

Portal Guide

Medium Density / High Rise Applications

Individual Metering

Volume Boundary Metering

Hybrid Metering Configuration

Information about this guide

The purpose of this guide is to inform the user how to accurately complete an application, via the Jemena gas connection portal, mygasservices.jemena.com.au for residential medium density and high rise sites which utilise the individual metering configuration.

Installation Types:

Individual Metering

This means individual Jemena metering for each apartment providing full consumer choice of Energy Retailer and pay for own usage. Depending on the type of appliance mix within the building this can be just individual Jemena gas meters or both individual Jemena gas meters and Jemena hot water meters (when a Centralised gas hot water plant is installed).

Volume Boundary Metering

This means **no** individual Jemena metering for each apartment. A single Jemena gas meter installed at the boundary of the site that has an Energy Intermediary, Energy Retailer or other acceptable arrangement in place for consumers downstream of the Volume Boundary Meter.

Hybrid Metering

This means individual Jemena **hot water metering** only for each apartment providing full consumer choice of Energy Retailer and consumers pay for their own usage when a Centralised gas hot water plant is installed. **No** individual Jemena gas meters for each apartment are provided. Apartment gas usage is via a Jemena Volume Boundary gas meter which the Body Corporate chooses an Energy Retailer and apportions costs via the Strata Unit Entitlement by-laws.

The guide shows in detail, what information is required to be entered into each field of the application and what documents should be uploaded to support the application.

Where text is in **RED**, you must provide input to these fields.

Where text is in **BLACK**, this means that these field are optional and do not require input if the information is not relevant.

Where text is in **BLUE**, do not enter anything in these fields unless otherwise instructed over the phone by Jemena staff.


Site Plan

Skip to Site Plan and Examples



New Application — Select your type of application

New Application

Please select from the following list of services


New Connection 

Detached residential premises
Gas connection for new or existing detached homes. Residential detached premises include single free standing homes and can also include a semi-detached or a duplex.

Medium density / high-rise  

Gas connection for a multi-density building or property usually on community or strata title. Includes one or more gas meters and/or hot water meters.


Commercial
All connections to commercial premises. A commercial premises is defined by the property usage and not the load. This application applies to both volume customers (annual load less than 10TJs per annum) and demand customers (annual load greater than 10TJs per annum).


Additions & Alterations 


Meter or service upgrade / downgrade
If you've recently or are about to install or remove gas appliances, you may need a different meter as the amount of gas you need might have changed.

Meter relocation
If you require a stand-by service or you're thinking of, or recently have had renovations done, you may want to have your meter moved to a new location.




Pulse counter
If your business requires real-time access to gas flow data, you may wish to connect a pulse counter to the gas meter.

Abolishment 

Decommissioning and meter removal 
Decommissioning and meter removal is the disconnection of the gas supply at the gas main and the removal of any metering equipment we've supplied. We don't remove the pipes between the gas main and the meter.

 Select this application type

Legend:

-  Must provide input to these fields
-  Optional / relevant to these fields
-  Do not enter anything unless otherwise instructed

Applicant Details

New Connection

Medium density / high-rise

1 2 3 4 Review & submit

Applicant details

Majority of this information will be pre-filled

* Title 1

* First name 2

* Last name 3

* Company name 4

* ABN / ACN 5

* Contact details

Please provide a landline number and/or mobile number.

Landline phone 9

Mobile phone 9

* Contact email 10

Registered address

* Address line 1 6

Address line 2

* Suburb 7

* Postcode 8

* State

- 1 A title must be selected
- 2 Your First Name
- 3 Your Last Name
- 4 Your Company Name
- 5 Your ABN/ACN
- 6 Your Address
- 7 Your Suburb
- 8 Your Postcode
- 9 Customers Landline and/or Mobile must be supplied
- 10 Your Email Address

Scroll Down to Next Section

Legend:

- Must provide input to these fields
- Optional / relevant to these fields
- Do not enter anything unless otherwise instructed

Customer Details

New Connection

Medium density / high-rise

1 2 3 4 Review & submit

Customer details

* Title ①

* First name ②

* Last name ③

Company name ④

ABN / ACN ⑤

* Contact details
Please provide a landline number and/or mobile number.

