

Christchurch Ground Water Energy Seminar

Christchurch District Energy Scheme



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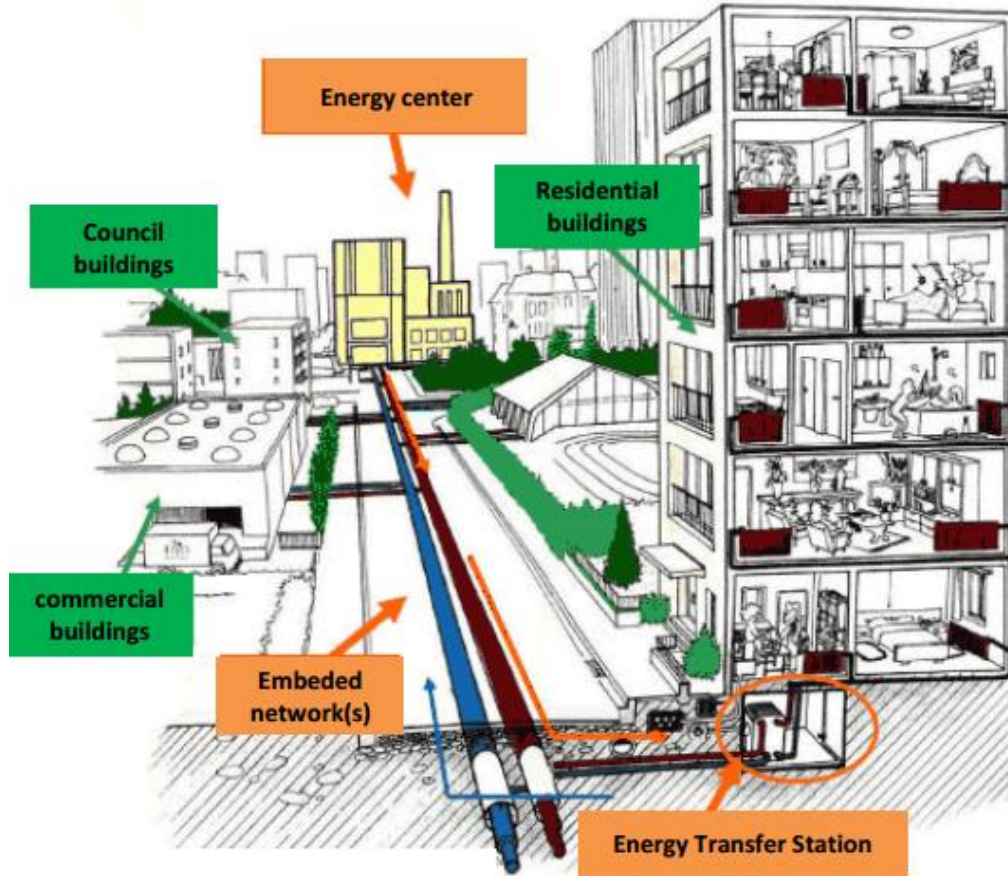
12th June 2015

