

*Starting the*

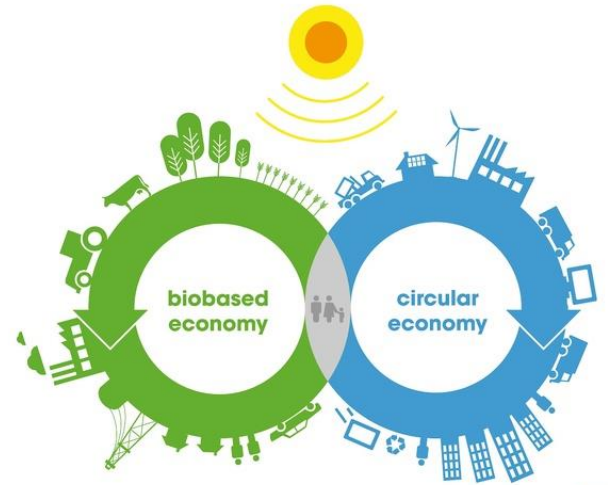
***Bioenergy***

*journey*

*Dr Chris Colby*

*Managing Director – Colby Industries Pty Ltd*

**BIO**  **economy**



# What have we learned

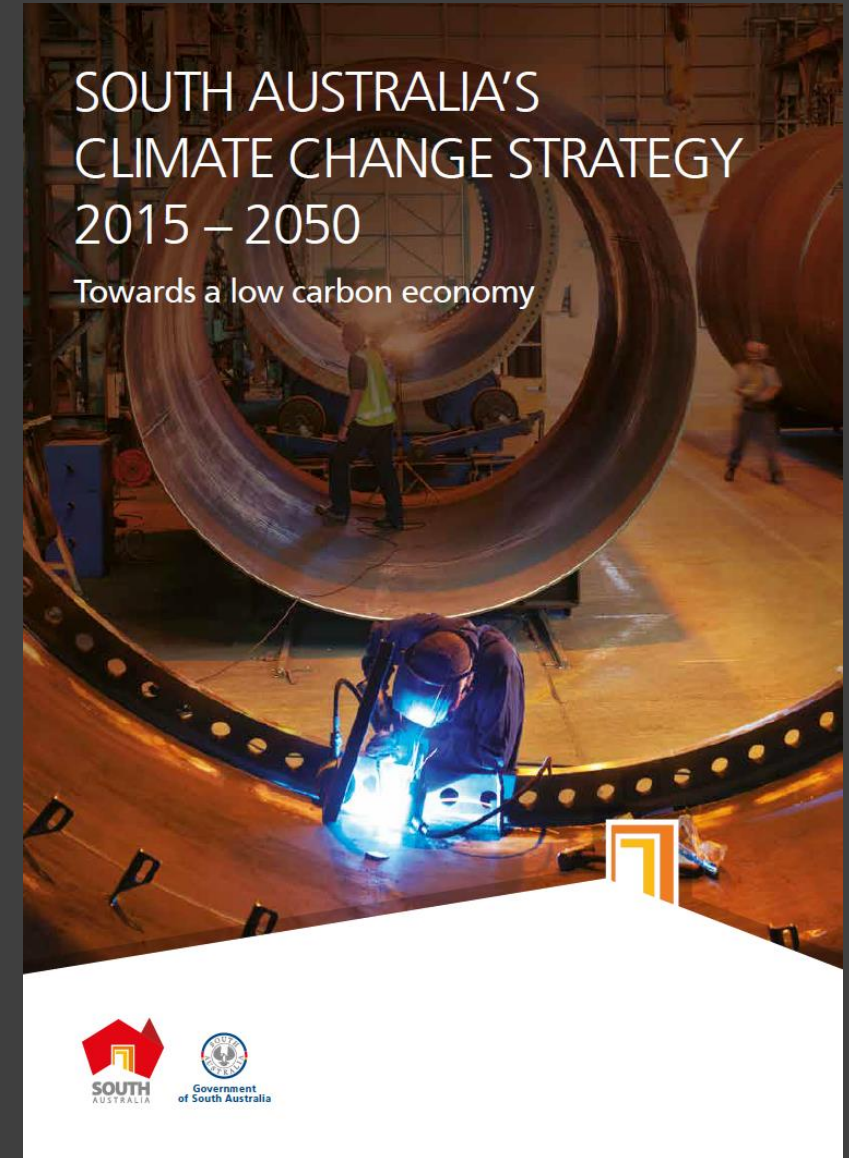
The technology exists

It's already part of the mix

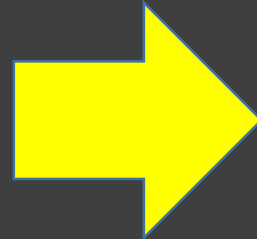
It will be part of our future

## *Is it right for my business?*

- *Can it save my business money?*
- *How much does it cost (& how do I pay for it)?*
- *Is it just about money?*



