CLEANTECH CAPITAL DAY

NOVEMBER 28TH 2007 LAHTI - HELSINKI, FINLAND

Investment Opportunities in Water Tech

Lydia Whyatt, Foursome Investments Ltd









Foursome Investments – Brief Summary

- Foursome Investments Ltd is a London based investment management business with \$115m funds under management.
- Strong focus on clean technology and environmental issues since inception (1998), dedicated new Cleantech fund since October 2006 (Foursome Cleantech LP I), with strong focus on water technologies.
- In Water Tech we focus on the following areas:
 - > Water recover and re-use
 - Energy efficiency
 - > Energy from waste streams
 - > Materials from waste streams



M Parkman/Foursome - Water TAG

- Mouchel Parkman Group is one of the largest engineering consultancies in the UK
- Water TAG' Industry Technology Assessment Group with major water utilities in the UK founded by Mouchel Group
- Foursome is a founding VC/PE member
- Track record 2005-2007
 - > 350 technologies reviewed to date
 - > 29 presented to TAG
 - > 23 presented to investors
 - > £14.5m invested
 - > First exit in June 2007



Foursome CleanTech Portfolio













Water Sciences Ltd





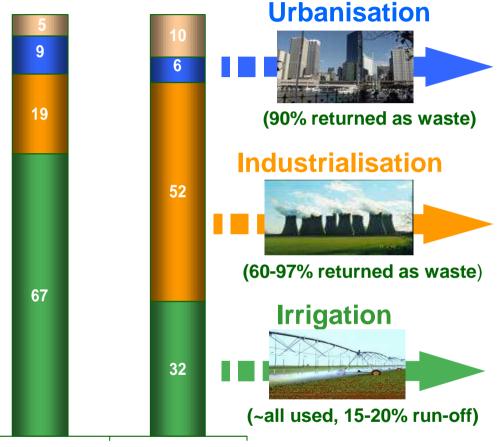


multi parameter optical sensing





Why Water is an issue/opportunity for VC?



By 2025 WW water demand is to increase from 3750 km³ to 5100 km³, for some industrialising countries - 3-5 times

WW Industrialised countries*

* US example Sources: USGS, UNESCO



Water Tech Could Be Key Solution

97% of Earth water is saline







Desalination

- \$3.8b market, only 1% of all fresh water used
- Desalination equipment market:20-25% growth p. a 2005 2015.



Water Re-use

- Only small% of waste water is re-used
- Re-use tech market growth (ex.):
- UV technology market: 15-30% p.a.
- Membrane filters: 15-20% p.a.





Areas of VC activity to date

- Desalination technology,
 - > e.g Altela (US), Water Sciences (UK)
 - > energy tech for desalination e.g. <u>Oceanlinx (formerly Energetech, AU)</u>
- Water Re-use technology:
 - > Advanced filtration technology (micro-, utra-, nano-, and ion exchange membranes), e.g. <u>Stonybrook</u> (US), <u>Inge AG</u> (GE), <u>Pionetics</u> (US)
 - > Chemical free disinfection technology (UV, ozone, AOP, etc), e.g. <u>Quay Technologies</u> (UK), <u>Ozonetech</u> (Sweden), <u>Atlantium</u> (Israel).
- Sensor Technologies: e.g. Sensicore (US), Intellitect (UK)





Quay Technologies Ltd

2003

Œ



Nature of Business: Water Purification Technology Website: www.quaytechnologies.com



Quay Technologies has developed a revolutionary UV disinfection system using electrode-less lamps which provide substantial performance improvements and cost savings (2x) for the waste water and drinking water industries. Development partnership with Philips. Preferred supplier to a number of major UK utilities, growing business in Eastern Europe, recent installation in China. Acquired By Severn Trent Services, a division of Severn Trent Services (part of the major UK PLC with £3bn market cap).



