

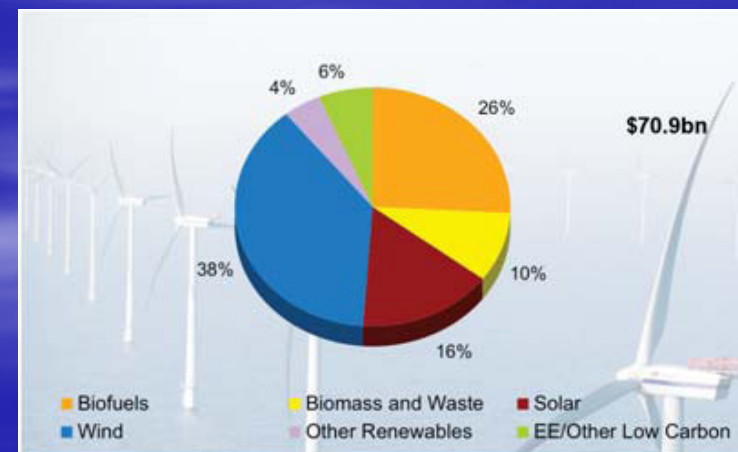
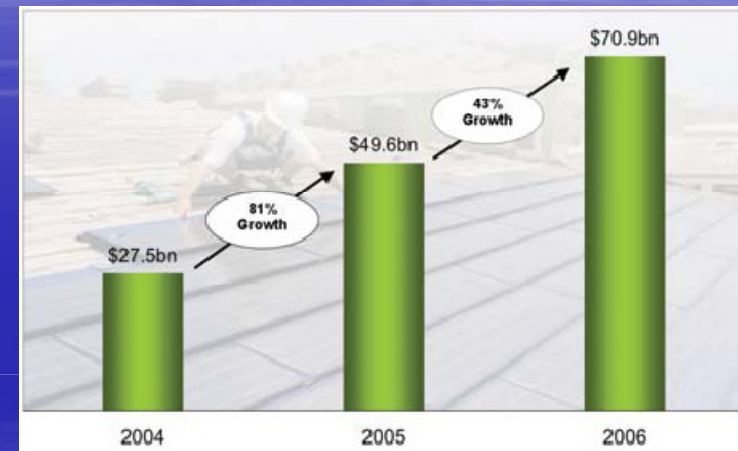
# Hydrokinetics Pty Ltd

Renewable energy – Electricity &  
hot water

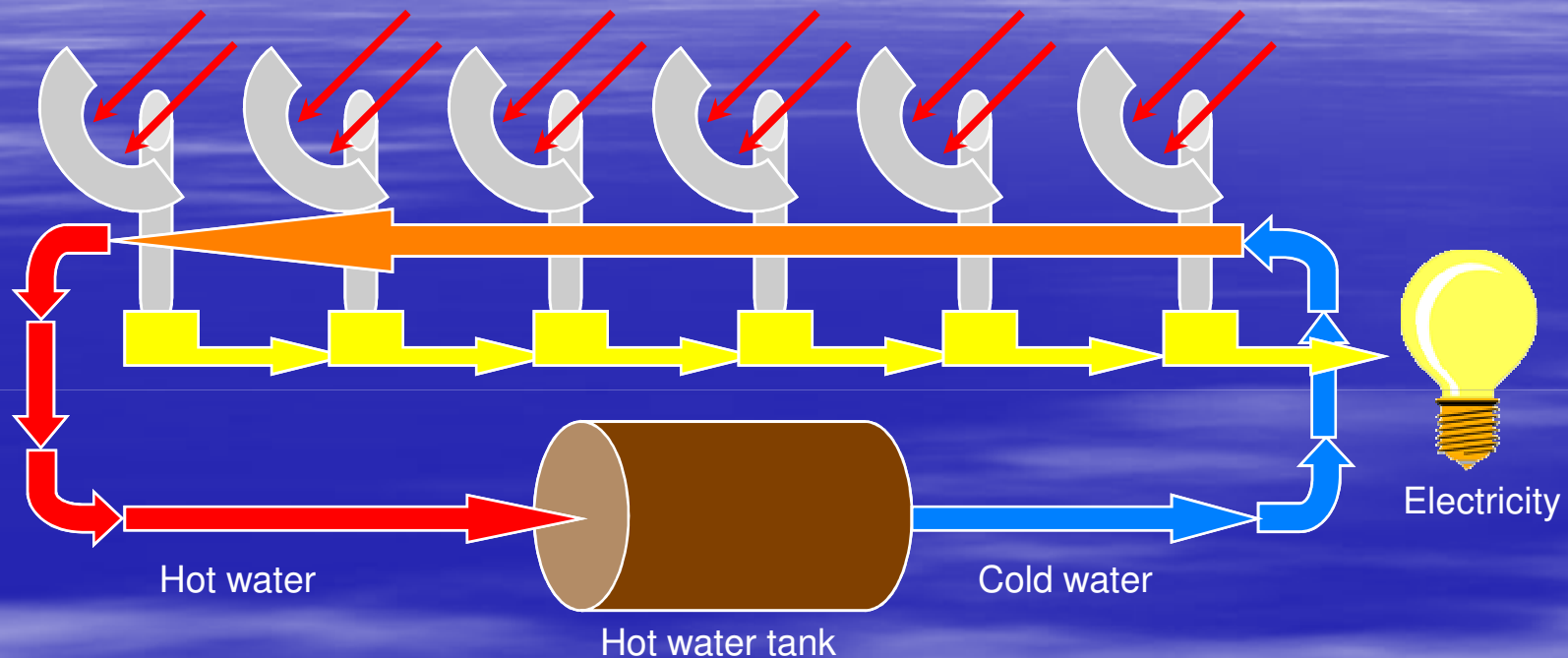
[www.hydrokinetics.com.au](http://www.hydrokinetics.com.au)