# What is bioenergy



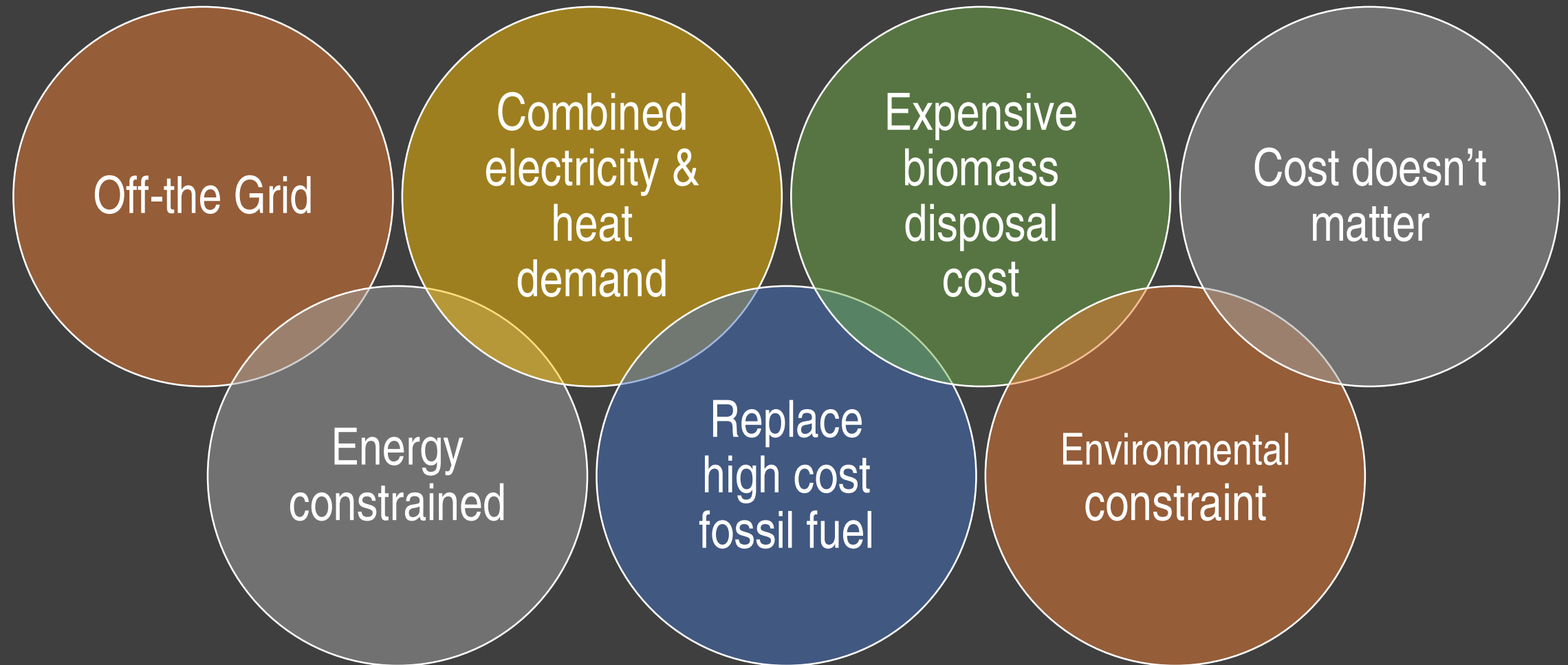
## Bioenergy

- Electricity
- Process heat

## Biofuels

- Biodiesel
- Ethanol
- Wood/biomass pellets/briquettes
- Bio-oil
- Biomethane
- Biochar
- Syngas

# Where is bioenergy most (likely to be) feasible



# Taking the bioenergy journey

## Step 1 – Define objective

- Money
- Environment
- Sustainability

## Step 2 – Learn from & work with others

- Public information
- Peers
- Government
- Industry bodies

## Step 3 – Gather information (data)

- Current energy sources, use(s) & costs
- Future energy needs & costs
- Potential biomass sources & costs

## Step 4 – Preliminary assessment

- Technology
- Up-front & on-going costs
- Cost savings &/or revenue
- Payback / investment return
- Paying for the investment
