

Heat Exchangers for the District Energy

Warsawa Event 2023-04-18

Christer Frennfelt

SUVEP
A DOVER COMPANY

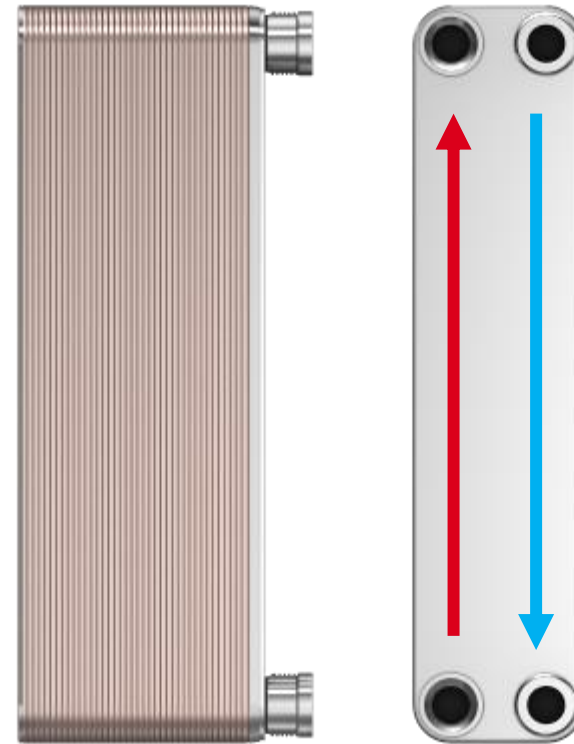
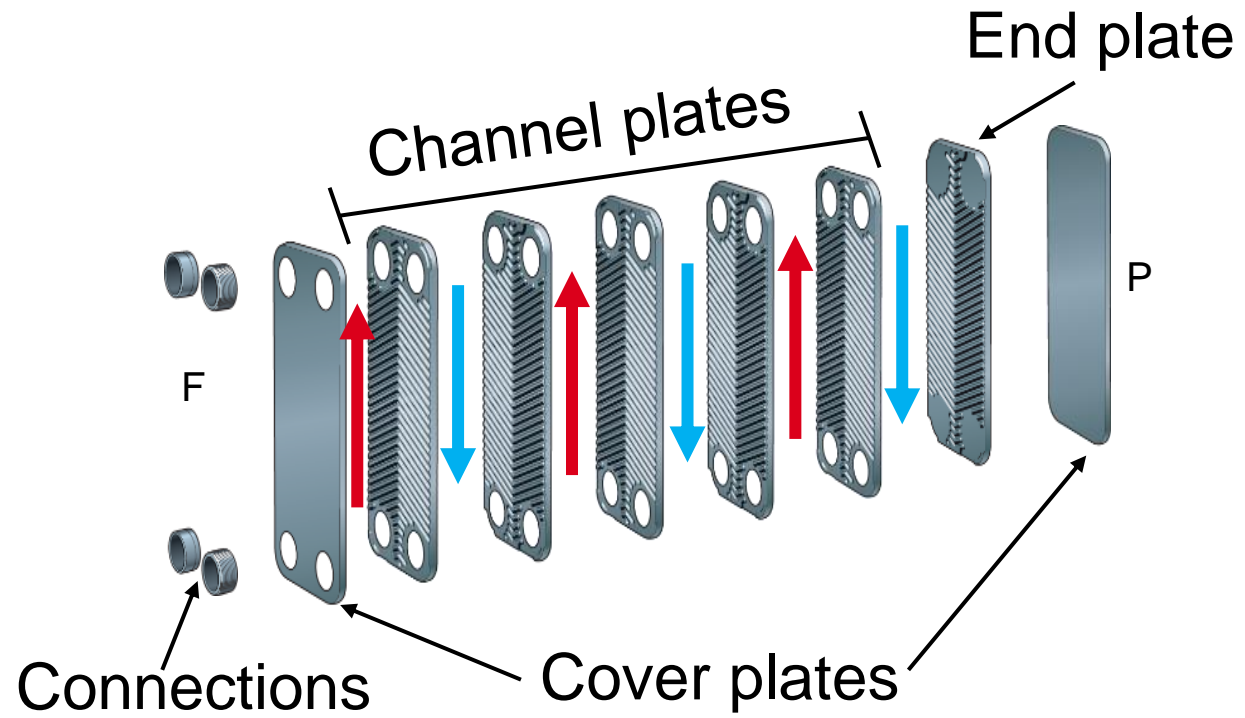


