a) the profile owner

   (b) the profile description

   (c) metering installation characteristics

   (d) the profile class

   (e) the profile reference.

5. This document contains a number of terms found in the Code. These terms are defined in Part 1 of the Code.

3. Explanation of terms

6. The "profile owner" is the legal entity that introduced the profile or is nominated to be the owner in accordance with the Code.

7. The "profile description" provides some brief details on the type of ICPs in the profile.

8. The "metering installation characteristics" includes information on what type of meter configuration that the profile can be applied to. The reference codes are as follows:

   (a) "A" means the load the profile may be applied to has no meter

   (b) "B" means the load the profile may be applied to is measured by a single register type meter

   (c) "C" means the load the profile may be applied to is measured by a multi-register type meter

   (d) "D" means the load the profile may be applied to is controlled by a control device in the metering installation

   (e) "E" means the load the profile may be applied to is not controlled by a control device.

[1] Clauses 13(5), 24 and 36 of Schedule 15.5.

9. For example, the code “B & D” would mean that the load that the profile is applied to has single register meter and the load is controlled by a control device in the metering installation.

10. The “profile classes” are explained in Schedule 15.5 Appendix 1 of the Code.

11. The “profile reference” is a unique three character alpha-numeric code assigned to the profile methodology and is used to identify the profile methodology in the settlement process.

12. Submissions to the reconciliation manager:

    (a) Profiles with profile codes starting with the letter ‘H’ must have volumes submitted to the reconciliation manager as half-hour (HHR) data files.

    (b) Profiles with profile codes starting with the any letter other than ‘H’ must have volumes submitted to the reconciliation manager as non-half hour (NHH) data files and an associated profile shape file.

4. Sources of information

13. The Code can be found on the Authority’s website at (profiles are provided for in Part 15 of the Code):

    The Code — Electricity Authority (ea.govt.nz).

14. The Reconciliation webpage on the Authority’s website (Reconciliation | Electricity Authority) and Profiling operations guidelines (Profiling Operations Guidelines)

15. If you require further assistance, please contact the Market Policy team:

    Electricity Authority
    PO Box 10041
    Wellington
    Attention: Market Policy team

    Telephone: 04 460 8860
    Fax: 04 460 8879
    Email: marketoperations@ea.govt.nz

Appendix A Table of approved profiles

Profile owner	Description	Metering installation characteristics	Profile class	Profile reference
Contact Energy	Ripple Switched 11pm to 7am plus Ripple controlled boost	B & D	1.2	E11
	Ripple Switched as variable times	B & D	1.2	E21
	Ripple Switched as variable times. Switched portion calculated	B & D/E	1.3	E24
	Ripple Switched 11pm to 7am	B & D	1.1	EO8
	Ripple Switched Night plus Ripple controlled boost 5 hours	B & D	1.2	E13
Ecotricity Limited	Half hour advanced metering	B, C, D & E	2.4	HHA
	Unmetered flat load	A & E	2.1	UFL
	Consumption profile for residential ICPs that have photovoltaics and batteries North Island	B, C, D & E	2.4	EEN
	Consumption profile for residential ICPs that have photovoltaics and batteries South Island	B, C, D & E	2.4	EES
	Generation profile for residential ICPs that have photovoltaics and batteries North Island	B, C, D & E	2.4	EIN

	Generation profile for residential ICPs that have photovoltaics and batteries South Island	B, C, D & E	2.4	EIS
Electrica Limited	Half hour advanced metering	B, C, D & E	2.4	HNL
Electricity Authority	Profile code for SB records	A	1.7	DFP
	Non-photovoltaic embedded generation	C	2.5.2	EG1
	Default profile code for HHR submissions (refer to RM functional specification)	C	1.1	HHR
	Fully metered non controlled	B & E	1.4	GXP
	Default profile for missing NHH submissions (refer to RM functional specification)	A	1.7	NHP
	Photovoltaic embedded generation	C	2.5.1	PV1
	Residual profile shape	B & E	1.4	RPS
	Unmetered load	A & E	1.5	UML
emhTrade	Pseudo half hour	B, C, D & E	2.4	HHE
	Interim synthetic half hour profile	B, C, D & E	2.4	HEM
Flick Energy Limited	NHH Half hour profile	B, C, D & E	2.4	HHY
	HHU Flick Unmetered Profile	A & E	2.3	HHU

