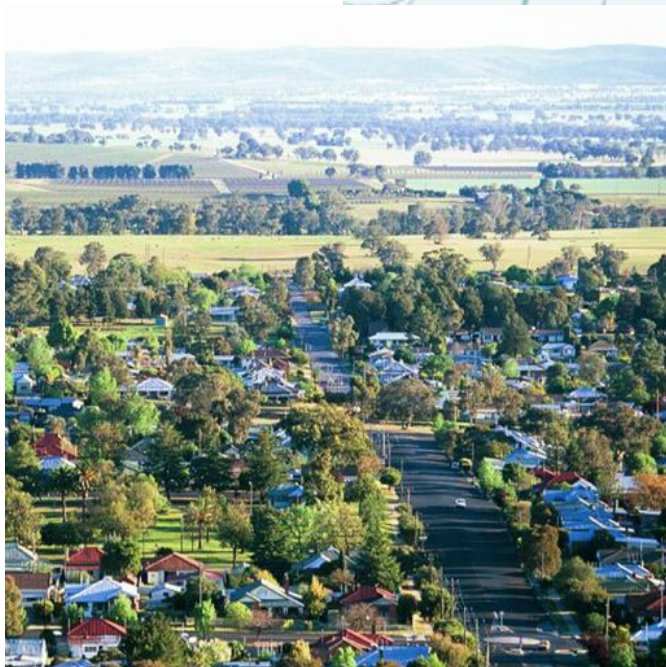




C.L.E.A.N. Cowra Inc

Energising our community to value their resources



cowratourism.com.au



abc.net.au

Cowra Central NSW -solar array

BIOMASS “abc”



AUTONOMOUS decentralised energy generation and distribution



BIOMASS as a renewable resource with proven technology options



COMMUNITY Enterprise reflective of multi-stakeholders requirements

**designing a unique model to
identify and harness local resources
to establish a circular economy for
the benefit of the local community**



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Context for Regional Sustainable Development



Aggregated
Resource

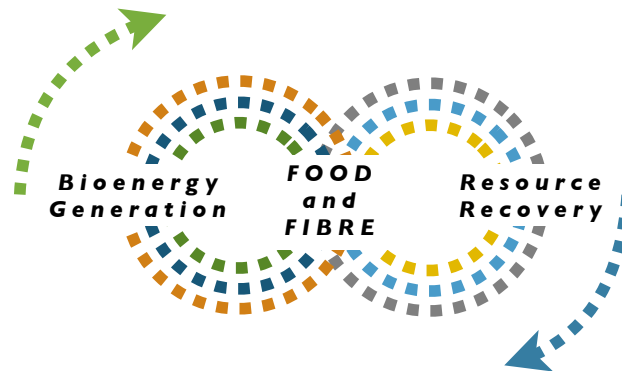
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Agriculture-
Sustainable
Production



