

# Non-urban water metering reform



Southern Basin Roadshow  
April – May 2022

# Non-urban metering - National commitment

1

# Metering is in the interests of all rural industries and the broader community



## Water sources across NSW are at increasing risk

- Increasing frequency and severity of drought across all regions - increasing demand, reducing access
- Salinity in coastal systems, overallocation and depletion of groundwater
- Population growth, subdivision and regional industry creates demand and changes who has access to water
- Managing interaction between surface and groundwater take

## Protects water users' social licence to operate

- Builds community confidence in agriculture
- Re establish trust in major irrigators, and upstream users
- Protect trust between neighbours, and amongst industry types
- Provide evidence of actual take vs normal/unusual climate and flow cycles
- Evidence that actual take is within legal and sustainable limits for each valley

## Better data, modelling and water planning

- Less reliance on estimates and assumptions for water planning and sharing
- Improve efficiency of use and allocation
- Provides options to actively manage flows, volumes and salinity in real time at local and regional level

## Effective compliance

- Accurate and timely data enables fair, well targeted and efficient enforcement
- Accounting for all take will reduce the adverse impact of available water determinations
- Enables allegations of illegal take to be assessed at first point of contact
- Faster and more effective action can be taken against water theft with stronger evidence

# What you need to do

Follow 3 easy steps to get meter ready.

1

## Check your details

### NSW Water Register

Check your licence and approval details on the [NSW Water Register](#) to see what is listed and whether there are any existing metering conditions that you need to comply with now.

### Amend your approval

WaterNSW can assist you to [amend your approval](#) if you need to update any details including the size of your installed pump or to make your work inactive.

2

## See if the rules apply

### Online metering guidance tool

Use the NSW Government's [online metering guidance tool](#) to see if, and how, the rules apply to you.



3

## Contact a DQP

### Contact a duly qualified person

If the rules apply to you, contact a duly qualified person (DQP), such as a certified meter installer (CMI) to discuss your situation.

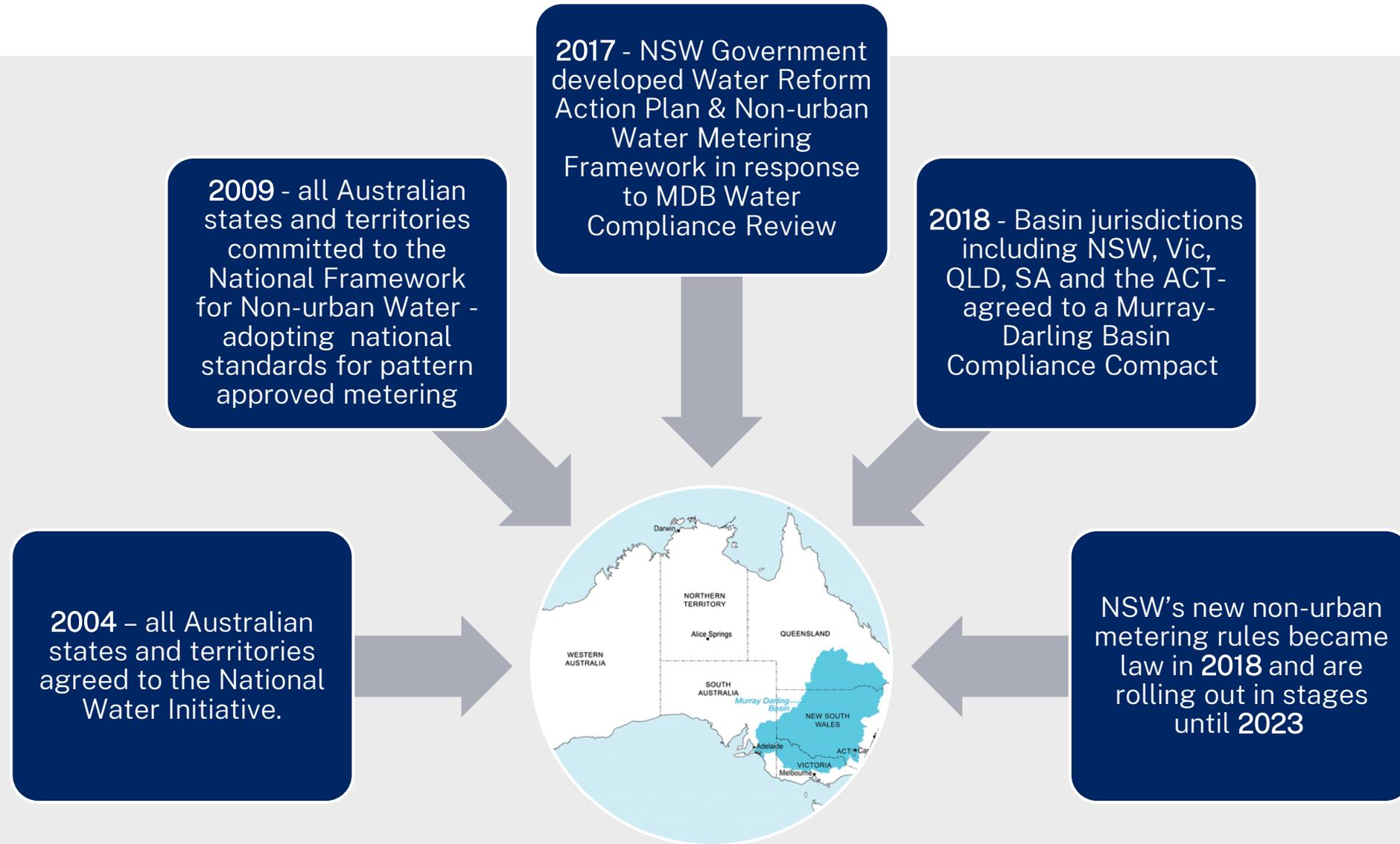
A list of DQPs can be found on [Irrigation Australia's website](#). Just click on 'Member directory' and choose the 'Meter Installer and Validator' tab to search for one near you.

# Non-urban metering – a national commitment

- In 2009 all Australian states and territories agreed on a national approach to non-urban water metering.
- NSW is the most advanced in implementing these new requirements
- NSW has the largest number of water licenses in Australia and the largest volume of water to manage.



# NSW commitment to water reform



# If we can measure it, we can better manage it

## Metering benefits:

- supports business planning and improvements, by providing water users with data in near real time.
- provides confidence in the calculation of allocation limits and supports the integrity of water accounting, trades and transfers
- helps assess how water take affects the water resource
- increases government transparency and equity in decision making
- enables better planning of water infrastructure and river operations at a local, regional and state level
- ensures water take stays within allocations and gives licensees confidence when it comes to compliance



***protects everyone's  
share in the resource***

Do the new metering  
rules apply to me?

2

# Types of water take covered under the non-urban metering policy?

The metering requirements apply to works taking water from

- regulated rivers
- unregulated rivers, and
- groundwater systems

under a **water supply works approval** or **water access licence**, where the take can be measured by a meter.



# Metering – staged rollout dates



1 December 2020	Surface water pumps 500 mm and above in NSW
1 December 2021	Northern inland NSW*
1 December 2022	Southern inland NSW
1 December 2023	Coastal NSW

Existing licence and approval conditions apply until the new compliance dates come into effect.