Genesis Energy	Fully metered non controlled	B & E	1.1	EOL
	Street lighting (logger on/off recording)	A & D	2.1	GSL
	Single ICPs with flat continuous unmetered load	A & E	2.1	GFL
Giving Energy	Half hour advanced metering	B, C, D & E	2.4	HGE
King Country Energy Limited	Unmetered streetlights that share a common control system in a distribution area	A & D	2.3	KSL
Local Government NZ	CMS-monitored Streetlighting	B, C, D & E	2.1	HHS
	Static-dimmed Streetlighting	B, C, D & E	2.3	LGA
Manawa Energy	Street lighting (logger or SCADA on/off recording)	A	2.3	STL
	Centralised Monitoring System - Street Lighting	A	2.3	CMS
	Ripple Switched 23:00 - 07:00	B/C & D	1.2	C23
	Ripple Switched 24:00 - 08:00	B/C & D	1.2	C24
	Ripple Switched via Photocell	A & D	2.1	DCS
	Dairy Milking Sheds	C	2.2	DFM
	Street Lighting	A & E	2.1	HSL

	Telecom Payphones	A & E	2.1	PPD
Mercury NZ Limited	Half hour Mercury	B, C, D & E	2.4	HHM
	Ripple Switched 23:00 - 07:00	B/C & D	1.1	T07
	Ripple Switched 24:00 - 08:00	B/C & D	1.1	T08
	Ripple Switched 07:00 - 23:00	B/C & D	1.1	T23
	Ripple Switched 08:00 - 24:00	B/C & D	1.1	T24
	Ripple and Time clock Switched 9:00pm - 7:00am	C, D & C, E	1.1	TON
	Ripple and Time clock Switched 7:00am - 9:00pm	C, D & C, E	1.1	TOC
Meridian Energy	Controlled Street Lighting	A & D	2.3	DST
	Internally Switched Weekday Day 0700 to 2100	C & E	1.1.1	POD
	Internally Switched Weekday Night 2100 to 0700 and all Weekend	C & E	1.1.1	PON
	Unmetered traffic control signals	A & E	2.1	TFL
	Internally switched weekday peak 7am - 11am and 5pm to 7:30pm	C & E	1.1.4	WDP
	Internally switched weekday off-peak 11am – 5pm and 7:30pm to 9pm	C & E	1.1.4	WDO

	Internally switched weekday nights 9pm – 7am and all weekend	C & E	1.1.4	WEN
Nova Energy	Street Lighting	A & E	2.1	BSL
	Day 0700 to 2300	B, C, D & E	1.1	N8D
	Night 2300 to 0700	B, C, D & E	1.1	N8N
	Day 0700 to 2100	B, C, D & E	1.1	N0D
	Night 2100 to 0700	B, C, D & E	1.1	N0N
	Street Lighting	A & E	2.1	TSL
Opunake Hydro Limited	Advanced meters certified to HHR	B, C, D, E	2.4	UTL
Simply Energy Solutions	Advanced meters certified to HHR	B, C, D, E	2.4	SEA
	Simply Energy Residual Profile Shape	B, C, D, E	1.4	SBL
	Simply Energy Residual Profile Shape	B, C, D, E	1.4	SFI
Smart Power Ltd	Telecom Exchange - Timaru	B & E	2.4	TM1
	Telecom Exchange - Shirley (Christchurch)	B & E	2.4	TM2
	Telecom Exchange - Blenheim	B & E	2.4	TM3
	Telecom Exchange - Khandallah (Wellington)	B & E	2.4	TM4
	Telecom Exchange - Hastings	B & E	2.4	TM5

	Telecom Exchange - Ohaupo (Hamilton)	B & E	2.4	TM6
	Telecom Exchange - Otara (Auckland)	B & E	2.4	TM7
	Telecom Whisper Cabinets – Dunedin	B & E	2.4	TW1
	Telecom Whisper Cabinets – Christchurch	B & E	2.4	TW2
	Telecom Whisper Cabinets – Nelson	B & E	2.4	TW3
	Telecom Whisper Cabinets – Wellington	B & E	2.4	TW4
	Telecom Whisper Cabinets – Napier	B & E	2.4	TW5
	Telecom Whisper Cabinets – Hamilton	B & E	2.4	TW6
	Telecom Whisper Cabinets – Auckland	B & E	2.4	TW7
	Mobile phone transmitters/receivers metered	B & E	2.4	PTM
	Street Lighting with unmetered installations. Shape file based on data logger on ripple control system.	A & D	2.3	SL1
	Street Lighting with metered installations. Shape file based on data logger on ripple control system.	B & D	2.4	SL2
End of table				

Appendix B Table of approved profiles (by profile reference)

The following table is provided to assist users and is sorted alphabetically (A to Z) in the profile reference column. If there is a discrepancy between this table and Appendix A then Appendix A takes precedence.