Taking on the global energy challenge

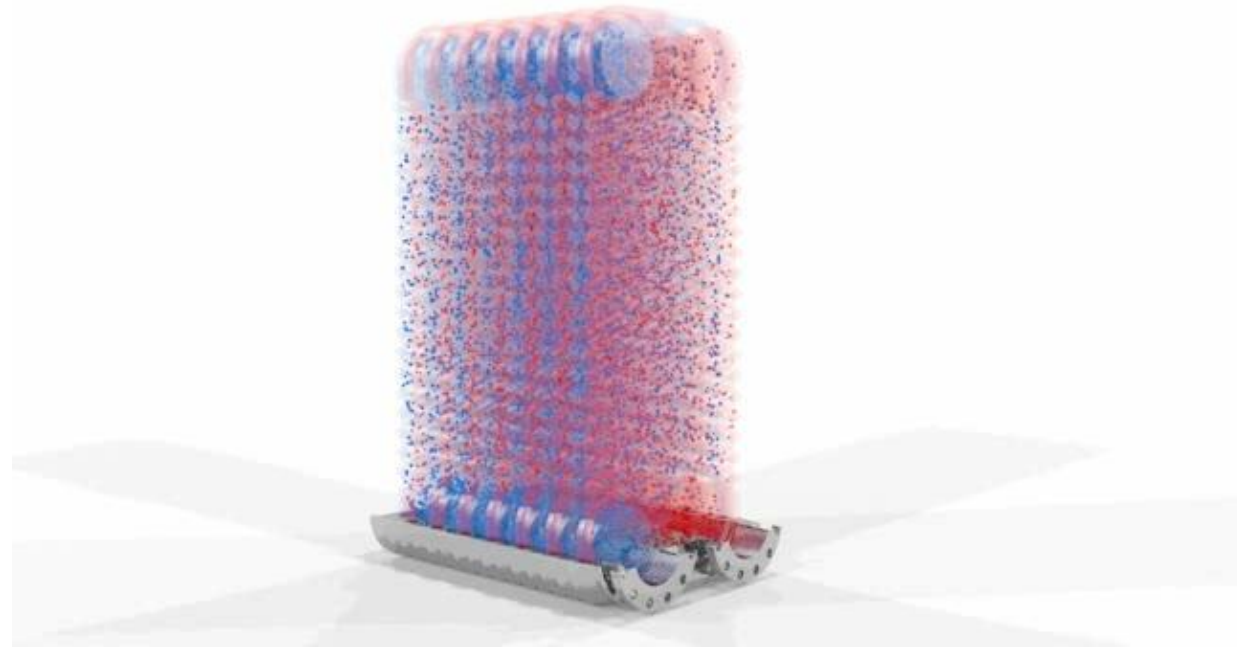
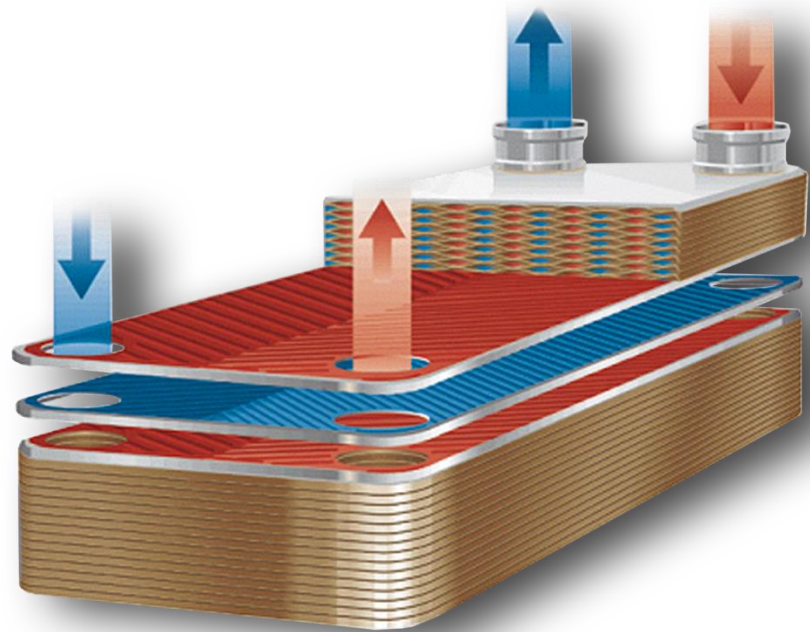
- Specialized in Brazen Plate Heat Exchangers (BPHEs)
- World-leading manufacturer
- **SWEP** founded in 1983
- Since 1994 owned by **DOVER**