# What metering equipment is required under the rules?

Standards for new and replacement meters:

- Meters must be pattern-approved (unless installed before 1 April 2019)
- Installed to AS4747 & validated by a DQP
- Tamper evident seals
- Telemetry ready local intelligence device (LID)
- telemetry that connects to the NSW Government's data acquisition system (only surface pumps greater than 200mm)



# Metering thresholds

Check the mandatory conditions on your approval as they supersede the requirements in the regulations.

## Surface water

### Pumps

≥ 500 mm

Compliant meter, local intelligence device (LID) and telemetry

200-499 mm

100-199 mm

Compliant meter and LID

< 100 mm

Check multiple pump requirements

### Other works

Includes works where no size is listed

Compliant meter, LID and telemetry

## Groundwater

### Bores

≥ 200 mm

Compliant meter and LID

< 200 mm

Check multiple pump requirements

### Other works

Includes bores already required to meter

Compliant meter and LID

## At-risk groundwater sources

All works

Compliant meter and LID

# What is a pattern approved meter?



- Works captured by the metering rules will need to be fitted with a **pattern-approved meter** by the regional rollout date.
- A pattern-approved meter is a meter that has been approved by the National Measurement Institute as meeting the Australian Standard for non-urban water meters (AS4747).
- A list of devices is available on the Department of Agriculture, Water and Environment's website

[www.awe.gov.au/sites/default/files/documents/mdb-pattern-approved-non-urban-meters.pdf](http://www.awe.gov.au/sites/default/files/documents/mdb-pattern-approved-non-urban-meters.pdf)



# What is a Local intelligence Device (LID)



- A local intelligence device (LID) records information about water take and either transmits it to the NSW Government's telemetry system or allows it to be download on site.
- All meters captured under the rules must have an LID that is capable of transmitting data to the department.
- For now, the transmission of data using telemetry is only required for surface pumps greater than 200 mm.
- You can voluntarily choose to use telemetry.
- There are currently 5 local intelligence devices that have been approved for use within the non-urban metering framework.
- A list of approved devices is available on the department's website.

[water.dpie.nsw.gov.au/nsw-non-urban-water-metering/what-suppliers-of-metering-equipment-need-to-know/non-urban-metering](http://water.dpie.nsw.gov.au/nsw-non-urban-water-metering/what-suppliers-of-metering-equipment-need-to-know/non-urban-metering)

# Can I keep an existing meter?

You can keep a non-pattern approved meter that was **installed before 1 April 2019** provided:

- The meter manufacturer confirmed the meter was within +/- 2.5% accuracy **or**,
- A DQP confirms the meter is within +/- 5% accuracy in the field

The meter will also need to be fitted with a local intelligence device (LID) and tamper-evident seals

The DQP is required to submit a **report to rely on transitional arrangements** to keep existing metering equipment via the DQP portal.



What do I need to do to  
comply with the metering  
rules?

3

# What you need to do

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### Amend your approval

WaterNSW can assist you to [amend your approval](#) if you need to update any details including the size of your installed pump or to make your work inactive.

2

## See if the rules apply

### Online metering guidance tool

Use the NSW Government's [online metering guidance tool](#) to see if, and how, the rules apply to you.



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## Contact a DQP

### Contact a duly qualified person

If the rules apply to you, contact a duly qualified person (DQP), such as a certified meter installer (CMI) to discuss your situation.

A list of DQPs can be found on [Irrigation Australia's website](#). Just click on 'Member directory' and choose the 'Meter Installer and Validator' tab to search for one near you.

# DQPs – what do they do?

A duly qualified person (DQP), is a Certified Meter Installer (CMI) or a certified practising hydrographer.

Only a DQP may:

- install or re-install metering equipment
- validate metering equipment (including accuracy testing)
- certify the design of new open channel metering equipment before it is installed, and
- carry out maintenance required to be carried out by a duly qualified person under the maintenance specifications



>> DQPs can install and sign off on metering equipment on their own works by declaring it

# Information you need to give your DQP

To make the process as smooth as possible, ensure you provide the **accurate information** below to your DQP.

They will need it to set up your profile in the DQP Portal which is where they will complete and submit the forms and certificates required to show that your metering equipment is compliant with the new rules.

Work approval  
number

ESID  
(extraction site ID)

Type of LID  
(if known)

Meter details  
(size in mm and type)

To find a DQP, visit Irrigation Australia Limited's website at [irrigationaustralia.com.au](http://irrigationaustralia.com.au).

Are there any  
exemptions?

4

# Current exemptions

There are 5 exemptions that may be applied to non-urban water metering:

- Works that are not nominated against an **access licence**
- Works used solely to take water under a **basic landholder right**
- Works that have been made **inactive** (via WaterNSW)
- Works that **cannot physically comply** with the non-urban metering rules (cl 233 exemption)
- Small, low risk works used solely to take water under a **stock and domestic access licence**\*

\*Does not apply to at-risk groundwater sources

# Works that cannot physically comply

## Clause 233 exemption

Authority holders can request an exemption from the mandatory metering condition under clause 233 of the Water Management (General) Regulation 2018

Visit:

[water.dpie.nsw.gov.au/nsw-non-urban-water-metering/what-water-users-need-to-know](http://water.dpie.nsw.gov.au/nsw-non-urban-water-metering/what-water-users-need-to-know)



An exemption may only be granted when it is **not possible** for water taken using the work to be measured by compliant metering equipment.



If an exemption is granted it is likely that it will be subject to conditions that require an alternative metering or measurement method to be used.



An application form is available on the department's website with details on the requirements.

# Temporary telemetry blackspot exemption

Government's telemetry system operates on the Telstra NBIOT network, which is designed for remote applications, such as metering.

If your works are in a telemetry blackspot, you can apply for a temporary exemption.

Under the exemption you are still required to install a meter but not a data logging and telemetry device (a LID).