Profile owner	Description	Metering installation characteristics	Profile class	Profile reference
Nova Energy	Street Lighting	A & E	2.1	**BSL**
Manawa Energy	Ripple Switched 23:00 - 07:00	B/C & D	1.2	**C23**
Manawa Energy	Ripple Switched 24:00 - 08:00	B/C & D	1.2	**C24**
Manawa Energy	Centralised Monitoring System - Street Lighting	A	2.3	**CMS**
Manawa Energy	Ripple Switched via Photocell	A & D	2.1	**DCS**
Manawa Energy	Dairy Milking Sheds	C	2.2	**DFM**
Electricity Authority	Profile code for SB records	A	1.7	**DFP**
Meridian Energy	Controlled Street Lighting	A & D	2.3	**DST**
Contact Energy	Ripple Switched 11pm to 7am plus Ripple controlled boost	B & D	1.2	**E11**
Contact Energy	Ripple Switched Night plus Ripple controlled boost 5 hours	B & D	1.2	**E13**
Contact Energy	Ripple Switched as variable times	B & D	1.2	**E21**
Contact Energy	Ripple Switched as variable times. Switched portion calculated	B & D/E	1.3	**E24**

Electricity Authority	Non-photovoltaic embedded generation	C	2.5.2	**EG1**
Contact Energy	Ripple Switched 11pm to 7am	B & D	1.1	**EO8**
Ecotricity	Consumption profile for residential ICPs that have photovoltaics and batteries North Island	B, C, D & E	2.4	**EEN**
Ecotricity	Consumption profile for residential ICPs that have photovoltaics and batteries South Island	B, C, D & E	2.4	**EES**
Ecotricity	Generation profile for residential ICPs that have photovoltaics and batteries North Island	B, C, D & E	2.4	**EIN**
Ecotricity	Generation profile for residential ICPs that have photovoltaics and batteries South Island	B, C, D & E	2.4	**EIS**
Genesis Energy	Fully metered non controlled	B & E	1.1	**EOL**
Genesis Energy	Single ICPs with flat continuous unmetered load	A & E	2.1	**GFL**
Genesis Energy	Street lighting (logger on/off recording)	A & D		**GSL**
Electricity Authority	Fully metered non controlled	B & E	1.4	**GXP**
emhTrade	Interim synthetic half hour profile	B, C, D & E	2.4	**HEM**
Giving Energy	Half hour advanced metering	B, C, D & E	2.4	**HGE**
Ecotricity Limited	Half hour advanced metering	B, C, D & E	2.4	**HHA**
emhTrade	Pseudo half hour	B, C, D & E	2.4	**HHE**
Mercury NZ Limited	Half hour Mercury	B, C, D & E	2.4	**HHM**
Electricity Authority	Default profile code for HHR submissions (refer to RM functional specification)	C	1.1	**HHR**

Local Government NZ	CMS-monitored Streetlighting	B, C, D & E	2.1	**HHS**
Flick Energy Limited	HHU Flick Unmetered Profile	A & E	2.3	**HHU**
Flick Energy Limited	NHH Half hour profile	B, C, D & E	2.4	**HHY**
Electrica Limited	Half hour advanced metering	B, C, D & E	2.4	**HNL**
Manawa Energy	Street Lighting	A & E	2.1	**HSL**
King Country Energy Limited	Unmetered streetlights that share a common control system in a distribution area	A & D	2.3	**KSL**
Local Government NZ	Static-dimmed Streetlighting	B, C, D & E	2.3	**LGA**
Nova Energy	Day 0700 to 2100	B, C, D & E	1.1	**N0D**
Nova Energy	Night 2100 to 0700	B, C, D & E	1.1	**N0N**
Nova Energy	Day 0700 to 2300	B, C, D & E	1.1	**N8D**
Nova Energy	Night 2300 to 0700	B, C, D & E	1.1	**N8N**
Electricity Authority	Default profile for missing NHH submissions (refer to RM functional specification)	A	1.7	**NHP**
Meridian Energy	Internally Switched Weekday Day 0700 to 2100	C & E	1.1.1	**POD**
Meridian Energy	Internally Switched Weekday Night 2100 to 0700 and all Weekend	C & E	1.1.1	**PON**
Manawa Energy	Telecom Payphones	A & E	2.1	**PPD**
Smart Power Ltd	Mobile phone transmitters/receivers metered	B & E	2.4	**PTM**
Electricity Authority	Photovoltaic embedded generation	C	2.5.1	**PV1**