# Growth in global sustainable energy: 2004 to 2006

- Real growth, supported by demand
- New investment through venture capital and private equity totaled \$70.1 billion worldwide in 2006, an increase of 163% over 2004 levels
- Solar installations totaled \$9.1 billion in 2006.



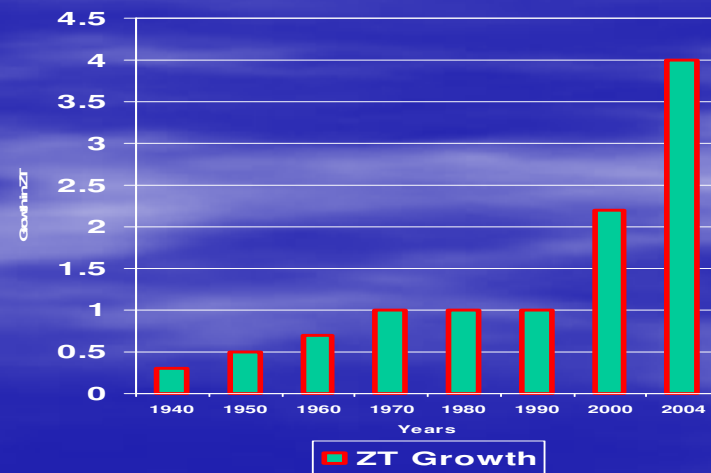
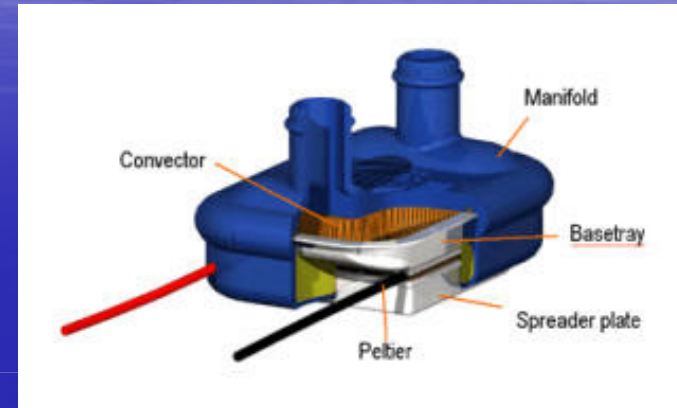
## Combined Solar Electricity and Hot Water System (Industrial version)



- Generates electricity and hot water simultaneously
- Very high overall conversion efficiency (electricity + hot water)
- Similar in cost to PV (for same electrical output)
- Also provides hot water (for free!)
- Small domestic versions as well as industrial versions
- It allows for solar energy to be stored

# What is our point of Difference?

- Highly effective heat exchangers for thermoelectric modules (“TEC’s)
- Significant improvement in the power of TEC technology
- TEC technology next solid state revolution



