



EirGrid Group **Customer Conference 2012**

25th October 2012

Delivering the Power System of tomorrow





'SOLACATCHER' – HARNESSING THE POWER OF THE SUN

Innovative, Affordable Solar Water Heating Technology

University of Ulster, Centre of Sustainable Technologies

Dominic McLarnon – Research Fellow Low Carbon



**MAKE IT IN
GREAT BRITAIN**

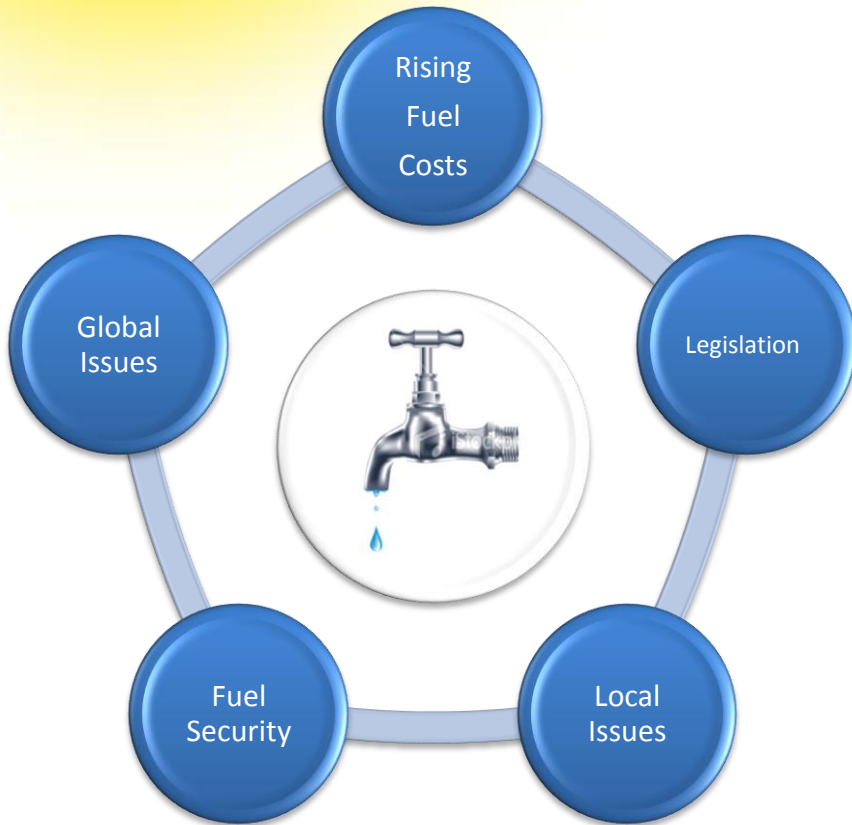


ecobuild
your future



The Challenges

Domestic Hot Water



Conventional Solar





The Solution



Passive Operation

Simple Integration

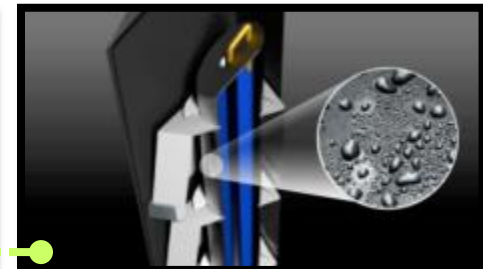
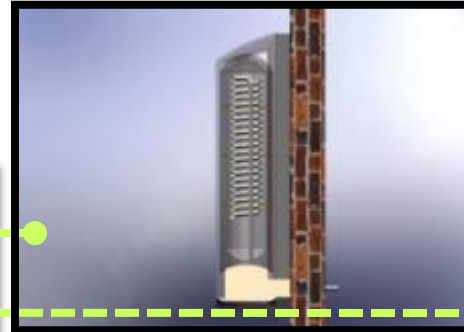
Zero Running Costs/No Electricity