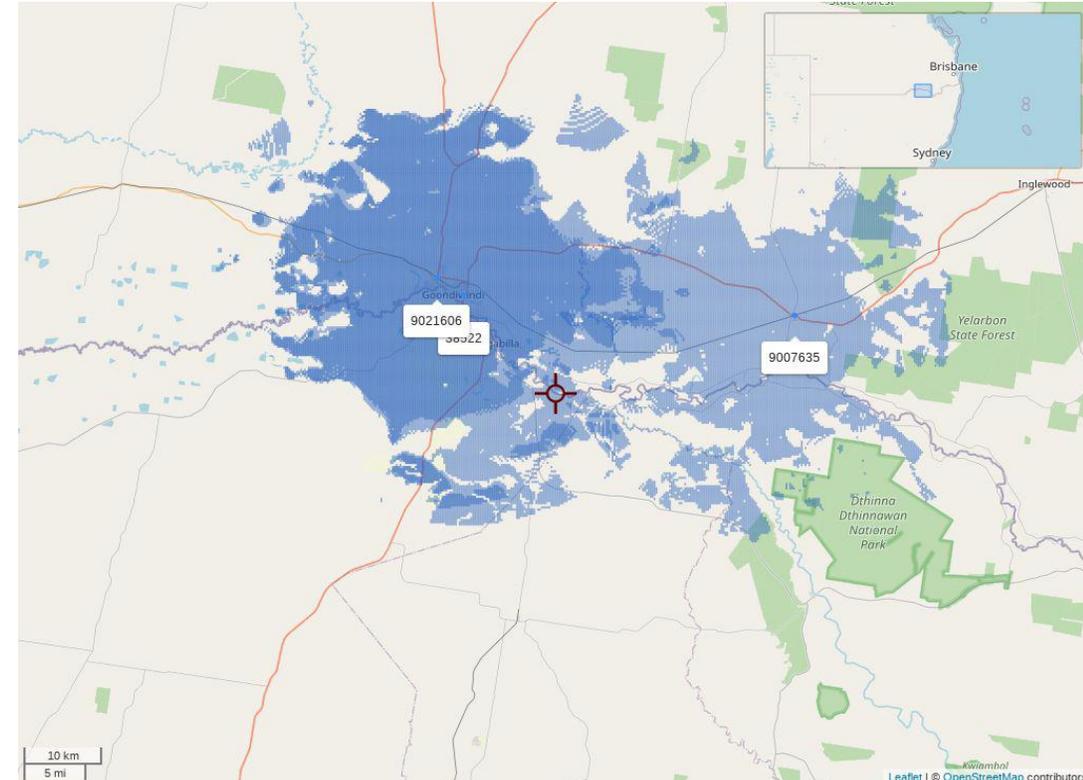
Reporting requirements still apply for meters without telemetry.

DPE-Water developed a toolkit to identify these telemetry coverage blackspots.

The telemetry exemption lapses on 23 December 2022 when it will be reviewed.

For further information go to:

[water.dpie.nsw.gov.au/nsw-non-urban-water-metering/what-water-users-need-to-know/telemetry-coverage-exemption](https://water.dpie.nsw.gov.au/nsw-non-urban-water-metering/what-water-users-need-to-know/telemetry-coverage-exemption)



Supporting programs  
and further information

5

# Programs to support uptake of metering and telemetry

The NSW and Australian Governments have funded \$36.1 million for a suite of metering programs:

- \$18 million telemetry rebate program.
- \$14.6 million government-owned meter capital upgrade program
- \$1 million program First Nations metering traineeship program
- \$2.5 million demonstration field program

These programs will commence 2021-22.



# Useful resources

We want to make it easy for you to understand how the new metering rules apply to you.

Find the below resources and other helpful information on our website: [water.dpie.nsw.gov.au/nsw-non-urban-water-metering](http://water.dpie.nsw.gov.au/nsw-non-urban-water-metering)

## [Metering guidance tool](#)

Find out how the rules apply to you



## [Metering leaflet](#)

When and what to do by your rollout date



A close-up, artistic photograph of water splashing, with many small droplets and bubbles visible against a warm, golden background. The water appears to be falling from a dark structure, possibly a fountain or a pipe.

For any other enquires please email us at:  
[metering.reform@dpie.nsw.gov.au](mailto:metering.reform@dpie.nsw.gov.au)

**Thank you**

# Non-urban metering reform



# Check your approval details on the NSW Water Register



The **NSW Water Register** provides public access to information about water licences and approvals. It's a fast and easy way look up the details and conditions of your approval.

The water register is available online at [waterregister.waternsw.com.au](http://waterregister.waternsw.com.au)

An **approval number** starts with a two-digit number, followed by a two-letter code (WA, UA, CA or FW) and then six numbers (i.e. 90WA123456)

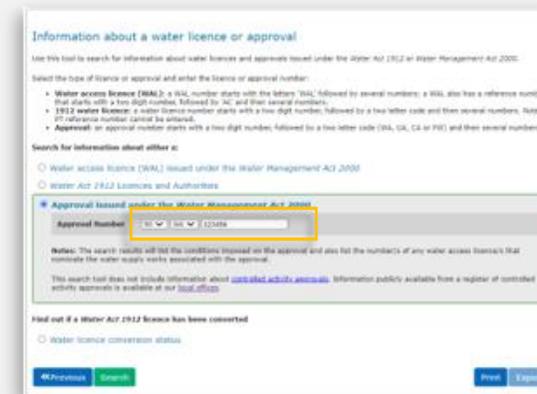
1

Select the first option '**A particular licence or approval (including conditions)**' and click 'next'.



2

Select the '**Approval issued under the Water Management Act 2000**' option and enter your approval number in the boxes.



# Understanding your work approval



A **water supply work approval** authorises its holder to construct and use a water supply work at a specified location (e.g. to install and operate a pump, dam or bore).

Below is the key information you will find about your **work approval** on the [NSW Water Register](#)

1. Kind of approval
2. Water source
3. Work type
4. Work description
5. Work diameter
6. Lot/DP location
7. Work ID number
8. ESID (extraction site ID) number
9. Water sharing plan conditions

The screenshot displays the NSW Water Register interface. At the top, the WaterNSW logo is visible. Below it, a navigation bar shows 'Home > Water Register'. The main heading is 'NSW Water Register'. A table lists work approvals with columns: Kind of Approval, Issue Date, Expiry Date, Approval Number, Status, and Water Source. The first row is 'Basic Rights' with an issue date of '07-FEB-2018', expiry date, approval number '90WA123456', status 'Current', and water source 'Lower Gwydir Groundwater Source'. Below this is another table with columns: Work Type, Description, Diameter, Status, No of Works, Location (Lot/DP), Work ID, and ESID. The first row is 'Extraction Works Gwydir' with description 'Bore', diameter '142', status 'Active', no of works '1', location 'Lot 8, DP 123456', work ID '1000123456', and ESID '123456'. Below the table is a section for 'Conditions' with a sub-section for 'Plan Conditions'. Under 'Plan Conditions', there is a 'Water sharing plan' section titled 'Gwydir Alluvial Groundwater Sources 2020'. Below that is a 'Water management works' section with three entries: MW7040-00001, MA7627-00001, and MW7053-00001, each with detailed conditions.

# Make a work inactive

If you wish, you can make your authorised **work inactive** to be exempt from the metering rules. This does not mean surrendering it.

## Make a work inactive

Complete the application form and pay the administration fee. Details are on our website at [waternsw.com.au/amendapproval](http://waternsw.com.au/amendapproval)

Once inactive, under the current regs you will not be able to use your work to take any water including basic landholder rights.

Unregulated and groundwater customers will be billed on a [one-part tariff](#) = full entitlement charge. Processing fee of \$536.44

## Make a work active again

To make a work active again, you need to submit an application, pay the application fee and provide evidence that your work adheres to the metering regulations.

Standard application processing times will apply. Processing fee of \$536.44



# Pre-existing metering conditions



## NSW Metering Guidance Tool

### 2 See if the rules apply

#### Online metering guidance tool

Use the NSW Government's [online metering guidance tool](#) to see if, and how, the rules apply to you.



**Does the work already have a condition on its approval that requires it to have a meter?**

**TIP:** If you do not know your approval conditions you can look them up for free on the NSW Water Register or contact WaterNSW at [customer.helpdesk@waternsw.com.au](mailto:customer.helpdesk@waternsw.com.au) or 1300 662 077. \*

Yes  No

#### NOTE:

Some works are already legally required to have a meter installed as a condition of an approval or licence. These works will continue to need a meter under the new metering, unless they meet the criteria for the new domestic and stock exemption.