Foursome Portfolio Examples

Water Sciences Ltd

Date of Investment: 2006

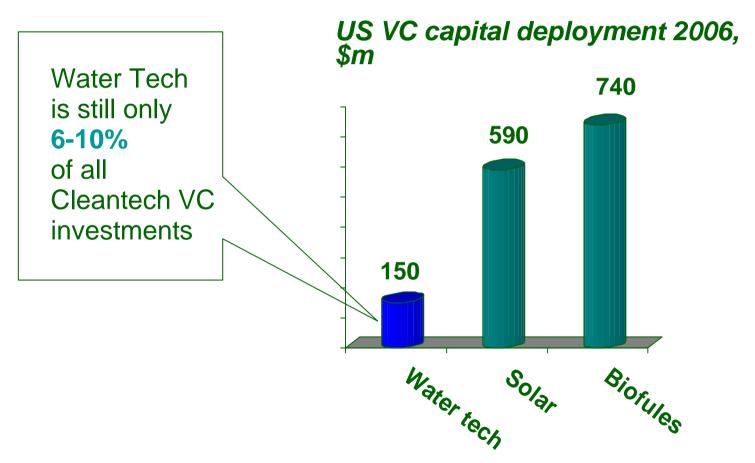
Nature of Business: Desalination Technology

Water Sciences is a seed stage company which has developed a breakthrough, low cost approach to desalinating seawater. Foursome has funded proof of concept trials alongside our venture partner. Early results are showing energy savings over current reverse osmosis approaches of up 5 times.



But Low Level Compared to Energy

"a Drop In the Bucket" (www.vcjnews.com)





Despite Strong Public Markets And M&A

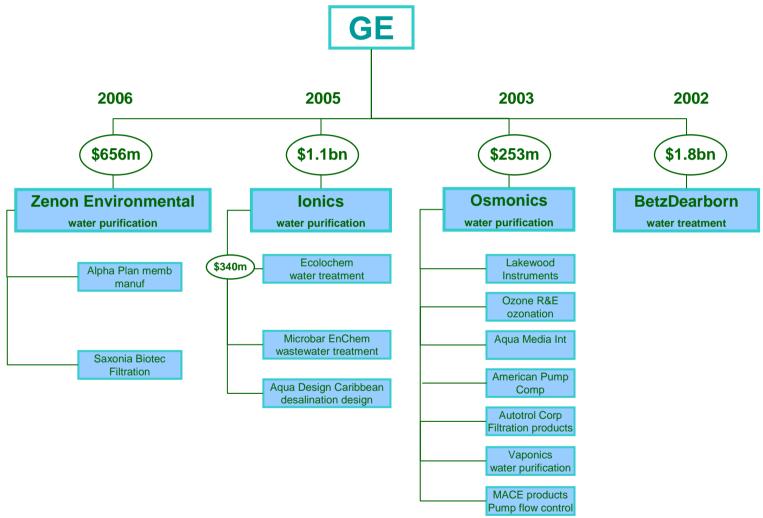
Water Index* Versus over 2007



^{*} Palisades Water Index (AMEX: ZWI)