Electricity Authority	Residual profile shape	B & E	1.4	**RPS**
Simply Energy Solutions	Simply Energy Residual Profile Shape	B, C, D, E	1.4	**SBL**
Simply Energy Solutions	Advanced meters certified to HHR	B, C, D, E	2.4	**SEA**
Simply Energy Solutions	Simply Energy Residual Profile Shape	B, C, D, E	1.4	**SFI**
Smart Power Ltd	Street Lighting with unmetered installations. Shape file based on data logger on ripple control system.	A & D	2.3	**SL1**
Smart Power Ltd	Street Lighting with metered installations. Shape file based on data logger on ripple control system.	B & D	2.4	**SL2**
Manawa Energy	Street lighting (logger or SCADA on/off recording)	A	2.3	**STL**
Mercury NZ Limited	Ripple Switched 23:00 - 07:00	B/C & D	1.1	**T07**
Mercury NZ Limited	Ripple Switched 24:00 - 08:00	B/C & D	1.1	**T08**
Mercury NZ Limited	Ripple Switched 07:00 - 23:00	B/C & D	1.1	**T23**
Mercury NZ Limited	Ripple Switched 08:00 - 24:00	B/C & D	1.1	**T24**
Meridian Energy	Unmetered traffic control signals	A & E	2.1	**TFL**
Smart Power Ltd	Telecom Exchange - Timaru	B & E	2.4	**TM1**
Smart Power Ltd	Telecom Exchange - Shirley (Christchurch)	B & E	2.4	**TM2**
Smart Power Ltd	Telecom Exchange - Blenheim	B & E	2.4	**TM3**
Smart Power Ltd	Telecom Exchange - Khandallah (Wellington)	B & E	2.4	**TM4**
Smart Power Ltd	Telecom Exchange - Hastings	B & E	2.4	**TM5**

Smart Power Ltd	Telecom Exchange - Ohaupo (Hamilton)	B & E	2.4	**TM6**
Smart Power Ltd	Telecom Exchange - Otara (Auckland)	B & E	2.4	**TM7**
Mercury NZ Limited	Ripple and Time clock Switched 7:00am - 9:00pm	C,D & C, E	1.1	**TOC**
Mercury NZ Limited	Ripple and Time clock Switched 9:00pm - 7:00am	C,D & C, E	1.1	**TON**
Nova Energy	Street Lighting	A & E	2.1	**TSL**
Smart Power Ltd	Telecom Whisper Cabinets – Dunedin	B & E	2.4	**TW1**
Smart Power Ltd	Telecom Whisper Cabinets – Christchurch	B & E	2.4	**TW2**
Smart Power Ltd	Telecom Whisper Cabinets – Nelson	B & E	2.4	**TW3**
Smart Power Ltd	Telecom Whisper Cabinets – Wellington	B & E	2.4	**TW4**
Smart Power Ltd	Telecom Whisper Cabinets – Napier	B & E	2.4	**TW5**
Smart Power Ltd	Telecom Whisper Cabinets – Hamilton	B & E	2.4	**TW6**
Smart Power Ltd	Telecom Whisper Cabinets – Auckland	B & E	2.4	**TW7**
Ecotricity Limited	Unmetered flat load	A & E	2.1	**UFL**
Electricity Authority	Unmetered load	A & E	1.5	**UML**
Opunake Hydro Limited	Advanced meters certified to HHR	B, C, D, E	2.4	**UTL**
Meridian Energy	Internally switched weekday off-peak 11am – 5pm and 7:30pm to 9pm	C & E	1.1.4	**WDO**
Meridian Energy	Internally switched weekday peak 7am - 11am and 5pm to 7:30pm	C & E	1.1.4	**WDP**

Meridian Energy	Internally switched weekday nights 9pm – 7am and all weekend	C & E	1.1.4	**WEN**