If a work approval has a condition with one of the following reference numbers, then it has an existing metering condition.

MW3838-00001	MW2435-00001	MW7086-00001
MW0559-00001	MW3192-00001	MW7086-00002
MW7038-00001	MW7039-00001	MW7116-00001
MW7038-00002	MW7039-00002	MW2452-00001

# Why voluntarily connect to telemetry?



Water users with works **below the telemetry threshold** may choose to **voluntarily connect to telemetry** for the following reasons:



## Save time and effort

Telemetry reduces your manual recording and reporting requirements.



## Data at your fingertips

Receive a daily update of your water take from the day before.



## \$975 rebate

No ongoing telemetry service charges for the first four years as they are covered by the rebate.

### How does it work?

- IPART annual telemetry service charge of \$182 - \$226
- Credit for that amount on your WaterNSW bill each year until rebate is exhausted



Metering fact sheet: [Telemetry](#)

# What are basic landholder rights (BLR)?



There are three types of **basic landholder rights (BLR)** in NSW under the *Water Management Act 2000*:

## 1. Domestic and stock rights

**Domestic consumption**

The use of water for normal household purposes in domestic premises which are situated on the land.

**Stock watering**

The watering of stock animals being raised on the land. It does not include raising stock animals on an intensive commercial basis where the animals are housed or kept in feedlots or buildings.

2. Harvestable rights - collect a proportion of the run-off on a property and store it in one or more farm dams up to a certain size.
3. Native title rights - anyone who holds native title with respect to water, as determined under the *Commonwealth Native Title Act 1993*, can take and use water for a range of personal, domestic and non-commercial purposes.

# Recording and reporting – with a meter



		Licensed water take	Water take under BLR or licence exemption	Confirm water take according to conditions	
<b>Recording</b>	<b>Frequency</b>	Hourly	Within 24 hours after any day when water is taken	When water is taken	
	<b>How to record</b>	Automatically by LID	<a href="#">CI 244 recording BLR water take form (PDF)</a>	<a href="#">CI 244 cease to take conditions do not apply form</a>	
	<b>How long to keep records</b>	Automatically kept by LID	5 years	5 years	
	<b>Relevant regulations</b>	Schedule 8 clause 4(1)	244(2)(a) and 244(2)(c)	244(2)(b), 244(2)(c) and 244(2A)	
<b>With telemetry (1 Dec 2020)</b>					
<b>Reporting</b>	<b>Frequency</b>	Every 24 hours	Report BLR water taken monthly, within 14 days of the end of the month, If no BLR water take, zero take must be reported	Not required as data is available via LID	
	<b>How to report</b>	Automatically transmitted	<a href="#">Online reporting form</a>	N/A	
	<b>Relevant regulations</b>	Schedule 8 clause 6(3) and data logging and telemetry specifications	244(2B)	N/A	
	<b>No telemetry (1 Dec 2021)</b>				
	<b>Frequency</b>	Self-report meter readings monthly, within 14 days of end of each month Include <b>photographic</b> evidence of the meter display regardless of whether water taken	Report BLR water taken monthly, within 14 days of the end of the month	Not required as data is available via LID	
	<b>How to report</b>	<a href="#">iWAS Online reporting form</a> <a href="#">CI 244A reporting without telemetry form (PDF)</a> WaterNSW will download LID data onsite & upload into a WaterNSW data repository annually	<a href="#">iWAS Online reporting form</a> <a href="#">CI 244A reporting without telemetry form (PDF)</a>	N/A	
	<b>Relevant regulations</b>	244A(3), 244A(4)(a) and 244A(4)(b)	244(2B)	N/A	

# Recording and reporting – without a meter



		Licensed water take	Water take under BLR or licence exemption	Confirm water take according to conditions
<b>Recording</b>	<b>Frequency</b>	Within 24 hours after any day when water is taken	Within 24 hours after any day when water is taken	Within 24 hours after any day when water is taken
	<b>How to record</b>	Complete page 3 of the <a href="#">CI 250 annual recording form (PDF)</a>	Complete page 3 of the <a href="#">CI 250 annual recording form (PDF)</a>	Complete page 5 of the <a href="#">CI 250 annual recording form (PDF)</a>
	<b>How long to keep records</b>	5 years	5 years	5 years
	<b>Relevant regulations</b>	250(1)(a), 250(2A)(a), 250(2A)(b), 250(2A)(c) and 250(2C)	250(1)(b), 250(2A)(a), 250(2A)(b), 250(2A)(c)	250(1)(c), 250(2), 250(2A)(a), 250(2A)(b), 250(2A)(c)
<b>Reporting</b>	<b>Frequency</b>	Within 28 days after the end of the water year	Within 28 days after the end of the water year	This data does not need to be reported but must be kept on site for review by NRAR on request
	<b>How to report</b>	Submit pages 1 and 2 of the <a href="#">CI 250 annual recording form (PDF)</a>	Submit pages 1 and 2 of the <a href="#">CI 250 annual recording form (PDF)</a>	n/a
	<b>Relevant regulations</b>	250(2B) and 250(2C)	250(2B)	250(2B)

# Government-owned meters



WaterNSW will continue to manage the compliance and ongoing maintenance of **government-owned meters**. This includes ensuring they are **compliant by the relevant rollout dates**.

## WaterNSW's responsibilities

- ✓ Contact the government-owned meter holder in writing about the metering rules ahead of their rollout date
- ✓ Visit the site to inspect the meter if requested
- ✓ Oversee the duties of a duly qualified person (DQP)
- ✓ Ensure the meter is compliant by the rollout date
- ✓ Purchase and install a local intelligence device (LID)
- ✓ Manage all maintenance including repairs and paperwork (s91i) if the meter is faulty
- ✓ Complete annual meter inspection

## Option to transition meters to private ownership

Government-owned meter holders can decide if they want:

1. WaterNSW to maintain ownership of the meter
2. to transition the meter into their ownership and maintain it themselves.

Complete our online form to let us know if you want to take private ownership at [comms.waternsw.com.au/GOM-optout](https://comms.waternsw.com.au/GOM-optout)



**Metering fact sheet:** [Government-owned meters](#)

# Government-owned meters



500mm+ 2020

- 182 works
- **97% compliant**



Northern inland 2021

- 38 works
- **100% compliant**



Southern inland 2022

- 1,776 works

Coastal 2023

- 826 works

# Faulty metering equipment (s91i form)



You **must** report faulty metering equipment within 24 hours by completing the online **s91i form** at [waternsw.com.au/s91i](http://waternsw.com.au/s91i)

- Faulty means that the equipment is not operating properly, or is not operating at all.
- Faulty equipment must be repaired or replaced within 21 days. If more time is required, a request for an extension needs to be submitted.
- Faulty metering equipment also includes telemetry equipment.
- Once repaired or replaced, a record of water taken and evidence it has been repaired or replaced by a duly qualified person (DQP) must be submitted within 28 days.
- **Note: It is an offence under law to take water if your metering equipment is not working without a valid s91i.**

A screenshot of the "S91i SELF REPORTING FORM" displayed on a computer monitor. The form includes a "Before filling out this form we advise:" section with four bullet points: 1. Check the NSW non-urban water metering policy (PDF). 2. For information about who is a duly qualified person to make meter repairs and where to find one, go to the NSW non-urban water metering framework. 3. Please see attachment E on the Metering framework policy (PDF) for guidelines on Duly Qualified Persons to make repairs. 4. You may be required to upload photos of your metering equipment while completing this form. Below this is the "Applicants details" section with input fields for: \* Full name, Corporation name (if applicable), A.C.N. (if applicable), \* Phone, and \* Email. At the bottom of the form, there are checkboxes for: \* Is the applicant the approval holder and property owner? (YES/NO), and "Tick all that apply" (Manager or Property Manager, Lessee, Share Farmer). A yellow mouse cursor arrow points to the bottom left of the monitor.

