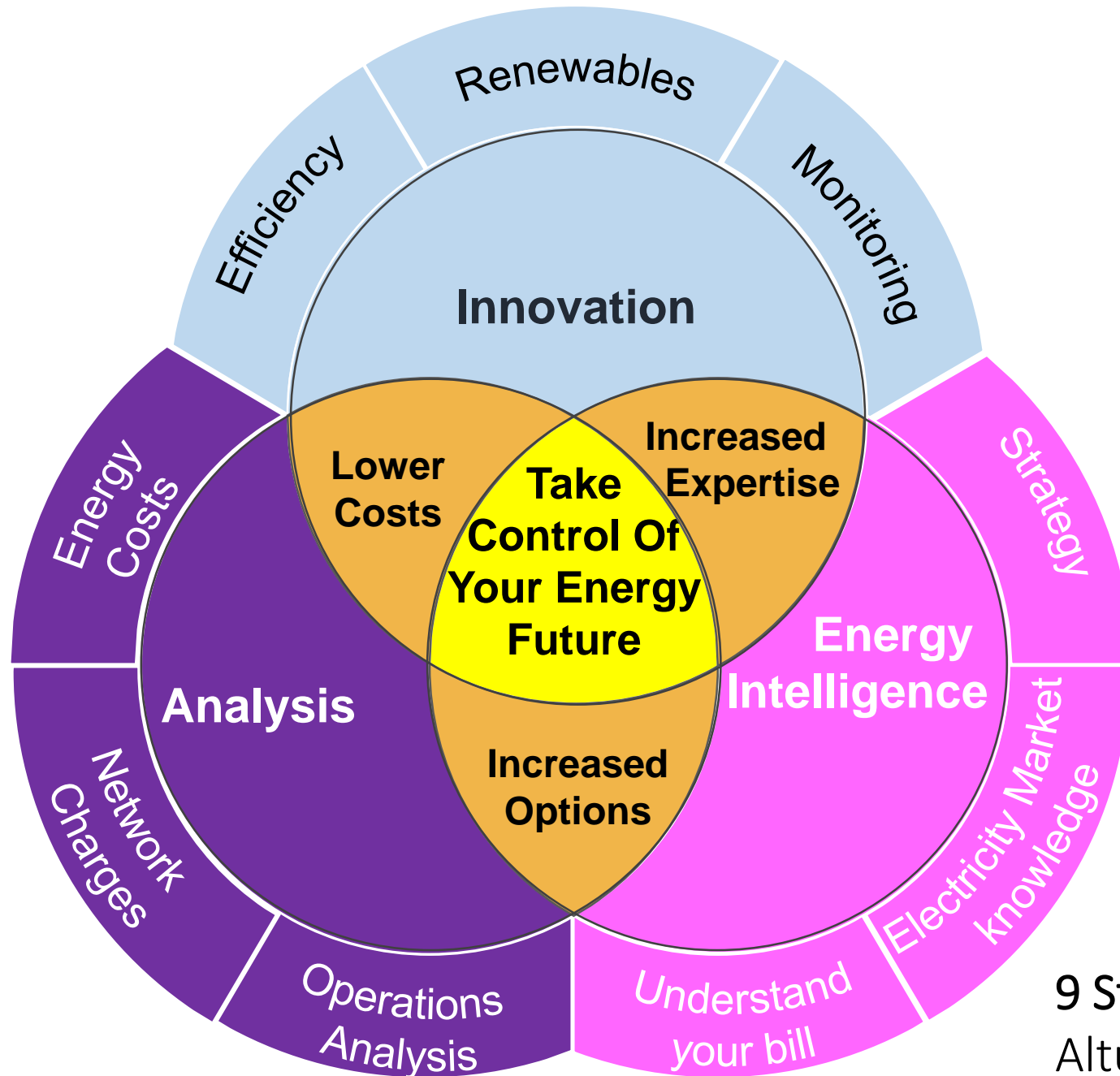


Your energy plan – more than just an energy audit

Rachel Brdanovic

Tandem Energy





The cheapest energy is the energy you don't use

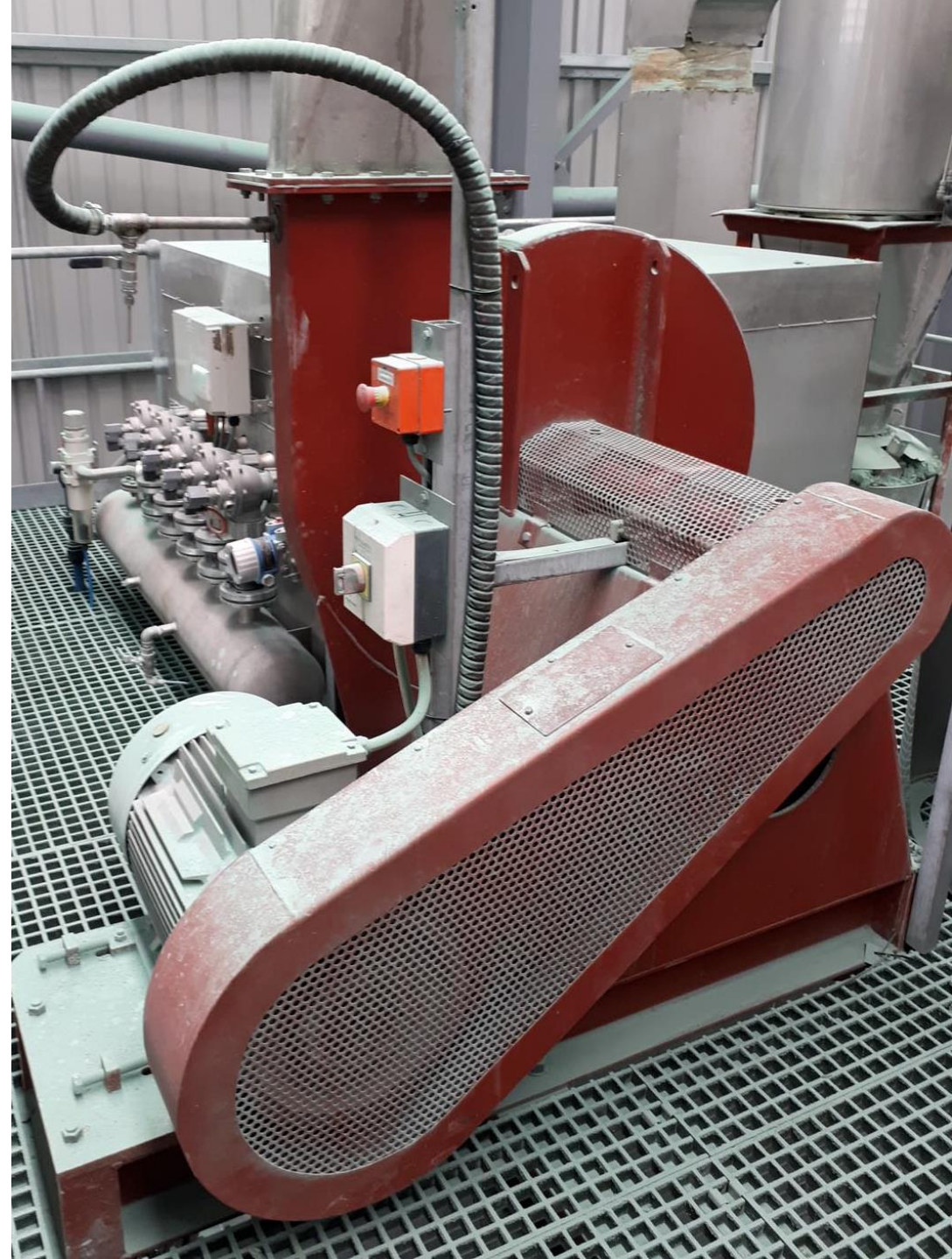
SA Energy Productivity Program

- Combined annual spend on electricity \$10.63m (51.5GWh)
- Identified savings \$1.87m (7.6GWh) for outlay of \$8.09m
- 17.6% reduction in electricity cost (up to 51.9% for one happy client)
- Payback period of 4.3 years
- Simple ROI of 23.1%



Motors

- Pumping, conveyors, fans, grinders, crushers
- 90% of the total lifetime cost of a motor is electricity to operate it
- More efficient motor (6000+ hours)
- Variable speed drives
- Operating times & controls