Minimal Maintenance

Ideal Retrofit Solution



The Product



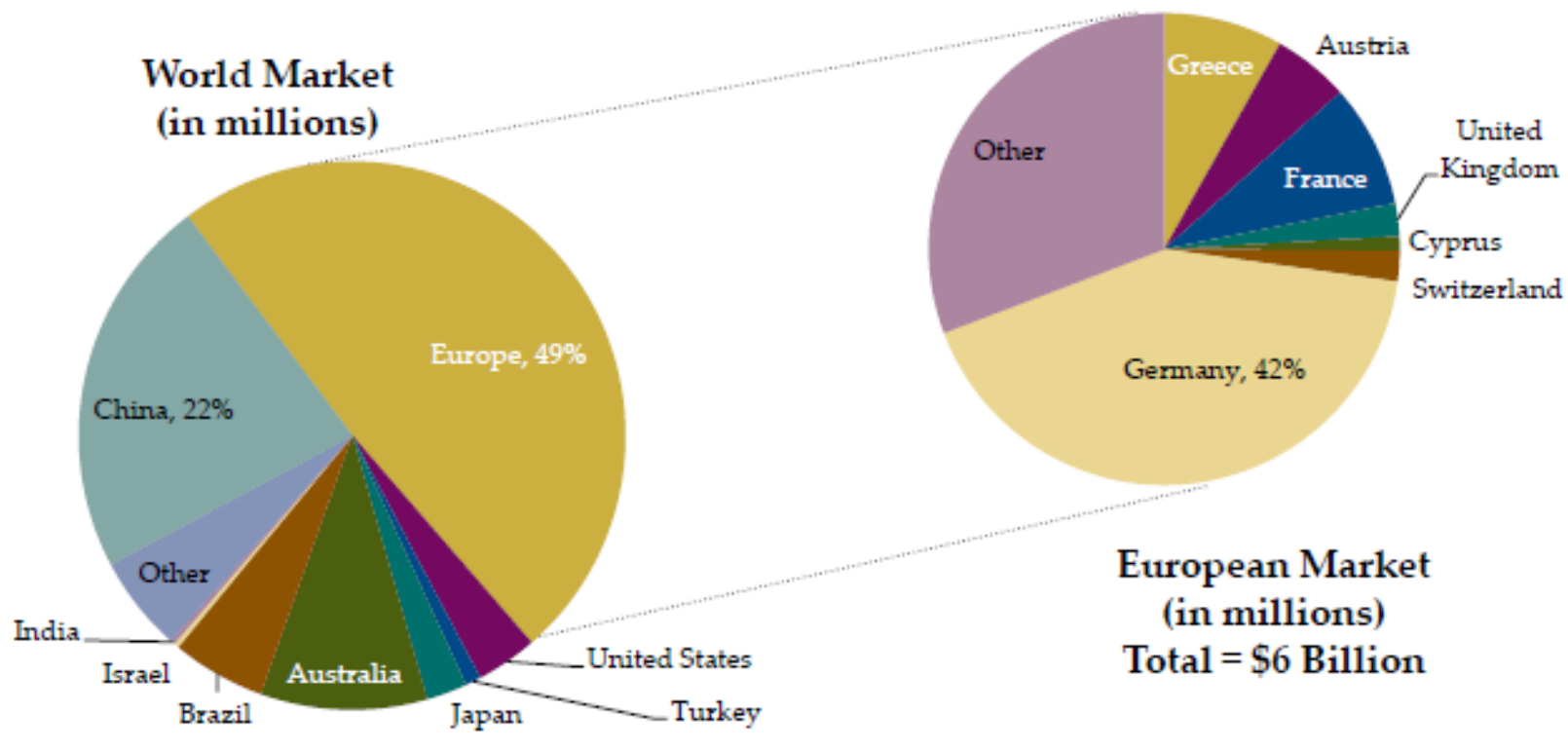
- Patent Pending technology designed to optimise solar gain by utilising an innovative thermal diode arrangement to collect the sun's energy and store heat
- Typical solar installation cost £3,500 versus Solacatcher c.£500
- Provides ~15% hot water requirements

First in a series of innovative technologies for the sustainable energy market



The Market

**World Solar Water Heating Market
Value: \$12.4 billion**





Target Sectors

- Residential housing
 - Low rise (detached, semi, terraced)
 - High rise dwellings
- Small scale commercial
- Leisure (holiday parks, 2nd homes)
- Disaster relief (temporary accommodation)
- Stand alone (outdoor showers)