Landline phone ⑨

Mobile phone ⑨

* Contact email ⑩

Postal address

Address line 1 ⑥

Address line 2 ⑥

Suburb ⑦

Postcode ⑧

State ⑧

- ① A title must be selected
- ② Your First Name
- ③ Your Last Name
- ④ Your Company Name
- ⑤ Your ABN/ACN
- ⑥ Your Address
- ⑦ Your Suburb
- ⑧ Your Postcode
- ⑨ Customers Landline and/or Mobile must be supplied
- ⑩ Your Email Address

Scroll Down to Next Section

Legend:

- Must provide input to these fields
- Optional / relevant to these fields
- Do not enter anything unless otherwise instructed

Individual Metering

Medium Density / High Rise Applications

Step 1 - Site Address Details

New Connection

Medium density / high-rise



Site address details

* Premise type Medium density ⓘ 1
 High rise ⓘ

* The premises is Existing New 2

* Connection type Path valve service ⓘ 3
 Meter kit only ⓘ

* Does this premises have a street address? Yes No 4

Site address

Building or property name **Only if relevant** 5

Street number, Suffix, Lot number 6

* Street name, * Street type, Suffix 7

* Suburb **Search for Suburb in List** ⓘ 8

* State

* Postcode ⓘ 9

- 1 If the Metering requires MDL select "High Rise", If no MDL is required select "Medium Density"
- 2 Select "New" ("Existing" only for Meter upgrades)
- 3 For new sites, Path Valve Service Only This will be pre-selected
- 4 Street Number
- 5 Only if relevant
- 6 Leave Blank
- 7 Example: For Smith St, only enter Smith, then select "Street" in next box
- 8 Select Street Type (Street, Road, etc.)
- 9 Only if relevant
- 10 State and postcode fields will auto-fill when suburb is selected

Click Next at the Bottom of the Page

Legend:

- Must provide input to these fields
- Optional / relevant to these fields
- Do not enter anything unless otherwise instructed

Step 2 - Connection Details

New Connection

Medium density / high-rise

1 2 3 4 Review & submit

Connection details

* Number of dwellings 1

* Type of dwellings 2

* Type of title 3

* Connection is required from the in 4 5

* Volume boundary metering and tariff required? No Yes 6

* Individual metering required No Yes 7

* Proposed meter location 8

* When will your path valve be ready for us to connect? 8

* Hot water options 9

* Is the hot water system solar boosted? No Yes 10

- 1 Enter total number of dwellings, not including retail/commercial premises
- 2 Select dwelling type from list (Units or Townhouses/Villas)
- 3 Select title type from list (Community/Strata)
- 4 Select Location of Connection relative to Front of Site
- 5 Street name that Path Valve connection will come from i.e. Smith Street
- 6 Select "No"
- 7 Select "Yes"
- 8 Define date in which site will be ready for gas
- 9 Choose type of hot water system to be installed
- 10 Self-Explanatory

Click Next at the Bottom of the Page

Legend:

- Must provide input to these fields
- Optional / relevant to these fields
- Do not enter anything unless otherwise instructed

Step 3 - Meter Details Table

New Connection

Medium density / high-rise

Progress bar with four steps: 1, 2, 3 (highlighted), and 4 Review & submit.

The meter details table should capture only meters which customers will setup Energy accounts for.

Meters required

* Please list all meters that will be required at this site (including residential, common, and commercial meters). ⓘ

You will also need to specify the appliances that will be in use under each meter, and specify the load figures per meter.

Meter type	Quantity	Avg load per meter (MJ/hr)	Annual load per meter (GJ/yr)	Appliances (eg. cook top, oven, etc)	Meter type required	
Select... ▾	1	<input type="text"/>	<input type="text"/>	Appliances...	Gas only ▾	✕

+ Add another meter

Legend:

- Must provide input to these fields
- Optional / relevant to these fields
- Do not enter anything unless otherwise instructed

Step 3 - Meter Details (Individual HWU) Example

New Connection

Medium density / high-rise

1 2 **3** 4 Review & submit

Residential — This meter type is used to define how many meters are required for the dwellings in the development. If Centralised Hot Water and Gas Cooking/Heating is being installed “Meter Type Required” is “**Gas and Water**”. If Centralised Hot Water with electric cooktops are being installed “Meter Type Required” is “**Water Only**”. If individual hot water units are being installed “Meter Type Required” is “**Gas Only**”.

Meter type	Quantity	Avg load per meter (MJ/hr)	Annual load per meter (GJ/yr)	Appliances (eg. cook top, oven, etc)	Meter type required	
Residential	40	80		B/Point, HW	Gas and water	x 1
Common	1	80	4	Strata BBQ	Gas only	x

+ Add another meter

For Units	Meter Type	Quantity	Average Load per meter: (MJ/hr)	Annual load per meter: (GJ/yr)	Appliances	Meter Type
Input	Residential	Number of Units	80	N/A	Cooktops, Bayonet, Hot Water	Gas Only

Legend:

- 1 Must provide input to these fields
- 1 Optional / relevant to these fields
- 1 Do not enter anything unless otherwise instructed

Step 3 - Meter Details (Individual HWU) Example

New Connection

Medium density / high-rise

1 2 **3** 4 Review & submit

- Common** - This meter type is used for common area appliances, such as Pool Heater, BBQs etc.