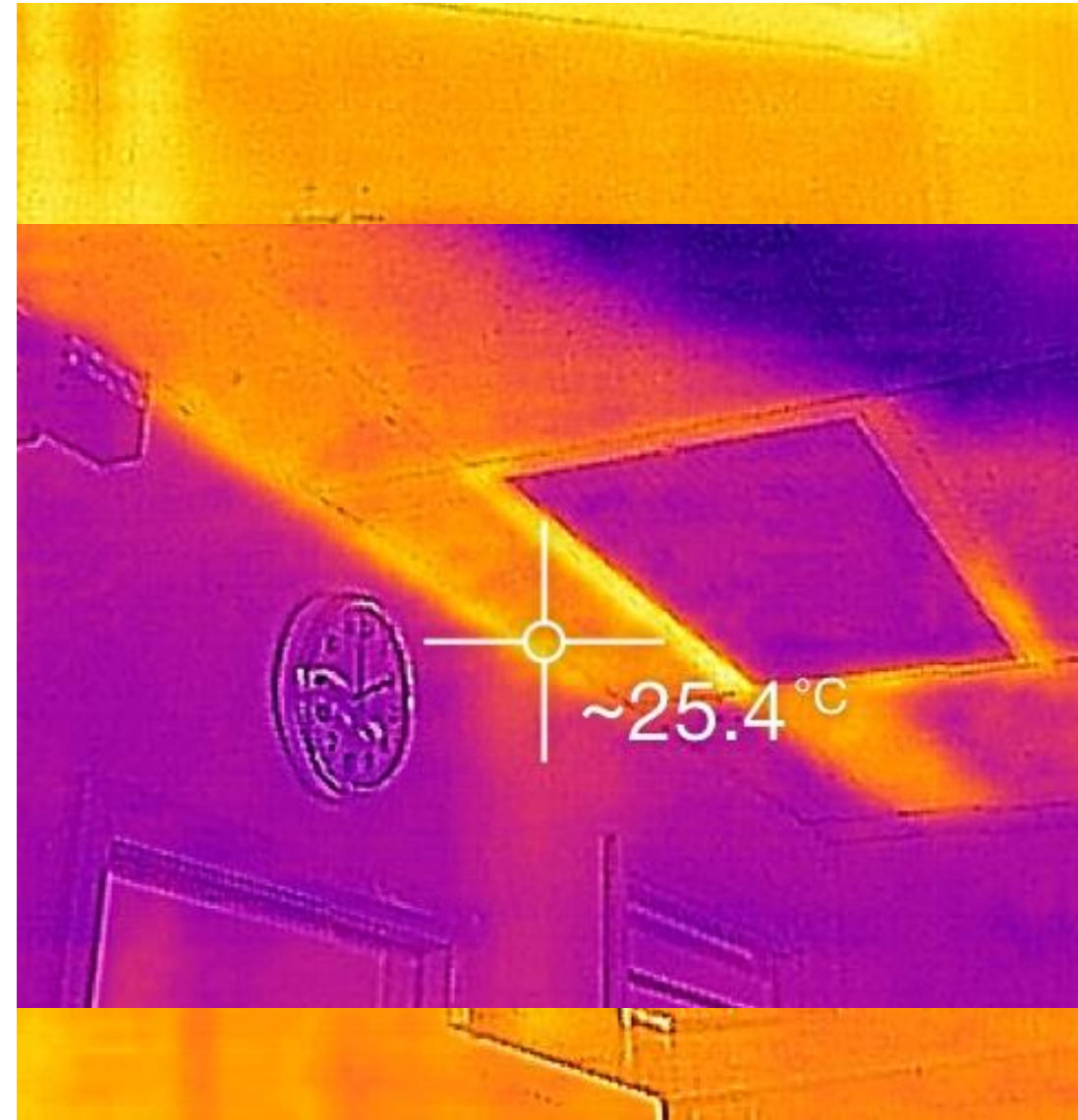
Compressed air

- Only 5% of the electricity used by an air compressor converts to compressed air
- Up to 30% of compressed air production lost as leakage
- Inappropriate use and artificial demand >> 50%
- Electricity cost typically more than 70% of total running cost
- Controls
- Correct sizing and pressure
- Heat recovery



HVAC (heating, ventilation, air conditioning)

- 9% of all electricity in Australia
- 40-60% of electricity per site
- Cooling the ceiling space or outside (hatches off)
- Operating overnight
- Maintenance
- Seasonal adjustments
- Passive design/shading/insulation
- Change expectations



Refrigeration

- Insulation and sealing
- Behavioural practices
- Temperature set point / band
- Solar gain
- Controls
- Refrigerant
- Maintenance



Lighting

- Up to 40% of electricity costs
- Save up to 90% on lighting costs
- Turn it off (behaviour, sensors)
- LED upgrades
- REES
- Keep it clean