**Metering fact sheet:** [Faulty metering equipment](#)

# Useful resources



We want to make it easy for you to find all the information you need to know in one place.

Find the below resources and other helpful information on our website at [waternsw.com.au/metering](https://www.waternsw.com.au/metering)

## Metering guidance tool

Find out how the rules apply to you



## Metering leaflet

When and what to do by your rollout date



## Metering explained guides

Fact sheet series to answer your questions and break down the information you need to know



## Compliance fact sheet

NRAR's approach to enforcing the rules



These are a combination of resources developed by the three agencies responsible for non-urban metering in NSW: The Department of Planning and Environment - Water (DPE-Water), WaterNSW and the Natural Resources Access Regulator (NRAR).

# Thank you



## Contact us

 Call us on **1300 662 077**

 Visit us at **[waternsw.com.au/metering](https://www.waternsw.com.au/metering)**

# NSW metering compliance

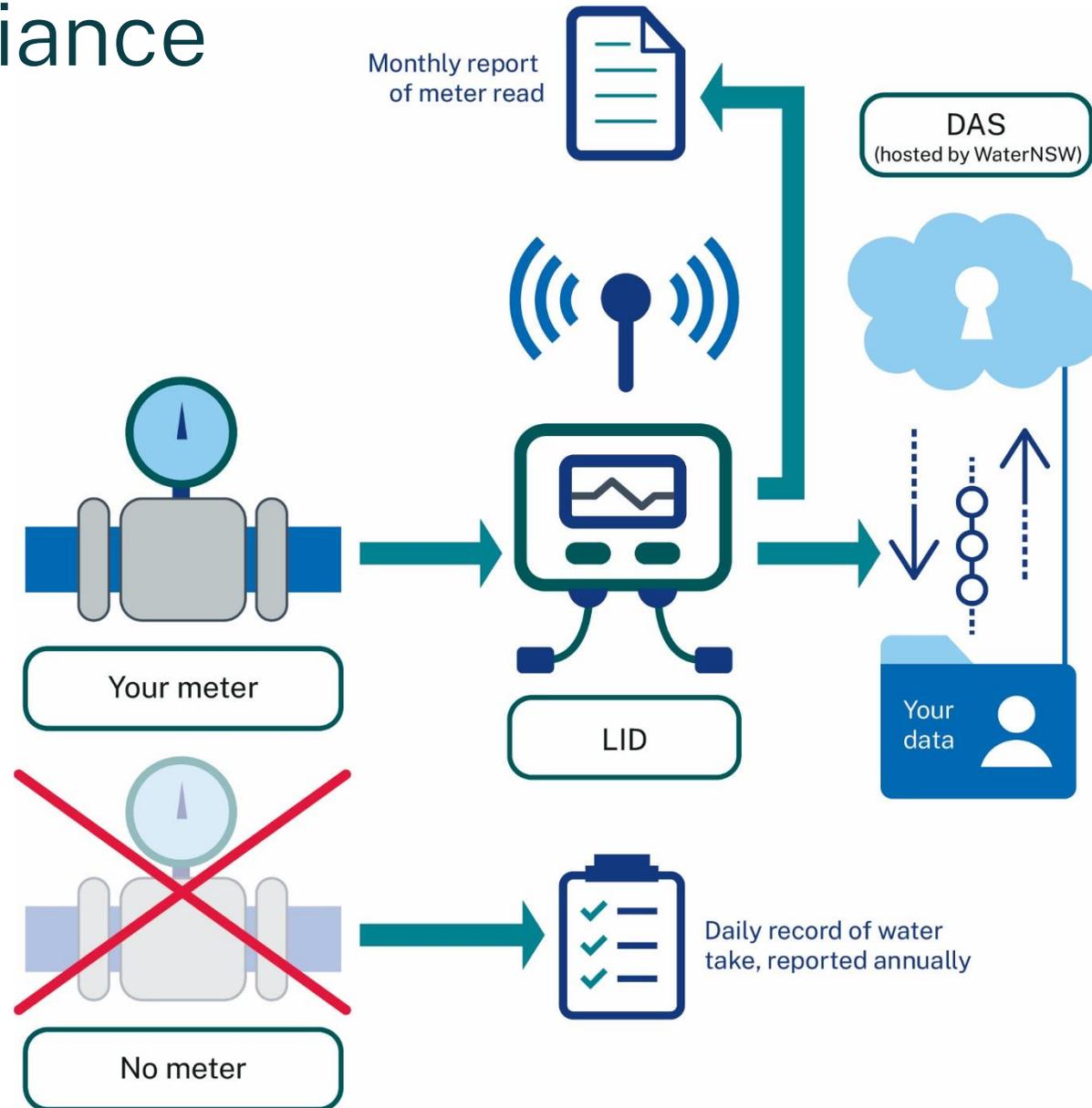
Presentation by NRAR

Greg Abood / Graeme White  
Director of Water Regulation

Natural Resources Access Regulator

00 Month 20YY

# What does compliance look like?



# We recognise alternative pathways



## Inactive works

Water users who no longer use their pumps, but might want to in the future, need to contact WaterNSW to apply to make their pump inactive using this online form [waternsw.com.au/amendapproval](http://waternsw.com.au/amendapproval)

## Keeping a meter

A manufacture certificate is required to keep an existing meter that was installed before 1 April 2019 but isn't pattern approved. Alternatively, a meter installer can field test and verify its accuracy provided. In both cases, a meter installer is required to validate the installation and fit the meter with an intelligence device.

## Connectivity issues

water users can use the department's [telemetry coverage tool](#) to check their coverage. If a water user is in a blackspot, they are eligible for a temporary exemption from the telemetry requirements. To apply for the exemption, water users can submit the report from the telemetry coverage tool to the department.

# The benefits of accurate measurement

## Water trading



- measurement is a crucial component of an effective trading scheme
- without it, there is no way of knowing whether an allocation has been used yet

## Equity gains



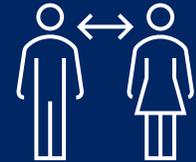
- reduction in deliberate or inadvertent water use
- Installing accurate meters and telemetry can help you reduce waste, save money and improve your yield

## Informed choices



- greater certainty about on-farm water use allows you to optimise to make more informed decisions

## Social licence



- address accusations of misuse with independent and verifiable data about your water use

# Our compliance approach



## We will:

- focus our compliance and enforcement attention on ‘high-volume’ water users who need to comply
- expect water users to have made a reasonable effort to comply before their deadline
- report periodically on the rates of compliance we observe on farm



## We won't

Focus our compliance and enforcement attention on:

- low volume, in frequent use works– we will engage them, encourage them and track their progress;
- or
- no volume works (inactive) – we support WNSW and DPE to make the tagging an inactive work process quicker & easier.