# Comparative Analysis:

## **PV/Thermal Hybrid**

- 9.5kWh/day

## **Solar Thermoelectric System**

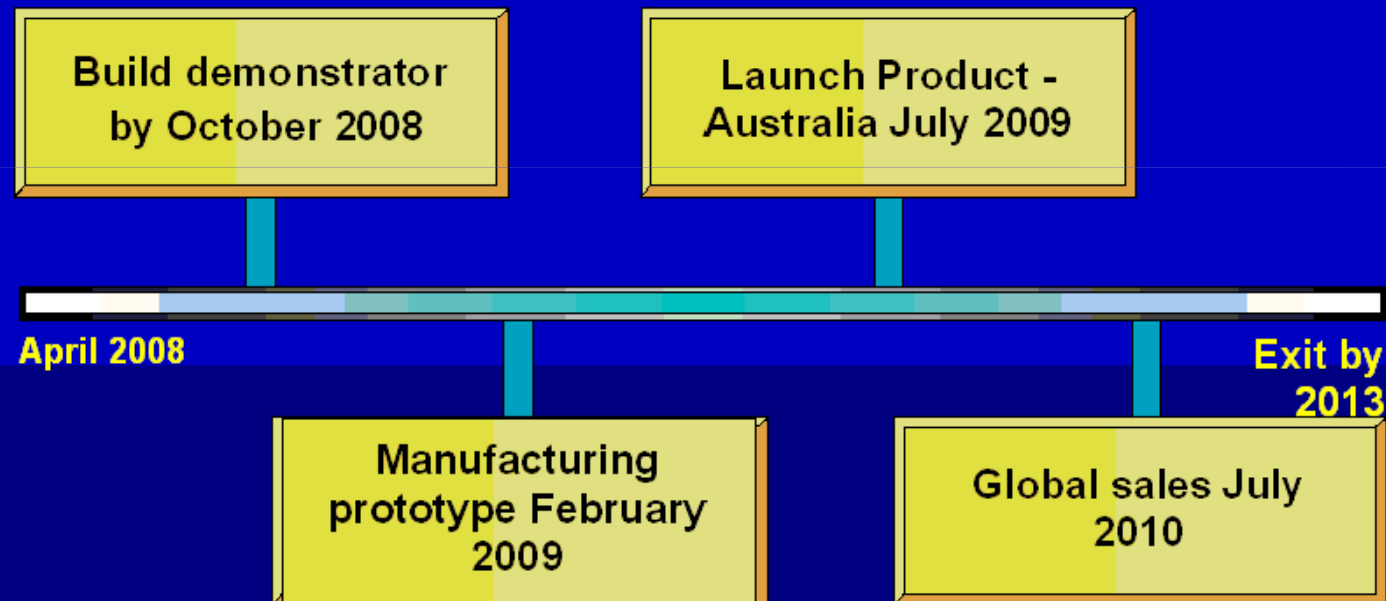
- Total 20 kWh/day

**Over double the energy**

**Similar system cost to PV panel cost thus hot water is free**

- PV panels hate heat
- TEC's love heat to generate electricity thus hot water is by-product

# Launch Time Line



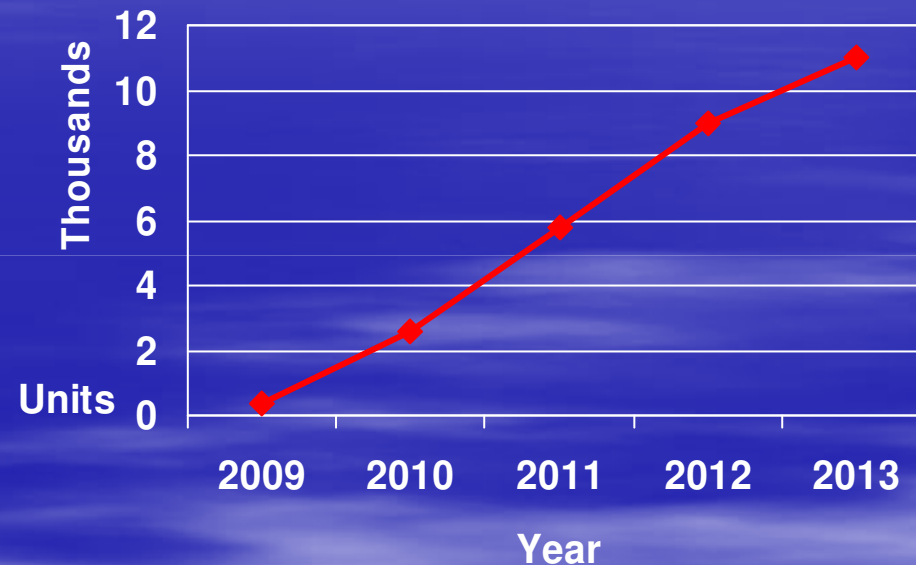
# Requirements of proposed new vehicle – Belenus Energy Ltd

- AUD\$3.75 million
  - \$750,000 Round 1 (Immediate)
  - \$3 million Round 2 (9 months from Round 1)
  - Milestone increments in both rounds
- IRR: Assuming 35% equity – very positive
- Research completed – engineering project only
- Product to market July 2009

# Financials – Belenus Energy Ltd

- **Round 1: \$750,000**
  - CSIRO
  - More patent applications
  - Working capital
  - Recruitment
  
- **Round 2 – \$3 million**
  - Australia launch 2009
  - India/Middle East/USA 2010
  - Other 2011 –

**Sales Forecast**



# Belenus Energy Ltd

- IP jointly owned & transferable to BEL
- Engineering project – research completed
- Defined distribution channels
- Risks low – highly competitive product
- Challenges include Government subsidy, developing management team.

Revenue and Profits (000's)



# Conclusion

- A solar generator that delivers twice the energy at less cost than its solar competitor
- Cheaper after sunset energy storage
- Longer peak energy production
- Strong technical partners
- Very strong growth path
- Waste heat compatible
- Global market exceeds \$9 billion & growing
- Significant return on investment