Canterbury
District Health Board
Te Pori Hauora o Waitaha

PIONEER
GENERATION
COMMUNITY OWNED RENEWABLE ENERGY

COFELY
GDF SVEZ

District Energy



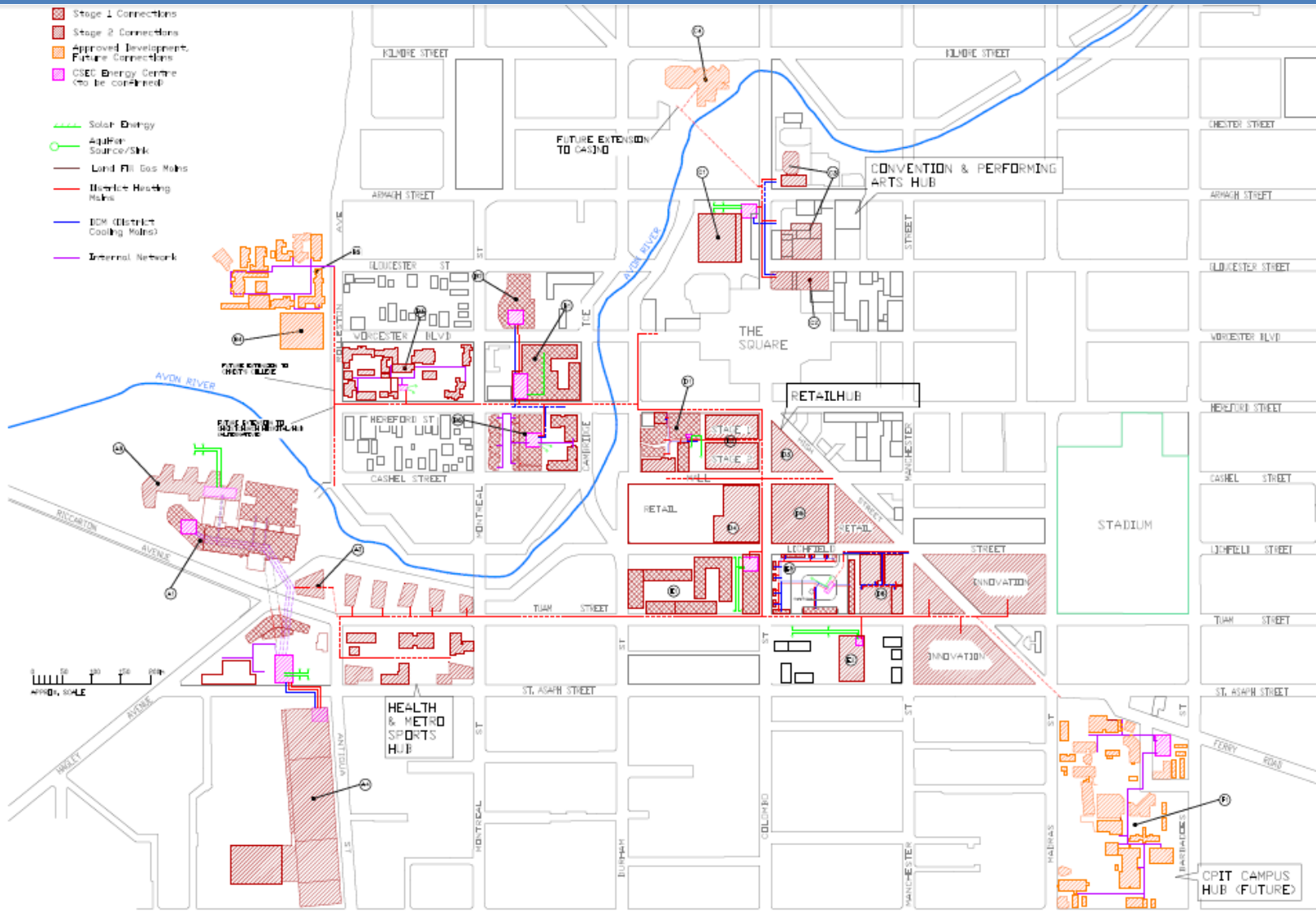
Benefits of District Energy

The District Energy System is proposed as a more cost effective and efficient way to meet the heating and cooling needs of the buildings in the Christchurch City Centre.







District Energy has a number of key benefits:

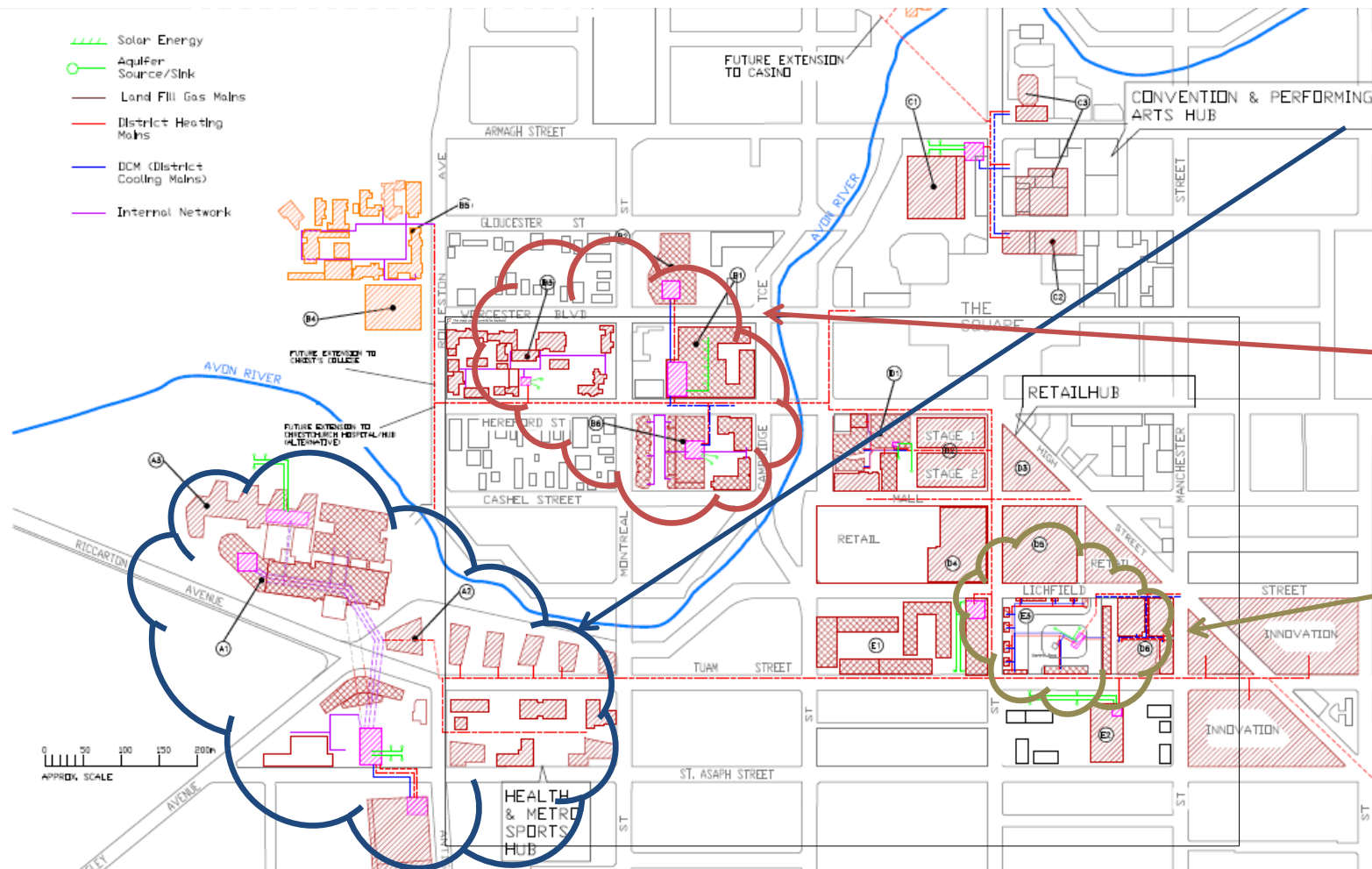
1. Improved energy efficiency
2. Lower Energy Costs
3. Improved Resilience
4. Future Proof Energy Supplies / Fuel flexibility
5. Space Saving
6. Risk Transfer (Comfort and convenience for customers)

Christchurch first projected energy hubs



Current projects

-  Solar Energy
-  Aquifer Source/Sink
-  Land Fill Gas Mains
-  District Heating Mains
-  DCM (District Cooling Mains)
-  Internal Network



Hub 1 :
Hospital and
Metro Sports

Hub 2 : Civic
Center, KEB
and Art Gallery

Hub 3 : Bus
Interchange

Case study : fuel switching

District Energy Schemes can use a wide range of energy production adapted to local resources and constraints.

Christchurch unique aquifer resources makes aquifer heat pumps an appropriate heating and cooling production solution, which can be combined with more conservative solutions for the best cost/energy efficiency ratio.

Case study with the Hospital Hub model presentation.