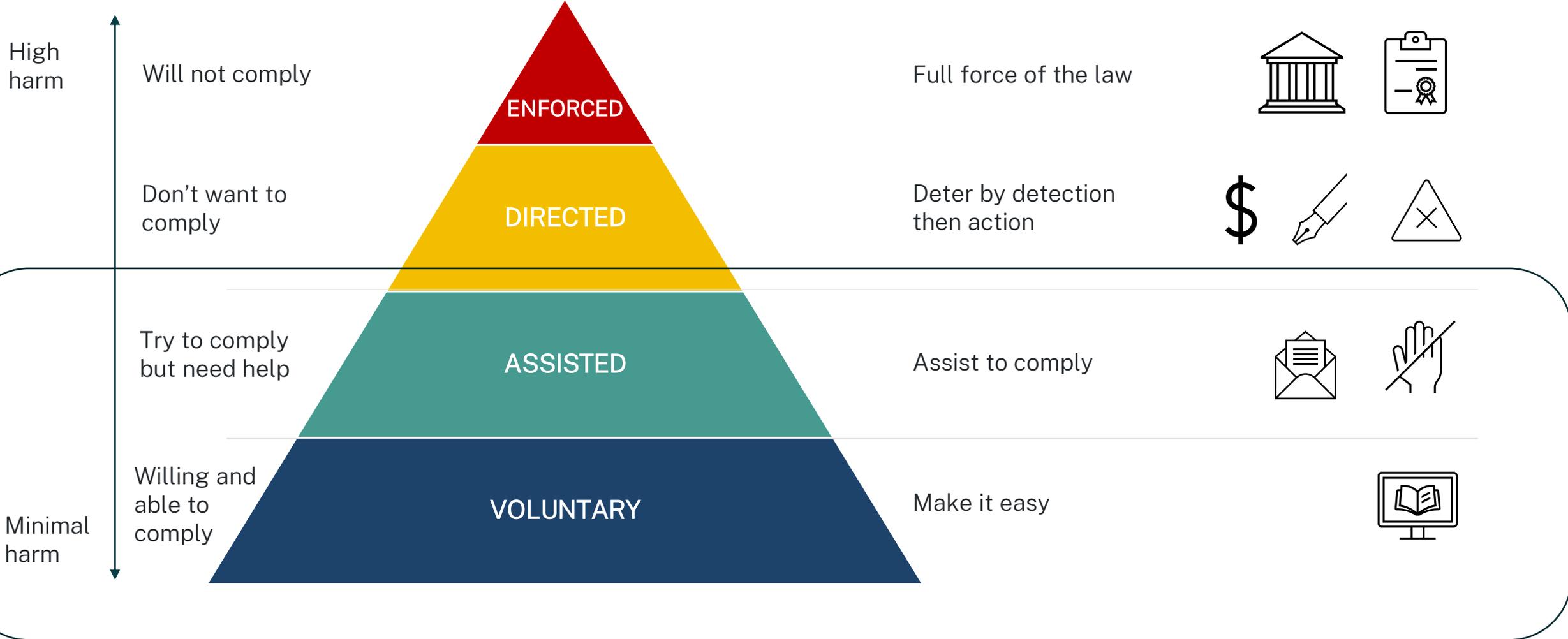
## What is a reasonable effort?

- you have the correct equipment installed
- or
- you have entered into a formal agreement with a certified meter installer
- or
- you have commenced an alternative pathway to compliance

# What happens if I don't comply?

## Impact / Attitude

## Our regulatory tools



**Actions at the top of the pyramid support actions at the bottom by clarifying expectations and demonstrating that those who don't comply will be held to account.**



# Want to know more?

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Natural Resources Access Regulator

# NSW METERING ROAD SHOW

Presented by Bryan Ward, CEO, Irrigation Australia Ltd



# Irrigation Australia Ltd



- Irrigation Australia is a member based not-for-profit association with 1100+ members in various categories
- Irrigation Australia and the National Irrigators Council (NIC) are affiliated members of each other and we support the endeavours of the NSW Irrigators Council (NSWIC) and all irrigator and water user groups

## Irrigation Australia:

- ✓ Is a Registered Training Organisation (RTO 91313)
- ✓ Trains over 600 students each year in a range of competency and non-competency programs including the new trade level – Irrigation Technician (Certificate III in Irrigation Technology - ACH32419)
- ✓ Has over 800 people registered in eleven (11) certification programs, which now includes the Certified Storage Meter Installer and Validator
- ✓ Is the Australian representative of the International Commission of Irrigation & Drainage and will host the 24th World Congress in October 2022 in Adelaide.

# Measurement of Water Take is a National Responsibility

- Measurement of water is at the very epicentre of irrigated farm management, river modelling, environmental control and measuring the impact of changes in climate

**If you can't measure it, you can't manage it!**

- States are required to implement standards for water measurement – it is not because of ABC's Four Corners program that this change is happening, but 'Pumped' highlighted the lack of progress that was being made in the implementation of the NWI by all jurisdictions
- NSW is not the only jurisdiction implementing new regulations around non-urban water metering – its just happens to be the most advanced
- Following the establishment of the Metering Expert Group in 2006, Irrigation Australia was asked by government to establish a metering training and certification program and today, over 500 CMIs/DQPs are currently in the program

- The National Water Initiative (2009) and the Murray–Darling Basin Compliance Compact (2018) **require the states and territories to implement consistent metering standards to ensure relative equity around water sharing and for protecting our scarce water resources**  
In Australia, the states and territories have the responsibility to make regulations for water resource management, including requirements for non-urban water meters
- The Metrological Assurance Framework (MAF) describes the nationally consistent compliance management approach for non-urban water meters in Australia.  
It enables greater literacy and improved transparency about meters outside of urban setting.
- The MAF provides:
  - a pathway to greater coverage of Pattern Approved non-urban water meters which comply with AS4747; and
  - a nationally consistent code for the regulation and management of non-urban water meters

Note: This MAF does not apply to meters for urban water supply.

# NATIONAL METERING FRAMEWORK

The standards were developed by a **Metering Expert Group (MEG)** in 2006 and included

- **NMI M10** The standard for meters intended for the metering of water in full flowing pipes; and
- **NMI M11** The standard for meters intended for the metering of water in open channels and partially filled pipes
- **AS4747** - the Australian Technical Standard for water meters
- These measures were adopted by industry after a **seven-week consultation period**

These issues are currently again under review in the **Metrological Assurance Framework 2**

*Irrigation Australia works within the standards as determined by the MAF and competencies as determined under the National Competency Standards Framework*

# NWI UNDERTAKINGS:

## The National Metering Framework specified that:

- implementation of national standards for meter construction, installation and maintenance;
- use of certified installers, maintainers and validators;
- requirements for compliance, auditing and reporting;
- all non-urban meters shall comply with the national metering standards by 1 July 2020, - unless otherwise exempted by the relevant jurisdictional government department or agency;
- any meter installed after 30 June 2010 must comply with the national metering standards;
- any meter installed prior to 1 July 2010 shall be replaced with a compliant meter by 1 July 2020.
  - Replacement shall be undertaken at the earliest opportunity, such as when major maintenance is required on the non-compliant meter.