Appendix C Archived version control

Version	Date amended	Comments
1.0	23 February 2005	Initial guide sheet.
1.1	8 February 2006	New profiles AGE (Todd), SM1 (Meridian) and MPT (TrustPower) added to list.
1.2	08 January 2007	Rebranding, content unchanged.
1.3	13 August 2007	New Profiles TM1, TM2, TM3, TM4, TM5, TM6 and TM7 (SmartPower) added to the list.
1.4	1 June 2008	New profile TFL added to the list.
2.0	11 December 2008	Updated to reflect the Rules as at 1 November 2008. New profiles added TW1, TW2, TW3, TW4, TW5, TW6, and TW7 (Smart Power Ltd) added to the list.
2.1	17 June 2009	New profiles added PON and POD (Powershop New Zealand Limited).
2.2	12 October 2009	Amendment to TM1: location change from Gore to Timaru.
2.3	20 January 2010	Removal of the following profiles: • BCI and MXP (Meridian Energy); • ED1, ED2, ED3, EN1, EN2, EN3, ND1, ND2, ND3, NN1, NN2, NN3, NSV, SLT, WD1, WD2, WD3, WN1, WN2, WN3 (Mercury Energy).
2.4	10 February 2010	Removal of 'GXP' profile from Contact and transfer to Commission. Removal of K08, K24, KXP, R40, R62 (Contact Energy).
2.5	1 November 2010	Updated for transition to Electricity Authority and amendments to part J of the rules.
2.6	11 March 2011	New profile added E13 for Contact Energy.
2.7	17 August 2012	New profile PTM added for Smart Power.
2.8	10 May 2013	New profiles WDP, WDO, WEN (Meridian) and SL1, SL2 (Smart Power) added to list. Correction to MPT: metering installation characteristics changed from A & E to B & E.
2.9	1 May 2014	Removal of profile MPT (Stream Information)
2.10	9 June 2014	Updated Electricity Commission to Electricity Authority
2.11	30 September 2014	Addition of the following profile codes: • HHZ (Electric Kiwi) • HHY (Flick Electric Co) Removal of profile SM1 (Meridian Energy)
2.12	29 January 2015	Addition of profile HHE (emhTrade)

2.13	12 February 2015	Addition of HHA (Ecotricity Limited)
2.14	9 June 2015	Addition of HHB (Body Corporate Power)
2.15	14 September 2015	Addition of STL (Trustpower)
2.16	22 October 2015	Addition of NST, CST and SST profile codes (Genesis)
2.17	19 January 2016	Addition of N8N, N8D, N0N, and N0D (Nova Energy) Replaced Todd Energy as profile owner with Nova Energy
2.18	21 January 2016	Removal of the following profiles for Nova Energy: TD1, TD2, TD3, TD4, TD5, TD6, BOP, and AGE (effective 1 February 2016)
2.19	8 July 2016	Addition of HNL (Electrica), effective 1 August 2016
2.20	7 October 2016	Addition of SEA (Simply Energy Solutions), effective 1 November 2016
2.21	14 October 2016	Addition of UTL (Opunake Hydro Limited), effective 1 November 2016
2.22	31 October 2016	Replaced Trustpower as profile owner with Bay Energy
2.23	1 November 2016	Replaced Bay Energy as profile owner with Trustpower
2.24	28 November 2016	Addition of HGE (Giving Energy Limited), effective 1 December 2016
2.25	16 December 2016	Addition of KSL (King Country Energy Limited), effective 1 January 2017
2.26	31 January 2017	Addition of SBL (Simply Energy), effective 1 February 2017
2.27	27 February 2017	Addition of HHM (Mercury), effective 1 March 2017
2.28	1 October 2017	Addition of SFI (Simply Energy), effective 1 October 2017
2.29	30 May 2018	Addition of HEM (emhTrade), effective 1 June 2018
2.30	30 November 2018	Amendment to HHY (Flick Energy), effective 1 December 2018
2.31	28 June 2019	Addition of CMS (Trustpower), effective 1 July 2019
2.32	1 January 2020	Removal of HHB (Body Corporate Power), effective 1 January 2020
2.32	1 March 2020	Removal of HHZ (Electric Kiwi), effective 1 March 2020
2.33	12 November 2020	Addition of HHU (Flick Energy), effective 1 December 2020
2.34	1 June 2021	Addition of HHS and LGS (Local Government NZ), effective 1 June 2021
2.35	1 May 2022	Transfer of ownership from Trustpower to Mercury NZ Limited effective 1 May 2022: • T07, T08, T23, T24, TOC, TON Transfer of ownership from Trustpower to Manawa Energy effective 1 May 2022: • STL, CMS, C23, C24, DCS, DFM, HSL, PPD

2.36	30 March 2023	Addition of UFL (Ecotricity), effective 1 April 2023. Added new paragraphs for clarification: paragraph 3 (refers to Schedule 15.5) and 12 (clarifies profile codes starting with 'H'. Moved Nova Limited's section in Appendix A from the end to the alphabetical position Added Appendix B to make it easier to ensure proposed profile codes are unique.