In the UK

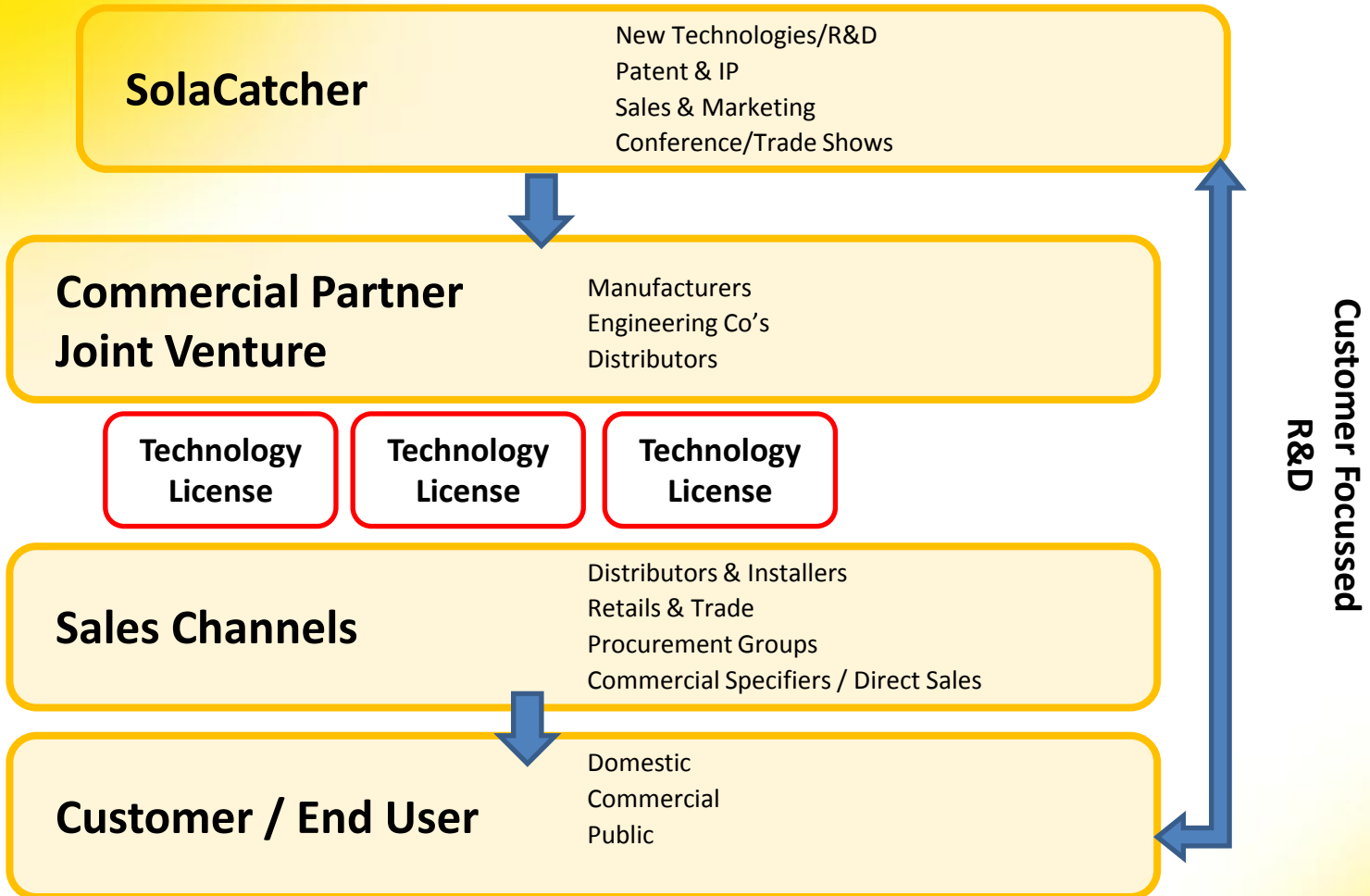
- 25.3 million homes in the UK
 - council / association housing properties c.5 million
 - High rise residential c.4.92 million homes
 - low income households c.2.8 million

UK domestic energy **retrofit** market – sector to mushroom into a £200 to £500 billion industry over the next 40 years





Route to Market





Financials

Sales Projections

	2014	2015	2016
Potential Unit Sales	20,000	100,000	250,000

Funding Requirement

Design Optimisation	£20,000
Prototype Build and Testing	£30,000
Certification	£30,000
Business Development/Trade Shows	£10,000
Licensing and Legals	£10,000
Staff/Resources	£30,000
Total	£130,000



Thank you

