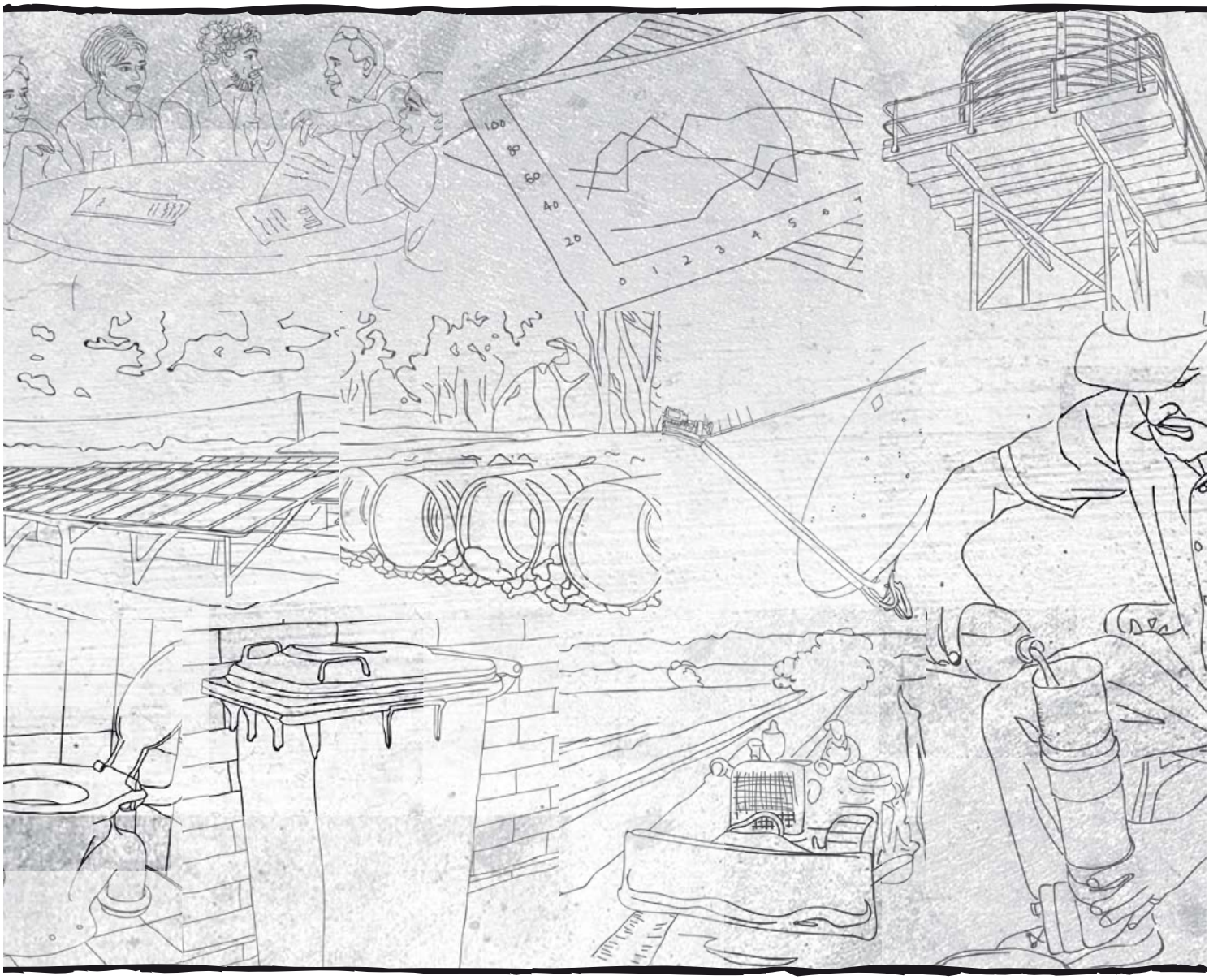
Australian Government

**Department of Families, Housing,
Community Services and Indigenous Affairs**

National Indigenous Infrastructure Guide



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ISBN 9781 921647 109

Copies of the *National Indigenous Infrastructure Guide* are available from:
Department of Families, Housing, Community Services and Indigenous Affairs
PO Box 7788
Canberra Mail Centre
ACT 2610
Telephone: 1800 050 009