Meter type	Quantity	Avg load per meter (MJ/hr)	Annual load per meter (GJ/yr)	Appliances (eg. cook top, oven, etc)	Meter type required	
Residential	40	80		B/Point, HW	Gas only	✘
Common	1	80	4	Strata BBQ	Gas only	✘ 1

+ Add another meter

For Common Facilities	Meter Type	Quantity	Average Load per meter: (MJ/hr)	Annual load per meter: (GJ/yr)	Appliances	Meter Type
Input	Common	Number of common points	80	4	Strata BBQ	Gas Only

If there are no common area appliances this row is not required.

Legend:

- ✘ Must provide input to these fields
- Optional / relevant to these fields
- Do not enter anything unless otherwise instructed

Step 3 - Meter Details (Centralised HWU) Example

New Connection

Medium density / high-rise

1 2 **3** 4 Review & submit

Meter type	Quantity	Avg load per meter (MJ/hr)	Annual load per meter (GJ/yr)	Appliances (eg. cook top, oven, etc)	Meter type required	
Residential	40	80		B/Point, HW	Gas and water	✘ 1
Common	1	80	4	Strata BBQ	Gas only	✘

[+ Add another meter](#)

For Units	Meter Type	Quantity	Average Load per meter: (MJ/hr)	Annual load per meter: (GJ/yr)	Appliances	Meter Type
Input	Residential	Number of Units	40	N/A	Cooktops, Bayonet, Hot Water	Gas and Water

Legend:

- ✘ Must provide input to these fields
- Optional / relevant to these fields
- Do not enter anything unless otherwise instructed

Step 3 - Meter Details (Centralised HWU) Example

New Connection

Medium density / high-rise

1 2 **3** 4 Review & submit

Meter type	Quantity	Avg load per meter (MJ/hr)	Annual load per meter (GJ/yr)	Appliances (eg. cook top, oven, etc)	Meter type required	
Residential	40	80		B/Point, HW	Gas and water	✘
Common	1	80	4	Strata BBQ	Gas only	✘ ①

[+ Add another meter](#)

For Strata BBQ	Meter Type	Quantity	Average Load per meter: (MJ/hr)	Annual load per meter: (GJ/yr)	Appliances	Meter Type
Input	Common	Number of common points	80	4	Strata BBQ	Gas Only

Click Next at the Bottom of the Page

Legend:

- Must provide input to these fields
- Optional / relevant to these fields
- Do not enter anything unless otherwise instructed

Step 3 - Upload Paperwork

New Connection

Medium density / high-rise

1 2 **3** 4 Review & submit

Upload paperwork

Please refer to the [guide for medium-density and high-rise connections](#) which has information, and additional documents that you'll need to attach to this application.

Accepted file types: .pdf, .gif, .jpg, .jpeg, .png, .tiff, .tif
File size limit: 8 MB

[+ Add files...](#)

The table below indicates the documentation required when submitting an application. The following slides show examples of these documents.

Unit Type	Documents
Individual Hot Water	<ul style="list-style-type: none">• Site plan - Detailing proposed PValve and BReg locations
Centralised Hot Water	<ul style="list-style-type: none">• Site plan - Detailing proposed PValve and BReg locations• ADG-003A - Certification of Common Factor, signed by hydraulic engineer• ADG-003B - Common Factor Estimating Sheet, with appropriate workings• Gas and Hot Water Schematic

[Back](#) Back to Connection Selection [Site Plan](#) Skip to Site Plan and Examples

Volume Boundary Metering

Medium Density / High Rise Applications

Step 1 - Site Address Details

New Connection

Medium density / high-rise



Site address details

* Premise type Medium density High rise

* The premises is Existing New

* Connection type Path valve service Meter kit only

* Does this premises have a street address? Yes No

Site address

Building or property name **Only if relevant**

Street number, Suffix, Lot number

* Street name, * Street type, Suffix

* Suburb

* State

* Postcode

- 1 Volume Boundary applications are always "High Rise"
- 2 Select "New", Existing only for Meter upgrades
- 3 For new sites, Path Valve Service Only This will be pre-selected
- 4 Street Number
- 5 Only if relevant
- 6 Leave Blank
- 7 Example: For Smith St, only enter Smith, then select "Street" in next box
- 8 Select Street Type (Street, Road, etc.)
- 9 Only if relevant
- 10 State and postcode fields will auto-fill when suburb is selected

Click Next at the Bottom of the Page

Legend:

- Red circle: Must provide input to these fields
- White circle: Optional / relevant to these fields
- Blue circle: Do not enter anything unless otherwise instructed