Hot water

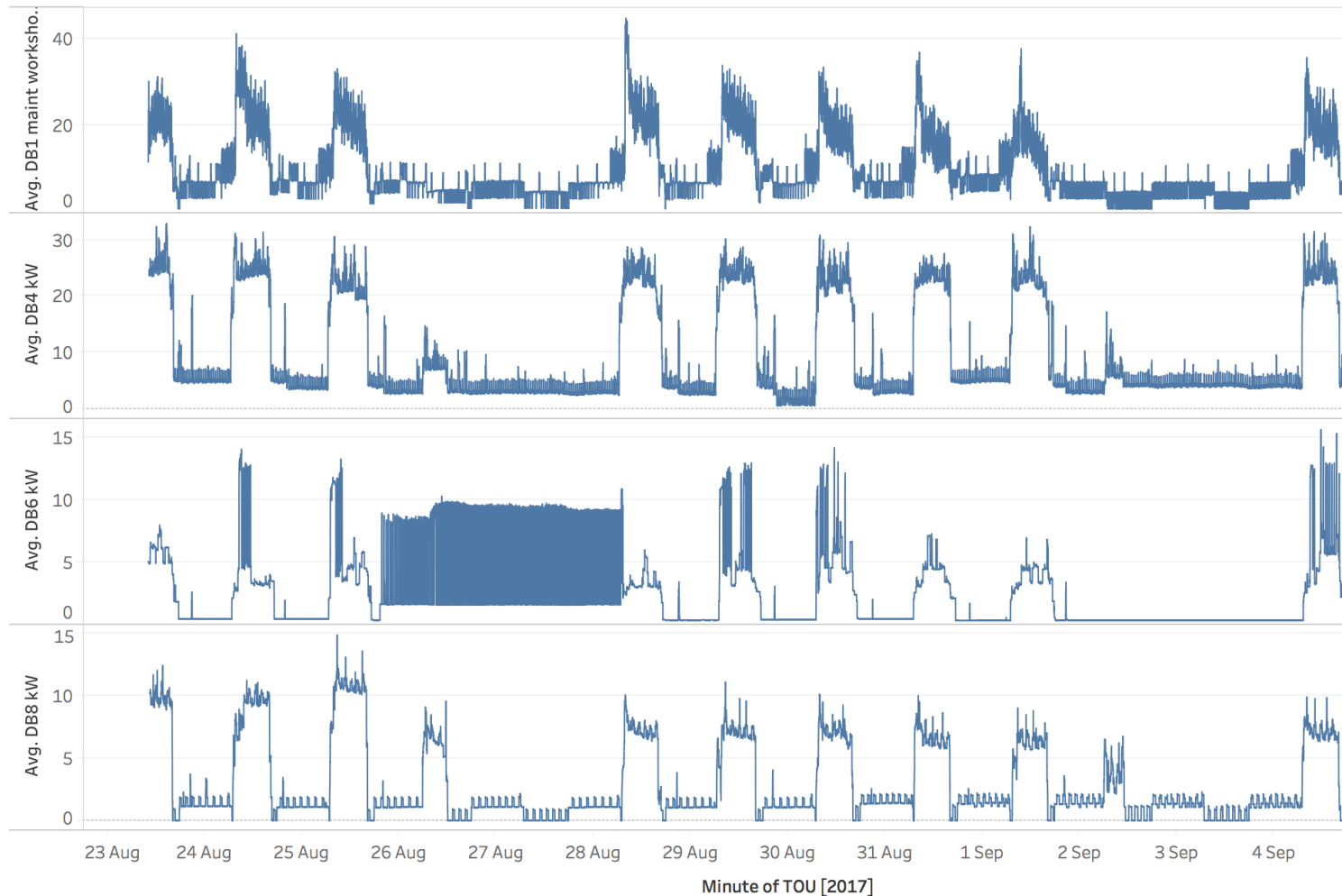
- Gas or electric
- Heat recovery/recirculation
- Set points
- Turn it off