- Benchmarking against other solutions

## Step 5 – Detailed assessment

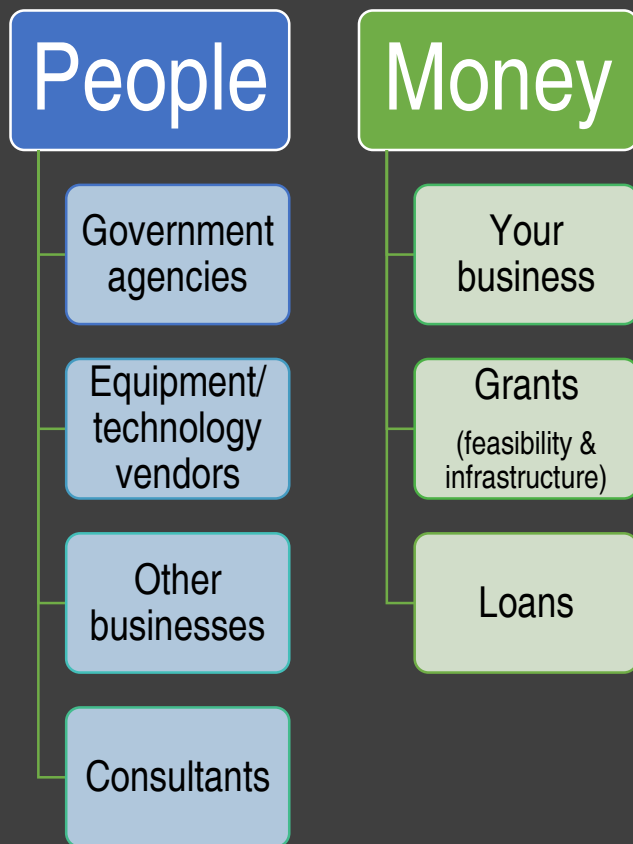
- Design
- Detailed costings
- Financial assessments
- Development approvals &/or environmental licenses
- Securing feedstock &/or customers
- Securing finance

## Step 6 – Project implementation (DCC&O)





# Who can help



**Catherine Way**  
Renewables SA



**Mary Lewitzka**  
Renewables SA



**Andrew Hutcheons**  
Green Industries SA



**Mike Ryan**  
RDA-LC



**Andrea Bartetzko**  
PIRSA



**June Saruwaka**  
LGA-LC



**Callena Rawlings**  
DII&S

**GRANT**assist



# Thank you & questions

E [chris.colby@colbyindustries.com.au](mailto:chris.colby@colbyindustries.com.au)

P (08) 8297 2385

M 0410 088 839

[www.colbyindustries.com.au](http://www.colbyindustries.com.au)