Step 1 - Site Address Details

New Connection

Medium density / high-rise

1 2 3 4 Review & submit

Site address details

Location details

* Nearest cross street

* The property is approx metres from the cross street

Location descriptor

1 2 3

- 1 Nearest street perpendicular to site location
- 2 Approximate distance from cross street to Path Valve Location
- 3 Which side of street is the site. i.e. North / South / East / West

Click Next at the Bottom of the Page

Legend:

- Must provide input to these fields
- Optional / relevant to these fields
- Do not enter anything unless otherwise instructed

Step 2 - Connection Details 1

New Connection

Medium density / high-rise

1 2 3 4 Review & submit

Connection details

* Number of dwellings

* Type of dwellings

* Type of title

* Connection is required from the in

* Volume boundary metering and tariff required? No Yes

Relates to a single Volume Boundary Meter for large residential medium density sites that have an Energy Intermediary Company, Energy Retailer or other acceptable arrangement in place.

This is not a boundary pressure regulator device. You can find out more by reading our [guide for medium-density and high-rise connections](#)

* Individual metering required No Yes

* When will your path valve be ready for us to connect?

- 1 Enter total number of dwellings, not including retail / commercial premises
- 2 Select dwelling type from list (Units or Townhouses / Villas)
- 3 Select title type from list (Community/ Strata)
- 4 Select Location of Connection relative to Front of Site.
- 5 Street name that Path Valve connection will come from. i.e. Smith Street
- 6 Select "Yes"
- 7 Select "One meter for whole block"
- 8 Select "No"
- 9 Specify date in which site will be ready for connection

Click Next at the Bottom of the Page

Legend:

- Must provide input to these fields Optional / relevant to these fields Do not enter anything unless otherwise instructed

Step 2 - Connection Details 2

New Connection

Medium density / high-rise

1 2 3 4 Review & submit

Connection details

* Hot water options ①

* Is the hot water system solar boosted? No Yes ②

Please provide other relevant details that may assist us

Click Next at the Bottom of the Page

- ① Select "Centralised Hot Water"
- ② Self - Explanatory
- ③ Provide the following information in this box:
 1. Specify make and model of Hot Water Plant. e.g. Rheem Tankpak 2 TPE09 @ 1845 MJ/h
 2. If any retail or commercial in development, specify how many and load. e.g. 2 x Retail @ 500MJ each

Legend:

- Must provide input to these fields
- Optional / relevant to these fields
- Do not enter anything unless otherwise instructed

Step 3 - Meter Details Table

New Connection

Medium density / high-rise

1	2	3	4 Review & submit
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The meter details table should capture only meters which customers will setup Energy accounts for.

Types of Meters for Individual Metering Applications are;

- **Volume Boundary Meter** — This meter is for cooking and common facilities. For this type of application the “Meter Type Required” is always “**Gas Only**”

The next slide provides an example of how to fill this table out.

Meters required

* Please list all meters that will be required at this site (including residential, common, and commercial meters). ⓘ

You will also need to specify the appliances that will be in use under each meter, and specify the load figures per meter.

Meter type	Quantity	Avg load per meter (MJ/hr)	Annual load per meter (GJ/yr)	Appliances (eg. cook top, oven, etc)	Meter type required	
Select... ▾	1			Appliances...	Gas only ▾	×

+ Add another meter

Legend:

- Must provide input to these fields ○ Optional / relevant to these fields ○ Do not enter anything unless otherwise instructed

Step 3 - Meter Details Example

New Connection

Medium density / high-rise

1 2 **3** 4 Review & submit

Meters required

Meter type	Quantity	Avg load per meter (MJ/hr)	Annual load per meter (GJ/yr)	Appliances (eg. cook top, oven, etc)	Meter type required	
Volume Boundary Meter	1			Appliances...	Gas only	✕
<input type="button" value="+ Add another meter"/>						

For VBM	Input
Meter Type:	Volume Boundary Meter
Quantity:	1
Average Load per meter: (MJ/hr)	Calculated Number
Appliances:	CHW & C/Tops
Annual load per meter: (GJ/yr)	17GJ x Number of units
	Gas Only

Legend:

- Must provide input to these fields
- Optional / relevant to these fields
- Do not enter anything unless otherwise instructed

Step 3 - Upload paperwork

New Connection

Medium density / high-rise

1	2	3	4 Review & submit
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Upload paperwork

Please refer to the [guide for medium-density and high-rise connections](#) which has information, and additional documents that you'll need to attach to this application.

Accepted file types: .pdf, .gif, .jpg, .jpeg, .png, .tiff, .tif

File size limit: 8 MB

+ Add files...