C.L.E.A.N. Cowra Inc

Technology appropriate



<http://adnams.co.uk/wp-content/uploads/2010/01/cow.jpg>

BIOMASS Rules of Thumb

DISTRIBUTED ENERGY STAGE 1 OUTPUTs



POTENTIAL Phase **A** **2** MW
OUPUT **5800** MWh/a



Households **857**
Emissions Av. **7** tonnes
CO₂/annum



OUPUT **5800** MWh/a



4380 MWh/a



bioenergy technology- proven

> 5500 anaerobic biodigesters operating in Germany alone

BENEFITS

New jobs created with project development



Up to \$35 million
in potential infrastructure investment

Capital costs savings through collaboration

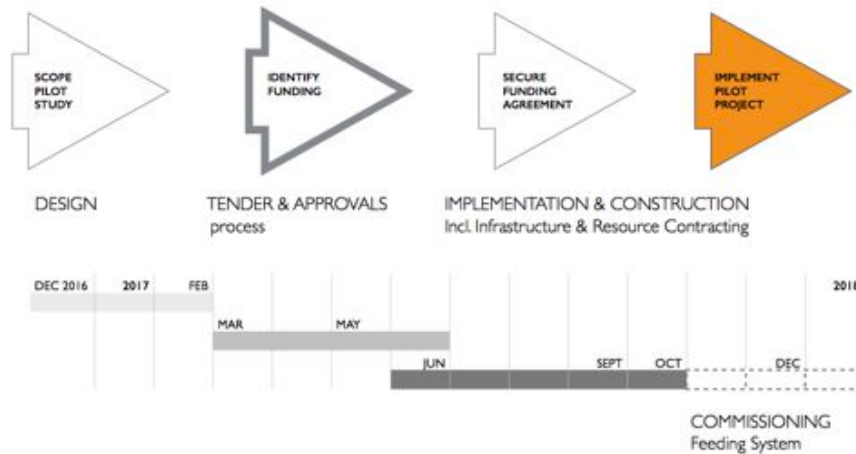


Up to 12 MW t
of renewable energy capacity

Emissions benefits re-invested in community enterprise

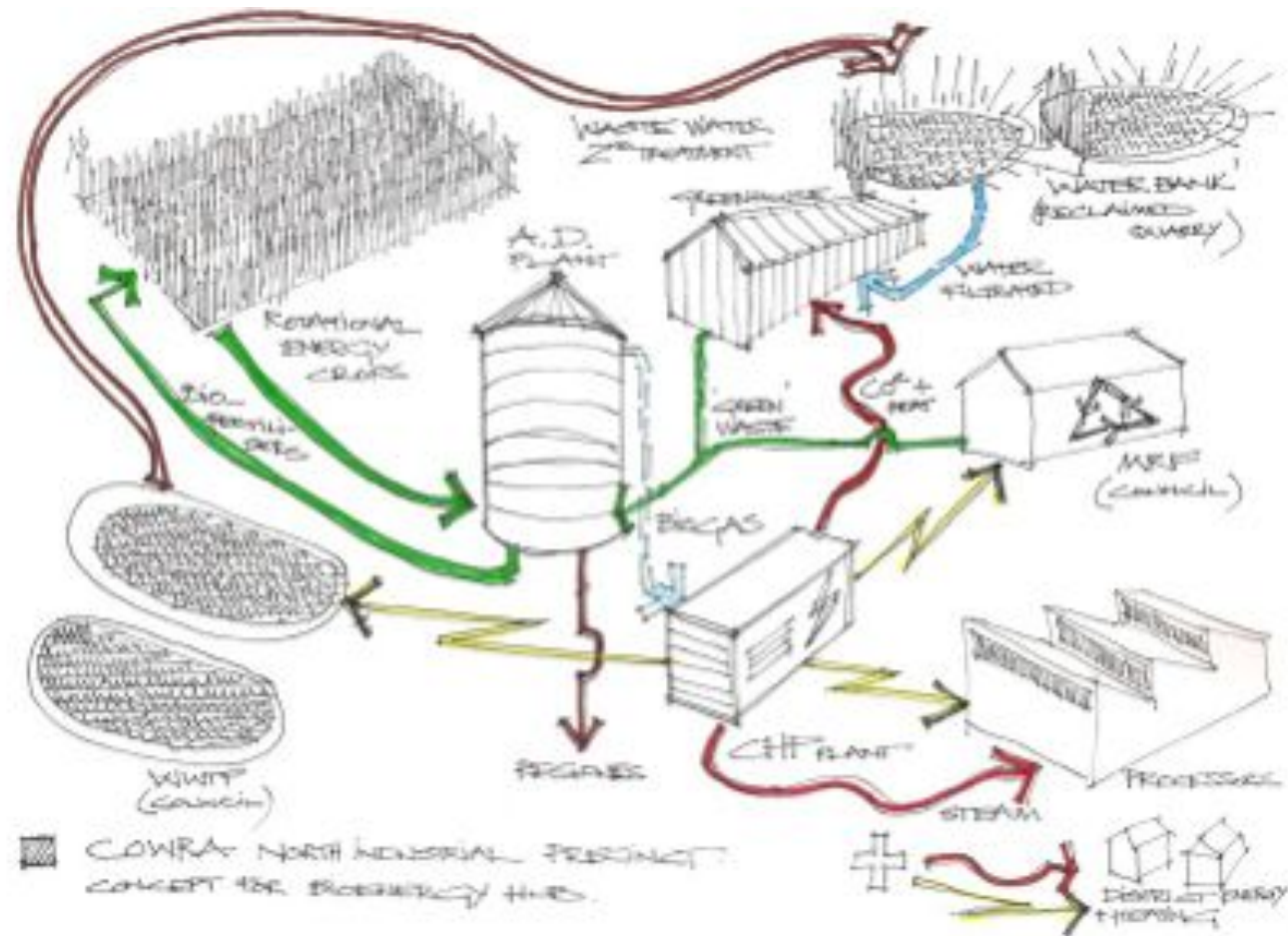


Up to 35 kilotonnes CO2/annum
Emission abatement through clean energy generation



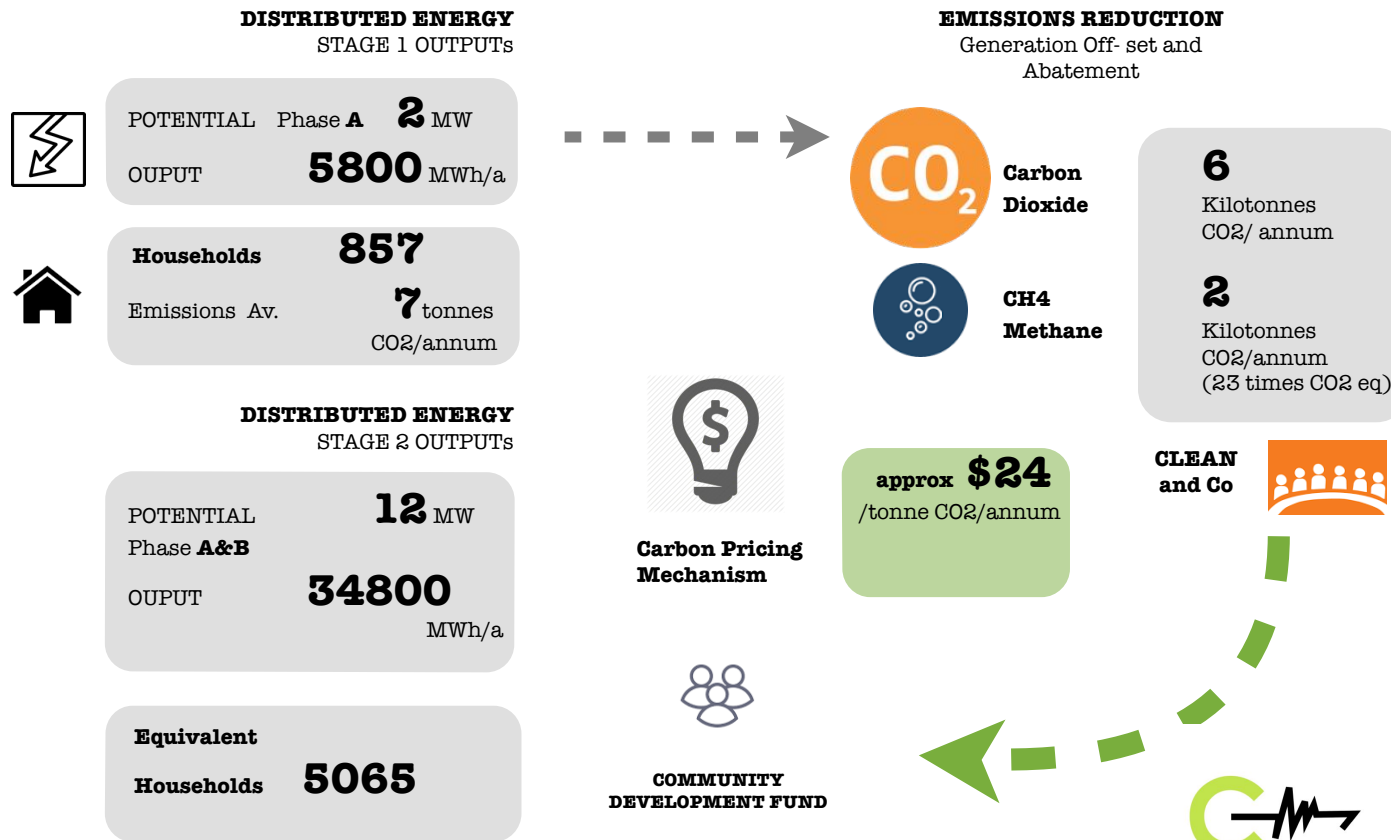
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Circular potential



Carbon outcomes

POSITIONING COWRA'S LOW CARBON FUTURE



Cowra Biomass to Energy Project Development

C.L.E.A.N. Cowra Inc

A B C trial



13th March 2017



High rate anaerobic digestion systems
Waste to energy & water recovery technology
Design — Construction — Management

- a) Aggregated feedstocks- Co-digested
- b) Biomethane Potential
- c) Compost - pasturised, high grade digestate



www.clean.org.au

bio-necessity- CORE with Base

“Bioenergy is a rural and regional solution”
Stephen Shuck Bioenergy Australia



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Cowra Low Emissions Action Network

Energising our community to value their resources



WHO



WHAT



HOW

CLEAN COLLABORATORS & CONTRIBUTORS

Promoter



C.L.E.A.N. Cowra Inc

Partners



Collaborators_ Advisory & technical



ECO WASTE .com



School of Materials Science and Engineering

Contributors_ Research