# CERTIFICATION FOR IRRIGATION PROFESSIONALS

FOR ANY COMMERCIAL, RESIDENTIAL OR AGRICULTURE IRRIGATION PROJECT

APPOINT AN IRRIGATION AUSTRALIA CERTIFIED IRRIGATION DESIGNER/ PROFESSIONAL



- ✓ Certified Meter Installers and Validators have the expertise and training to correctly install meters and telemetry devices

# Become a Certified Meter Installer & Validator :

- Enrol for a Meter Validation & Installation Course
  - Virtual (online) 17 - 20 May
  - Face to Face 21 –23 June – Griffith NSW

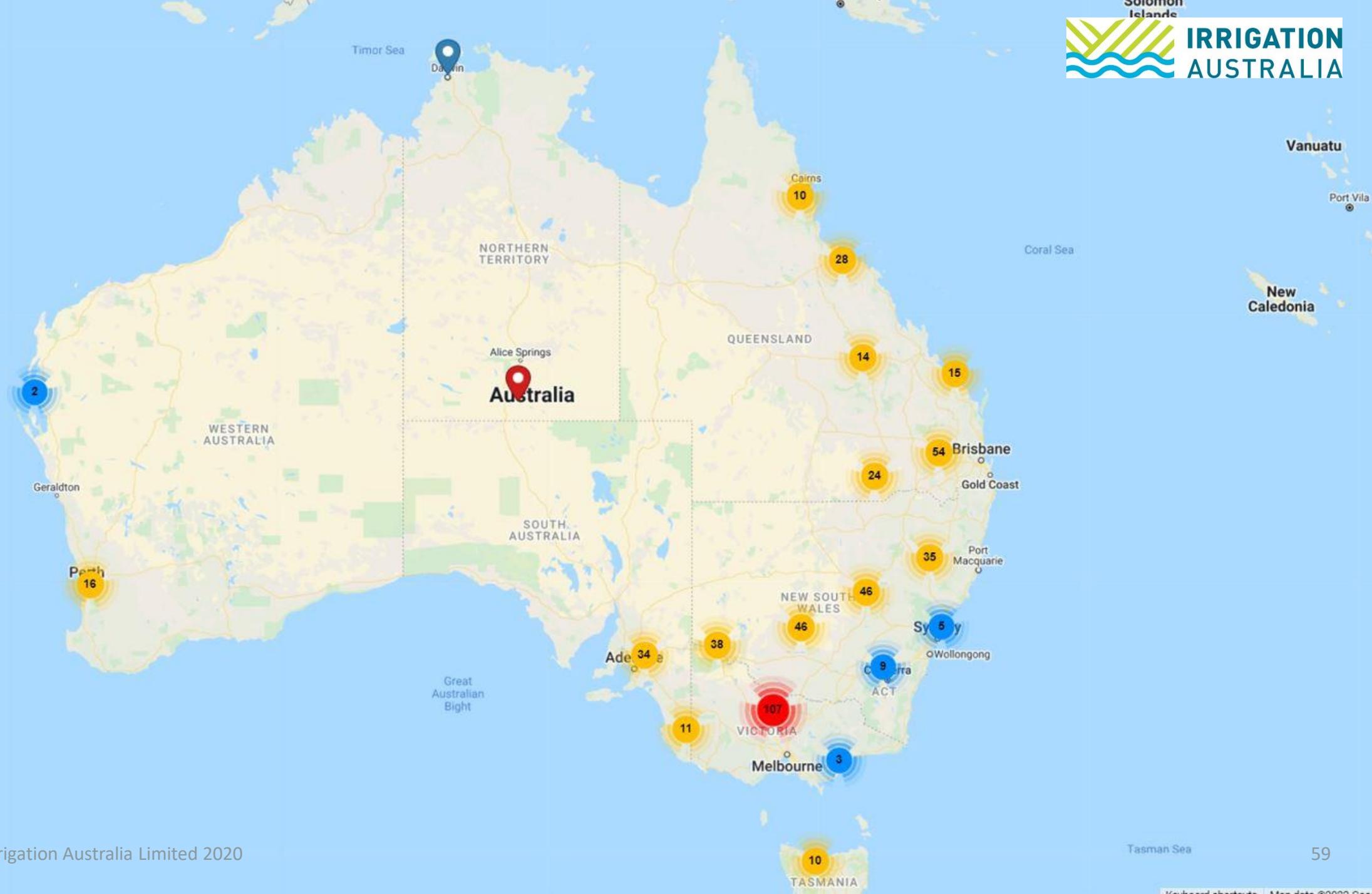
This course will provide participants with 6 units of competency towards certification for Meter Validation and Installation

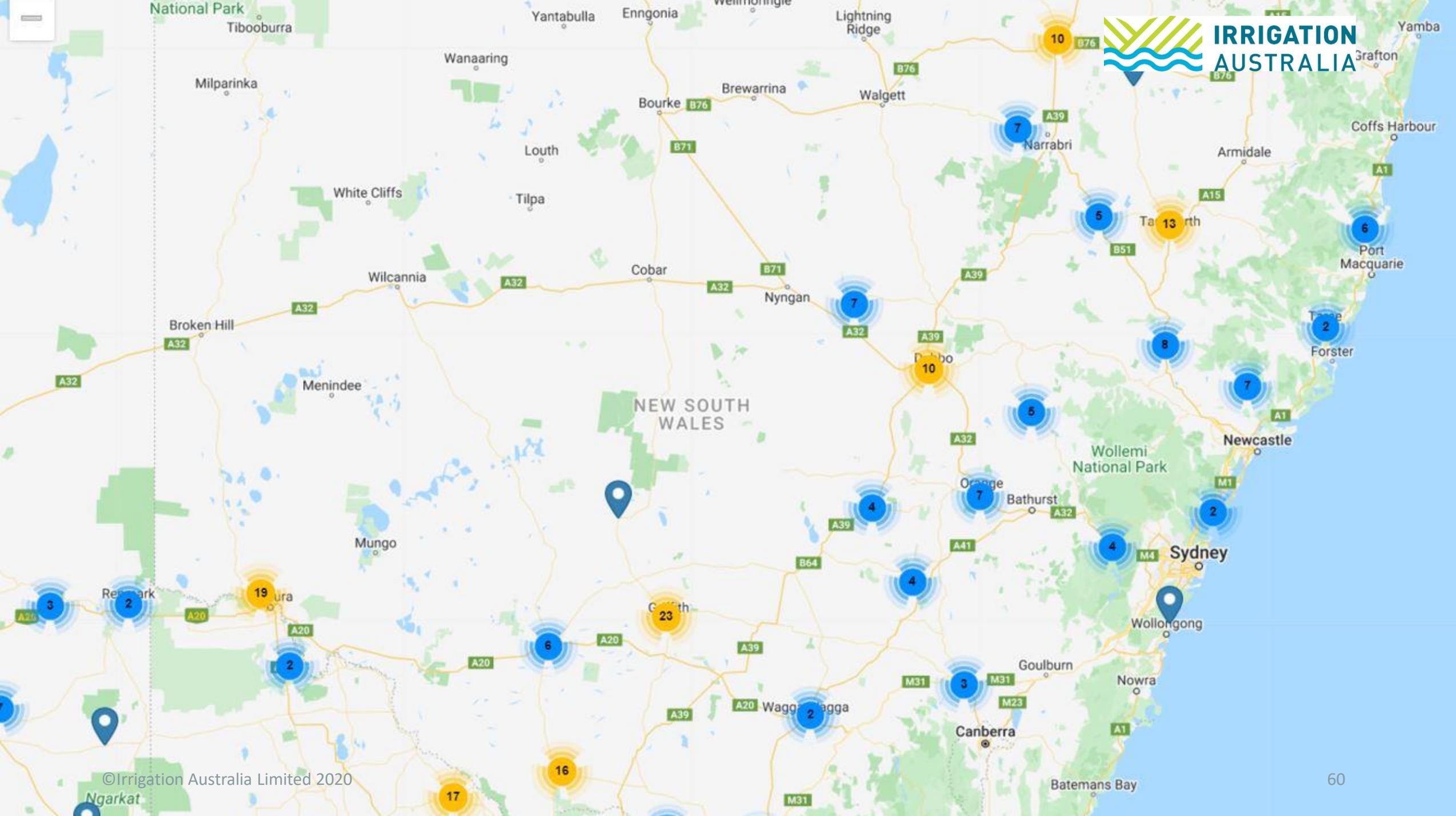
1. NWPGEN003 Apply the environmental and licensing procedures of the water industry
2. NWPNET002 Prepare and restore worksite
3. NWPNET011 Locate, identify and protect utilities
4. NWPIRR014 Install meters for rural water supplies
5. NWPIRR022 Maintain meters for rural water supplies
6. AHCWHS301 Contribute to work health and safety processes