Documents

- Site plan — Detailing proposed path valve and volume boundary meter locations
- *Optional:* Gas and Hot water Schematics (This may be requested if required)

Back

Back to Connection Selection

Site Plan

Skip to Site Plan and Examples Plan

Hybrid Metering

Medium Density / High Rise Applications

Step 1 - Site Address Details

New Connection

Medium density / high-rise



Site address details

* Premise type Medium density *i* High rise *i*

* The premises is Existing New

* Connection type Path valve service *i* Meter kit only *i*

* Does this premises have a street address? Yes No

Site address

Building or property name **Only if relevant**

Street number, Suffix, Lot number

* Street name, * Street type, Suffix

* Suburb

* State

* Postcode

- 1 Volume Boundary applications are always "High Rise"
- 2 Select "New", Existing only for Meter upgrades
- 3 For new sites, Path Valve Service Only This will be pre-selected
- 4 Street Number
- 5 Only if relevant
- 6 Leave Blank
- 7 Example: For Smith St, only enter Smith, then select "Street" in next box
- 8 Select Street Type (Street, Road, etc.)
- 9 Only if relevant
- 10 State and postcode fields will auto-fill when suburb is selected

Click Next at the Bottom of the Page

Legend:

- Must provide input to these fields
- Optional / relevant to these fields
- Do not enter anything unless otherwise instructed

Step 1 - Site Address Details

New Connection

Medium density / high-rise

1 2 3 4 Review & submit

Site address details

Location details

* Nearest cross street

* The property is approx metres from the cross street

Location descriptor

1 2 3

- 1 Nearest street perpendicular to site location
- 2 Approximate distance from cross street to Path Valve Location
- 3 Which side of street is the site. i.e. North / South / East / West

Click Next at the Bottom of the Page

Legend:

- Must provide input to these fields
- Optional / relevant to these fields
- Do not enter anything unless otherwise instructed

Step 2 - Connection Details 1

New Connection

Medium density / high-rise

1 2 3 4 Review & submit

Connection details

* Number of dwellings

* Type of dwellings

* Type of title

* Connection is required from the in

* Volume boundary metering and tariff required? No Yes

* Individual metering required No Yes

* When will your path valve be ready for us to connect?

- 1 Enter total number of dwellings, not including retail / commercial premises
- 2 Select dwelling type from list (Units or Townhouses / Villas)
- 3 Select title type from list (Community/ Strata)
- 4 Select Location of Connection relative to Front of Site.
- 5 Street name that Path Valve connection will come from. i.e. Smith Street
- 6 Select "Yes"
- 7 In dropdown, select "Individual hot water meters..."
- 8 Select "No"
- 9 Specify date in which site will be ready for connection

Click Next at the Bottom of the Page

Legend:

- Must provide input to these fields Optional / relevant to these fields Do not enter anything unless otherwise instructed

Step 2 - Connection Details 2

New Connection

Medium density / high-rise

1 2 3 4 Review & submit

Connection details

* Hot water options ①

* Is the hot water system solar boosted? No Yes ②

Please provide other relevant details that may assist us

Click Next at the Bottom of the Page

- ① Select "Centralised Hot Water"
- ② Self - Explanatory
- ③ Provide the following information in this box:
 1. Specify make and model of Hot Water Plant. e.g. Rheem Tankpak 2 TPE09 @ 1845 MJ/h
 2. If any retail or commercial in development, specify how many and load. e.g. 2 x Retail @ 500MJ each

Legend:

- Must provide input to these fields
- Optional / relevant to these fields
- Do not enter anything unless otherwise instructed

Step 3 - Meter Details Table

New Connection

Medium density / high-rise

1	2	3	4 Review & submit
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The meter details table should capture only meters which customers will setup Energy accounts for.

Types of Meters for Individual Metering Applications are;

- **Residential** — This meter type is used to define how many meters are required for the dwellings in the development. For this type of application “Meter Type Required” is always “**Water Only**”
- **Volume Boundary Meter** — This meter is for cooking and common facilities. For this type of application the “Meter Type Required” is always “**Gas Only**”

The next slide provides an example of how to fill this table out.

Meters required

* Please list all meters that will be required at this site (including residential, common, and commercial meters). ⓘ

You will also need to specify the appliances that will be in use under each meter, and specify the load figures per meter.

Meter type	Quantity	Avg load per meter (MJ/hr)	Annual load per meter (GJ/yr)	Appliances (eg. cook top, oven, etc)	Meter type required	
Select... ▾	1			Appliances...	Gas only ▾	×

+ Add another meter

Legend:

- Must provide input to these fields ○ Optional / relevant to these fields ○ Do not enter anything unless otherwise instructed

Step 3 - Meter Details Example

New Connection

Medium density / high-rise

1 2 **3** 4 Review & submit

Meters required

Meter type	Quantity	Avg load per meter (MJ/hr)	Annual load per meter (GJ/yr)	Appliances (eg. cook top, oven, etc)	Meter type required	
Residential	1			Appliances...	Water only	✕
Volume Boundary Meter	1			Appliances...	Gas only	✕