The *National Indigenous Infrastructure Guide* is also available on the Department of Families, Housing, Community Services and Indigenous Affairs website: www.fahcsia.gov.au and on the Centre for Appropriate Technology website: www.icat.org.au

Compiled by the Centre for Appropriate Technology
Technical editing by Biotext

Acknowledgments

The *National Indigenous Infrastructure Guide* is the result of collaboration between the Australian Government Department of Families, Housing, Community Services and Indigenous Affairs, the Centre for Appropriate Technology (CAT), and many other organisations and individuals. Everyone involved has worked in and with communities of Indigenous people across Australia to improve access to infrastructure and essential services that underpin health, wellbeing and sustainable livelihoods.

The material in the Infrastructure Guide was compiled by staff and associates of CAT. CAT is a national Indigenous science and technology organisation working to secure sustainable livelihoods for communities of Indigenous people through appropriate technology. Professional staff from CAT's offices in Alice Springs, Cairns and Derby contributed to the Infrastructure Guide, ensuring that diverse communities, jurisdictions and climatic conditions are represented in the material.

The Infrastructure Guide was further reviewed by Indigenous and non-Indigenous contributors from government and non-government organisations and service providers operating at the national, state and local levels. These organisations included Indigenous resource agencies, engineering and other technical professionals, tradespeople and policymakers. Everyone involved has been dedicated to supporting the wellbeing of Indigenous people through the choice of appropriate technologies for the supply and maintenance of infrastructure for water, energy, transport, telecommunications and waste management. The accumulated experience of the contributors is formidable and their dedication has been invaluable.

Data and feedback collected as a result of this first edition of the Infrastructure Guide will provide valuable input for future editions and help to shape its future direction and the direction of the companion *National Indigenous Housing Guide*. The Housing Guide is already in its third edition and incorporates data reflecting the involvement of more than 25 000 Indigenous people.

The Australian Government Department of Families, Housing, Community Services and Indigenous Affairs is grateful for the time, effort and commitment of everyone who contributed to the inaugural *National Indigenous Infrastructure Guide*.

Acronyms and abbreviations

AAA	'triple A'
AAS	Australian Accounting Standards
AASB	Australian Accounting Standards Board
ABS	Australian Bureau of Statistics
AC	alternating current
ACCC	Australian Competition and Consumer Commission
ACIF	Australian Communications Industry Forum
ACMA	Australian Communications and Media Authority
ACT	Australian Capital Territory
ADSL	asymmetric digital subscriber line
AS	Australian Standards
AWT	aerated wastewater treatment
CASA	Civil Aviation Safety Authority
CAT	Centre for Appropriate Technology
CEC	Clean Energy Council
CFL	compact fluorescent light bulb
CSG	Customer Service Guarantee
DBCDE	Australian Government Department of Broadband, Communications and the Digital Economy
DC	direct current
DN	diameter nominal
DSM	demand-side management
EE	energy efficiency
ESO	essential services operator
HF	high frequency
IEC	International Electrotechnical Commission
kbps	kilobits per second
kPa	kilopascals
kW	kilowatt
kWh	kilowatt hour

LAN	local area network
LCC	life-cycle costing
L/p/d	litres per person per day
LPG	liquefied petroleum gas
Mbps	megabits per second
MOU	memoranda of understanding
NPV	net present value
NSW	New South Wales
NT	Northern Territory
NWQMS	National Water Quality Management Strategy
NZ	New Zealand
NZS	New Zealand Standards
OH&S	occupational health and safety
PIC	plastic identification code
PIN	personal identification number
PV	photovoltaic
PVC	polyvinylchloride
Qld	Queensland
RABS	Remote Area Broadcast Services
RE	renewable energy
SA	South Australia
SP	stand-alone power
SWL	standing water level
UHF	ultra high frequency
USO	Universal Service Obligation
UTP	unshielded twisted pair
UV	ultraviolet
V	volt
VHF	very high frequency
VoIP	Voice over Internet Protocol
W	watts
WA	Western Australia
WAN	wide area network

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