"Critical Mass"
CLEAN Cowra Inc perspective

Regional Responses Conference_ University of Newcastle
November, 2014
profile

Cowra Low Emissions Action Network
advocating for local, community-owned, decentralised renewable energy
COWRA LEP 2012 map
Aggregated, Decentralised, Community-Based

Biomass

Off- Grid option

Localised generation
Available Regional Resources_ Biomass audit from agricultural, industry, council and community processes.

Establish quantities and quality of the feedstocks.

Heterogeneity of feedstock_ value of co-digestion

Establish value of bi-products. eg. Fertilisers / glycerine/
Decentralised

Systems Efficiency and Aggregated solutions.

Establish returns on local (Distributed) energy generation.

Availability and Scalability of technology
COWRA ENERGY HUB

COWRA NORTH INDUSTRIAL PRECINCT CONCEPT FOR BIOENERGY HUB.
Community

Complex Inter-relationship between Stakeholders

Community engagement process.

Establishment and Governance of Entity for Community involvement.
COWRA COMMUNITY INNOVATION and INDUSTRY Collaboration

COWRA COUNCIL
- Futures Forums
- NRMAC
- RESAP Action Plan
- Netwaste

CLEAN Cowra INC
- Business Development
- Infrastructure
- Project Developers
- Project Financiers

COLLABORATORS
- Business Chamber
- Sustainability Advantage
- Business / Industry
- Agriculture / Horticulture

CONSULTANTS
- REBL
- Kerry JDC
- Cowra S&G
- Palos Verdes

COMMUNITY ENTERPRISE
- Entity Structure
- Business Sustainability Model
- Scoping Document for Biomass to Products
- Regional Resource Audit / Mapping
- District Heating and Cooling
- NW Cowra Industrial Precinct
- Greenhouse
- Job creation
- Community-scaled Regional Sustainability
- Food Fuel Security

PROGRAM
- DECENTRALISED RENEWABLE ENERGY
- BIOMASS to ENERGY Project

RDA Central West
- NSW T&I
- NSW OEH
- NSW DPI
- LLS Central Tablelands

ARA

BIOENERGY AUST
- RIRDC
- CSIRO
- ARENA

ATA

Cowra Ag and Research Station
- Bioenergy Strategy
- Potential to provide research
- Potential to support funds

CROP TRIAL
- Richard Hayes

Emerging Renewable Energy
- Advocates and Policy
Circular Economy

Industrial ecology

Sustainability Advantage program

> Concept for Regional Decentralised Energy and Commodity Production
Way Forward _

Establish Roadmap and Methodology for Project development.

Scalability of Technology_ appropriate selection.

Opportunities within existing farming systems_ crop trial.

*Business Case and Feasibility model.*
bio-necessity

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