+ Add another meter

For Units	Input	For VBM	Input
Meter Type	Residential	Meter Type	Volume Boundary Meter
Quantity	No. of Units	Quantity	1
Average Load per meter: (MJ/hr)	40	Average Load per meter (MJ/hr)	Calculated Number
Appliances	CHW	Appliances	C/Tops and if applicable (Pool Heater, BBQ)
Annual load per meter: (GJ/yr)	N/A	Annual load per meter (GJ/yr)	No. of Units x 1GJ + 4 GJ for each BBQ + Pool
Meter Type	Water Only	Meter Type	Gas Only

Step 3 - Upload paperwork

New Connection

Medium density / high-rise

1	2	3	4 Review & submit
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Upload paperwork

Please refer to the [guide for medium-density and high-rise connections](#) which has information, and additional documents that you'll need to attach to this application.

Accepted file types: .pdf, .gif, .jpg, .jpeg, .png, .tiff, .tif

File size limit: 8 MB

+ Add files...

Documents

- Site plan — Detailing proposed P/Valve and B/Reg locations
- ADG-003A — Certification of Common Factor, signed by hydraulic engineer
- ADG-003B — Common Factor Estimating Sheet, with appropriate workings for each hot water plant
- Gas and Hot Water Schematics

Back

Back to Connection Selection

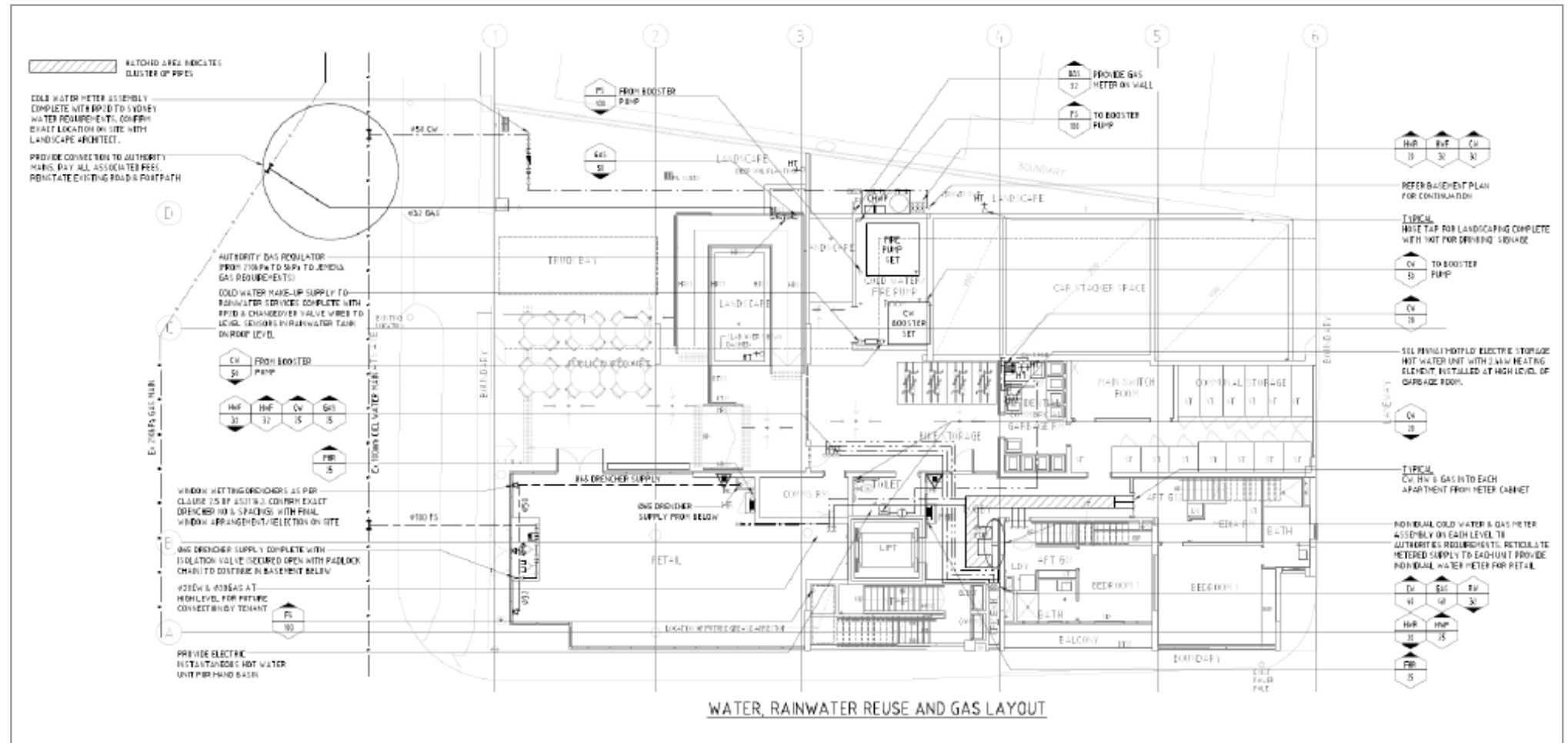
Site Plan

Skip to Site Plan and Examples

Step 3 - Site Plan

New Connection

Medium density / high-rise




Example site plan showing Path Valve and Boundary Regulator location.