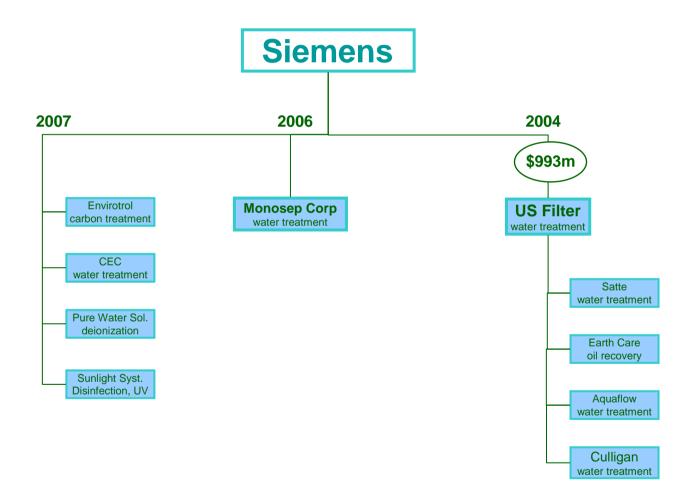


M&A activity - GE Builds Water Business



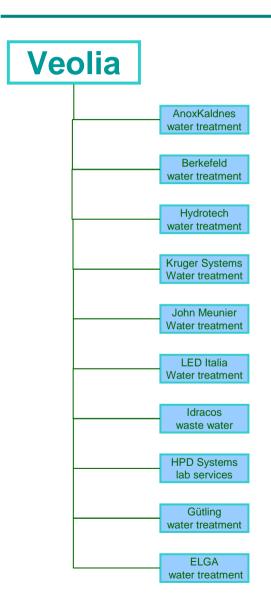


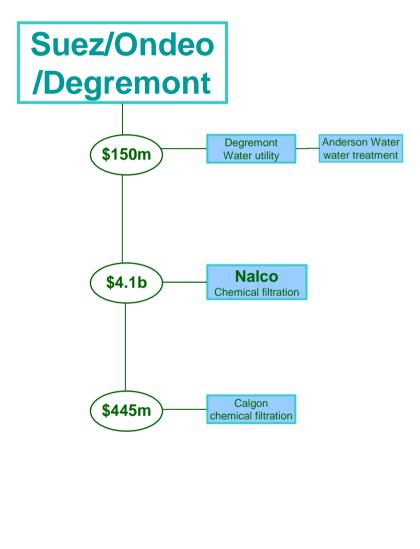
M&A activity - Siemens: head to head





M&A activity - Veolia and Suez







Other Large Active* Water Tech Acquirers





























And Recent Water Tech IPOs

Company Name	Description	Market	Date Listed	MC at IPO
Modern Water, UK	Subsidiary of IP Group, IP commercialisation company	LSE	June 2007	99m
Basin Water, US	Producer and supplier of water filtration systems	NASDAQ	May 2006	\$200m
Amiad, Israel	Producer and supplier of water filtration systems	AIM	December 2005	35m (now 45m)
Hyrdo Int, Israel	Treatment of stormwater and wastewater	AIM	April 2005	20m (now 44m)
Metal- Tech, Israel	Extracts metals from industrial sludge	AIM	May 2005	70m
Bio-Treat Technology, China	Uses biotechnology for waste and water treatment	SGX	February 2004	SGD355m (today > SGD1bn)
Christ Water Technology, Austria	Water and wastewater treatment	vsx	November 2004	164m



Why Not More Investment Actvity?

- Exits are not as attractive as in other CleanTech sectors:
 - > Collection of niche opportunities rather than a "holy grail"
 - > A lot of M&A, but mainly small acquisitions
 - > IPOs are not as "flashy" as Q-Cells or REC.
- Risks are high for early stage:
 - > Barrier to entry are very high for early stage
 - > Long sales cycles, conservative customers
 - > Slow corporate customers on the waste water side
- Lack of good opportunities/teams to back:
 - Historically low interest from entrepreneurs for the reasons mentioned above
 - Under-investment in testing technologies on commercial scale due to the early stage capital gap



But There Are Reasons to Be Optimistic:

- The market is becoming more dynamic:
 - Water utilities outsource asset maintenance, creating both PE buy-out and VC tech opportunities
 - The customer base is spreading: Industrial waste water will increasingly become the responsibility of the polluters
- The issues are becoming more acute:
 - > Environmental awareness
 - > Rising energy cost
 - > Regulation is starting to bite in some markets (WFD)
- Supply of deal is getting better (but things take time)
 - Corporate interest (e.g GE, Siemens, IBM) "woken up" entrepreneurs and universities
 - Government funds committing to long term water tech (Singapore, Israel, etc.)
- No bubbles to burst!
 - > Less competition for deals (at least at the moment)
 - > Space for knowledgeable investor as picture is more complex
 - > No inflated expectations and government credits



Foursome Future Focus in Water Tech

Energy efficiency:

- It costs 3-5 times more to desalinate water than to pump out of the ground
- Removing persistent pollutants from waste water (WFD) will be very energy intensive (UV, AOP, filtration, etc)
- Transporting water is becoming a more common feature (e.g. Canada to US)
- Industrial biotech application to waste water:
 - Most cost effective treatment (and least energy)
 - > Any wet organic waste is a feedstock



Contact Details

Foursome Investments Limited
The Mews
1A Birkenhead Street
London WC1H 8BA

Telephone: +44 (0)20 7833 0555

Facsimile: +44 (0)20 7833 8322

Website: www.foursome.net

Lydia Whyatt

I.whyatt@foursome.net