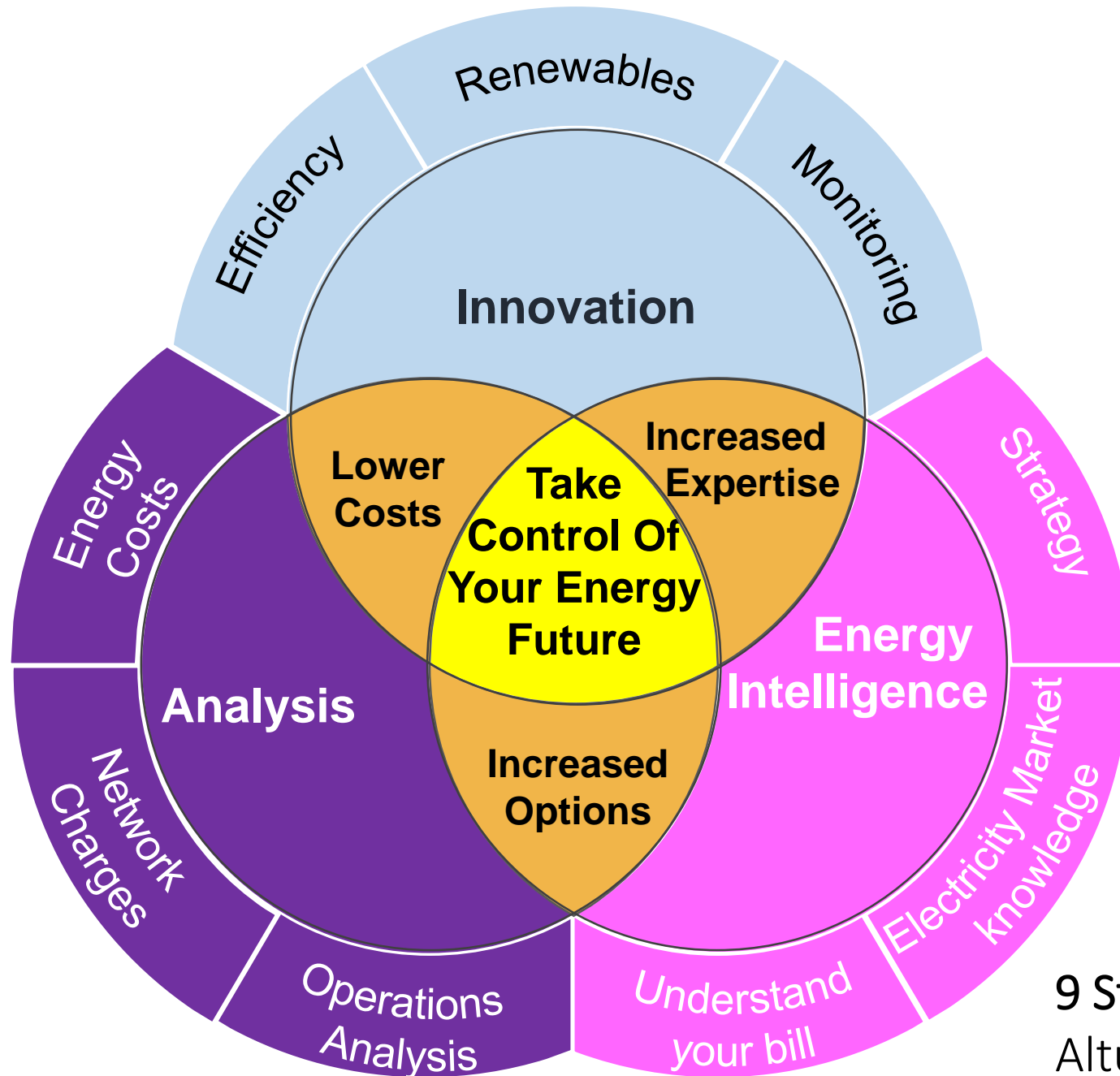


Data logging

- Understand exactly how equipment operates
- Identify standby loads
- Errors in controls

APA Workshop Data Logged DBs





Funding opportunities

- REES – Retailer Energy Efficiency Scheme (~\$4000 towards lights)
- REAP – Resource Efficiency and Productivity program
 - www.greenindustries.sa.gov.au
 - Energy, water and /or materials
 - \$10,000 1:1 funding for audit
 - \$10,000 to kickstart implementation
- SWOP – Solid Waste Opportunities Program
 - Up to \$15,000 to improve materials efficiency and solid waste management
- LEAP – Lead, Educate, Assist, Promote
 - Up to \$50,000 to assist business groups/NFPs to support industry to transition to a circular economy

THANK YOU!

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A Comprehensive
9-Step Framework For
Reducing Electricity Costs and
Boosting Profits

POWER PROFITS