Step 3 - ADG-003A

New Connection

Medium density / high-rise

1	2	3	4 Review & submit
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**ADG-003A
CERTIFICATION OF COMMON FACTOR**

RGS NUMBER

- Where a Gas Centralised Hot Water System (GCHWS) is proposed, as a condition of connection, this form is to be completed by the Owner-Developer to confirm appropriate thermal efficiency design for the proposed GCHWS has taken place. This document is to be read with reference to Jemena Gas Networks (NSW) Ltd document, ADG-003 "Design Guide for Gas Centralised Hot Water Systems".
Refer, www.jemena.com.au/connectionguides/
- Jemena reserves the right to decline the application if any information provided is incomplete or incorrect.
- Completion of this application form does not guarantee that Jemena will make an offer for connection.
- Any offer for gas connection is subject to the terms and conditions of the applicable Jemena connection offer.

STEP 1. Fill in the Jemena Reference Number (RGS) in the top right hand corner as provided by your Network Development Manager.

STEP 2. Complete the builder / developer details and the supply address details below.

BUILDER / DEVELOPER
COMPANY NAME _____
COMPANY ADDRESS _____
CONTACT OFFICER _____ PH / MOB: _____

SUPPLY ADDRESS
NUMBER _____ STREET _____
SUBURB _____ P/CODE _____ COUNCIL _____

STEP 3. Designer to certify that an appropriate thermal design process for proposed GCHWS has been undertaken and that the system is designed to meet the minimum performance standards specified in ADG-003 Design Guide for Gas Centralised Hot Water Systems at appropriate design conditions:

q SEE ATTACHED CALCULATION OF COMMON FACTOR FOR GAS CENTRALISED HOT WATER

DESIGNER'S NAME / POSITION / COMPANY : _____ / _____ / _____

DESIGNER SIGNATURE _____ DATE _____

DESIGNER CONTACT : TELEPHONE (W): _____ (MOBILE): _____ FAX: _____

STEP 4. Facsimile or mail this form and attachments back to your Network Development Manager.

OFFICE USE ONLY

Designer Confirmation Noted _____ Date _____
Application for Meters (ADG-002A) Received _____ Date _____
Meter Costs Entered into RGS _____ Entered By _____

This is an example of the ADG-003A document.

Step 3 - ADG-003B

New Connection

Medium density / high-rise

1	2	3	4 Review & submit
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ADG-003B - DESIGN GUIDE - MODEL FOR ESTIMATION OF COMMON FACTOR FOR GAS CENTRALISED HOT WATER SYSTEMS (GCHWS) (ISSUE 4 - 22/08/2007)

Note [1] : All cells with white backgrounds are unlocked and require designer input. All other cells are locked and cannot be changed.

DATE -	26-May-07
ADDRESS -	
NUMBER OF APARTMENTS -	40
SPECIFY PROPOSED BOILER PLANT HERE -	
GCHW THERMAL EFFICIENCY	80.00%
BOILER MAINTENANCE RATE (MJ/DAY)	19.6
TEMPERATURE RISE (°C)	50

[A] HOT WATER AND ENERGY DEMAND SECTION

Table A.1 - Calculation of Number of Points from Inputted Apartment Details

APARTMENT DWELLINGS	KITCHEN	BATH ROOM	LAUNDRY	EN-SUITE	DISH WASHER	NO. OF BEDROOMS	SUM OF POINTS / UNIT	NO OF UNITS	SUM OF POINTS
10	1	1	1	0	1	1	5	10	50
20	1	1	1	1	1	2	7	20	140
10	1	1	1	1	1	3	8	10	80
0	0	0	0	0	0	5	5	0	0
0	0	0	0	0	0	0	0	0	0
								TOTAL NO. OF POINTS=	270

Table A.2 Calculated Nominal Hot Water Flow (at 65deg.C Before Mixing With Cold Water) and Equivalent Energy Content

TOTAL NO. OF POINTS	CALCULATED COINCIDENCE FACTOR	HOT WATER POINT DELIVERY (lit./min/point)	MAX. WATER DELIVERY FROM BOILER (lit/min)	AVERAGE HOT WATER SUPPLY FROM HOURLY RECOVERY RATE FROM GCHWS (lit/hr)	SPECIFY DAILY HOT WATER DEMAND PER APARTMENT (lit/apart./day)	CALCULATED DAILY HOT WATER (65°C) DEMAND (lit/day)	ENERGY REQUIRED TO HEAT 1.0 LITRE WATER TO TEMP (MJ/lit)	GAS ENERGY INPUTED TO BOILER FOR WATER CONSUMED (MJ/day)
270	0.166	4.56	204.4	3,066	110	4,400	0.262	1,151

This is an example of how the ADG-003B should be filled out.