Register at [www.irrigationaustralia.org.au/training](http://www.irrigationaustralia.org.au/training)

# CMI (DQPs) in Australia

	MAY 2021	% of Total
<b>Total CMI AUS</b>	538	100%
NSW	181	34%
VIC	138	26%
QLD	148	28%
SA	42	7%
WA	18	2.5%
TAS	10	2%
NT	1	0.5%
ACT	0	0%

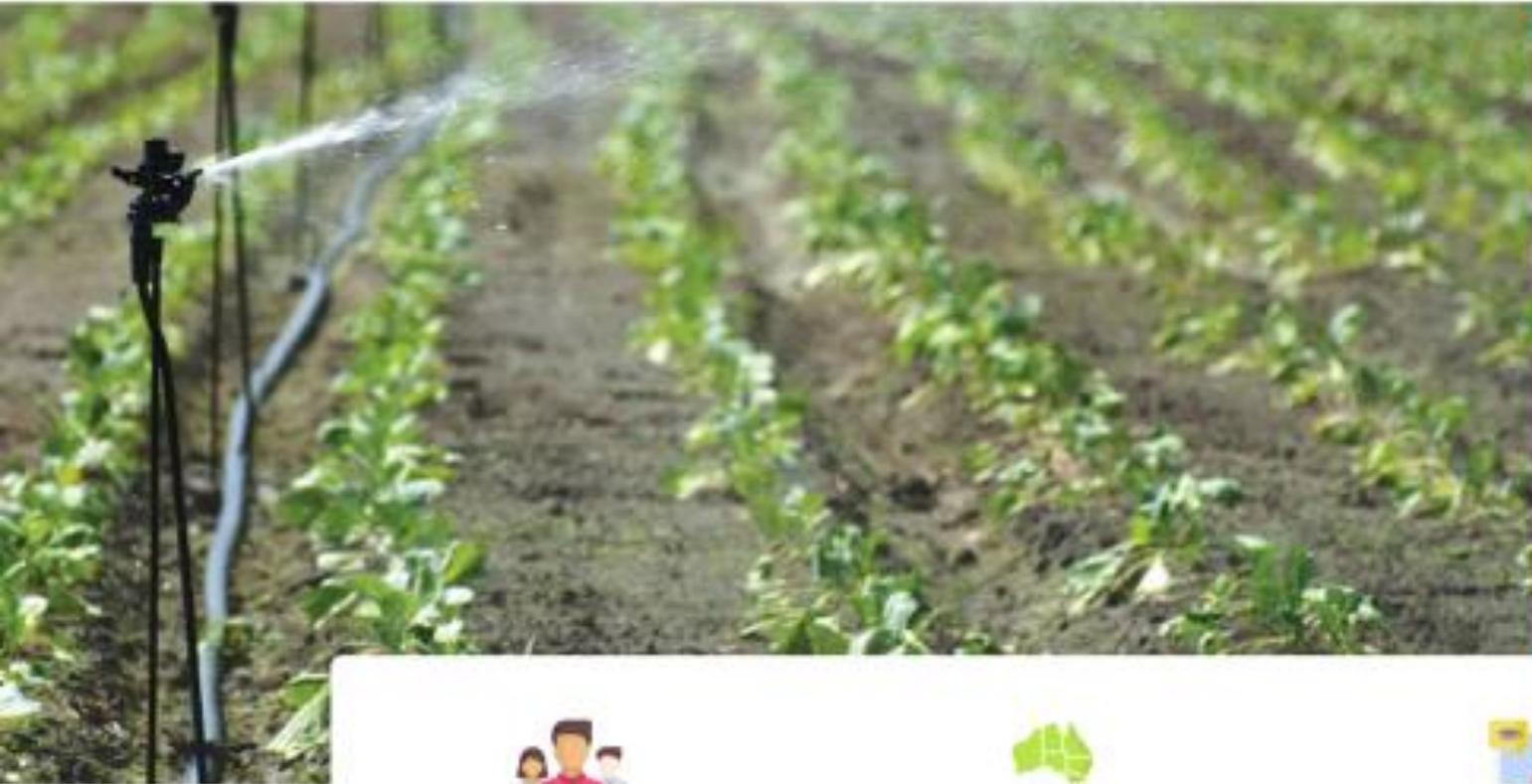




## Commercial CMIs (DQPs) in NSW

	MAY 2021	% of Total
<b>Total CMI NSW</b>	181	100%
WATERNSW	17	9.4%
MURRAY IRRIGATION	8	4.5%
MURRUMBIDGEE IR	5	3%
COLEAMBALLY	5	3%
COMMERCIAL	146	80.1%

There are approximately 40 CMIs in NSW who are completing their training and will enter the market in the next 2-3 months



## Australia's Largest Irrigation Network

The peak national organisation representing the entire irrigation industry

[Join our Association →](#)



### Membership

It pays to belong. Become a member and join our community of irrigation professionals.



### Events

Network, engage and learn from like-minded industry professionals in your area



### Training & Certification

Broaden your horizons and expand your opportunities in a growing industry



### Member Directory

Extensive directory of irrigation professionals across all disciplines in all states.



[Member Directory](#)[Certified Irrigation Designer](#)[Meter Installer and Validator](#)[Waterwise](#)

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AUSTRALIA**

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