Part 1 of 3.

Step 3 - ADG-003B

New Connection

Medium density / high-rise

1	2	3	4 Review & submit
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[B] HEAT LOSS AND GAIN SECTION

Table B.1 PIPEWORK HEAT LOSSES						
PIPE SIZE	INSULATION THICKNESS (mm)	" 65 °C HOT WATER / 15 deg.C AMBIENT with Thermotec 4 zero insulation")	" 50 °C TEMPERED WATER System/ 15deg.C AMBIENT with ARMAFLEX insulation")	INPUT LENGTH OF PIPE HERE	UNIT HEAT LOSS FOR COLUMN <F>	UNIT HEAT LOSS FOR COLUMN <G>
(mm OD)	<Nominate insulation type here>	(kJ/H/m)	(kJ/H/m)	(m)	(kJ/H)	(kJ/H)
15	nil	112.3	50.4	0	0.0	0.0
15	20	31.7	19.1	23	729.1	439.3
15	25	25.2	16.9	95	2,394.0	1,605.5
20	nil	144.7	78.5	0	0.0	0.0
20	20	36.6	25.9	0	0.0	0.0
20	25	31.3	22.7	295	9,233.5	6,696.5
25	nil	177.1	97.9	0	0.0	0.0
25	20	40.3	28.4	0	0.0	0.0
25	25	37.4	25.2	98	3,665.2	2,469.6
32	nil	218.2	124.9	0	0.0	0.0
32	20	47.5	32.2	0	0.0	0.0
32	25	41.8	28.1	65	2,717.0	1,826.5
40	nil	258.1	149.0	0	0.0	0.0
40	20	58	36.4	0	0.0	0.0
40	25	50.8	31.1	18	914.4	559.8
50	nil	324.7	200.2	0	0.0	0.0
50	20	64.1	44.6	0	0.0	0.0
50	25	58	38.5	20	1,160.0	770.0
65	nil	372.9	262.6	0	0.0	0.0
65	20	71.6	54.7	0	0.0	0.0
65	25	64.4	46.4	8	515.2	371.2
80	nil	439.6	313.6	0	0.0	0.0
80	20	85.3	63	0	0.0	0.0
80	25	76.3	49.7	0	0.0	0.0
100	nil	590.1	398.2	0	0.0	0.0
100	20	106.2	76.3	0	0.0	0.0
100	25	88.9	59.2	0	0.0	0.0
Total Central Hot Water Piping Heat Loss (MJ/H) =					21.3	14.7
Total Central Hot Water Piping Heat Loss (MJ/day) =					511.9	353.7

Table B.2 OTHER HEAT LOSSES	
HW METER LOSS @ 0.1MJ/hr PER Meter (MJ/day)	98.4
BOILER MAINTENANCE RATE (MJ/day)	19.6

This is an example of how the ADG-003B should be filled out.

Part 2 of 3.

Step 3 - ADG-003B

New Connection

Medium density / high-rise

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Table B.3 ENERGY GAINS FROM AUGMENTATIONS (MJ/day)							
SOLAR THERMAL PANELS (MJ/day)	define panels and config				0.0		
TOTAL ENERGY AUGMENTATION					0.0		

[C] HEAT CALCULATIONS AND COMMON FACTOR							
	CONSUMED HOT WATER ENERGY (MJ/day)	BOILER MAINTENANCE AND METER/VALVE LOSSES (MJ/day)	LOSSES FROM CHWP MANIFOLD (MJ/day)	HEAT GAINS FROM AUGMENTATION (MJ/day)	TOTAL ENERGY	COMMON FACTOR (MJ/lit)	GENERALISED COMMON FACTOR (kJ/lit/deg.C)
COLUMN <F> INSULATION	1,151.4	118.0	511.9	0.0	1,781.3	0.40	8.1
COLUMN <G> INSULATION	1,151.4	118.0	353.7	0.0	1,623.1	0.37	7.4

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Part 3 of 3.

Contact Information

If it is unclear from this guide what is expected for Medium Density/High Rise applications, please contact either Neale Hilton, Elle Peters or Bardia Kamalalavi for advice.

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[Back](#)

[Back to Connection Selection](#)

[Site Plan](#)

[Skip to Site Plan and Examples](#)