Construction of a BPHE



How a BPHE works?



Dedicated BPHEs for heating applications



E5AS

Dimensions:
73 x 192 mm
2.87 x 7.56 in



E5T

Dimensions:
73 x 192 mm
2.87 x 7.56 in



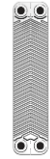
B5

Dimensions:
72,5 x 187,5 mm
2.85 x 7.38 in



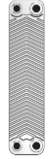
E8AS

Dimensions:
74 x 315 mm
2.91 x 12.4 in



E8LAS

Dimensions:
74 x 316 mm
2.91 x 12.44 in



E8T

Dimensions:
74 x 315 mm
2.91 x 12.4 in



B8T

Dimensions:
72 x 310 mm
2.84 x 7.45 in



B8LAS

Dimensions:
76.2 x 317.7 mm
3 x 12.51 in



B10T

Dimensions:
119 x 289 mm
4.68 x 11.37 in



B12

Dimensions:
117 x 287 mm
4.60 x 11.29 in



B15T

Dimensions:
72 x 468 mm
2.83 x 18.42 in



B16

Dimensions:
119 x 376mm
4.69 x 14.8 in



B16DW

Dimensions:
119 x 377mm
4.70 x 14.85 in



B35T

Dimensions:
243 x 393 mm
9.57 x 15.47 in



B35TDW

Dimensions:
243 x 393 mm
9.57 x 15.47 in



B28

Dimensions:
119 x 526mm
4.69 x 20.71 in



B80

Dimensions:
119 x 526 mm
4.69 x 20.71 in



B80AS

Dimensions:
119 x 526 mm
4.69 x 20.71 in



B85

Dimensions:
119 x 526 mm
4.69 x 20.71 in



B86

Dimensions:
119 x 526 mm
4.69 x 20.71 in



B220

Dimensions:
202 x 524 mm
7.95 x 20.63 in



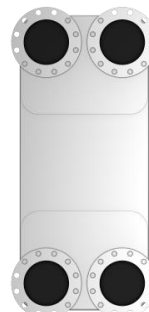
B320HT

Dimensions:
243 x 525 mm
9.57 x 20.67 in



B320LT

Dimensions:
243 x 525 mm
9.57 x 20.67 in



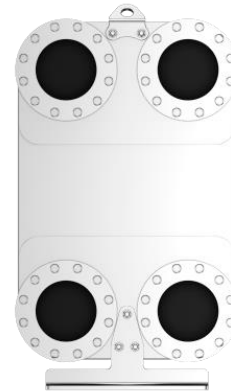
B427

Dimensions:
304 x 694 mm
11.97 x 27.32 in



B439

Dimensions:
304 x 979 mm
38.57 x 11.98 in



B633

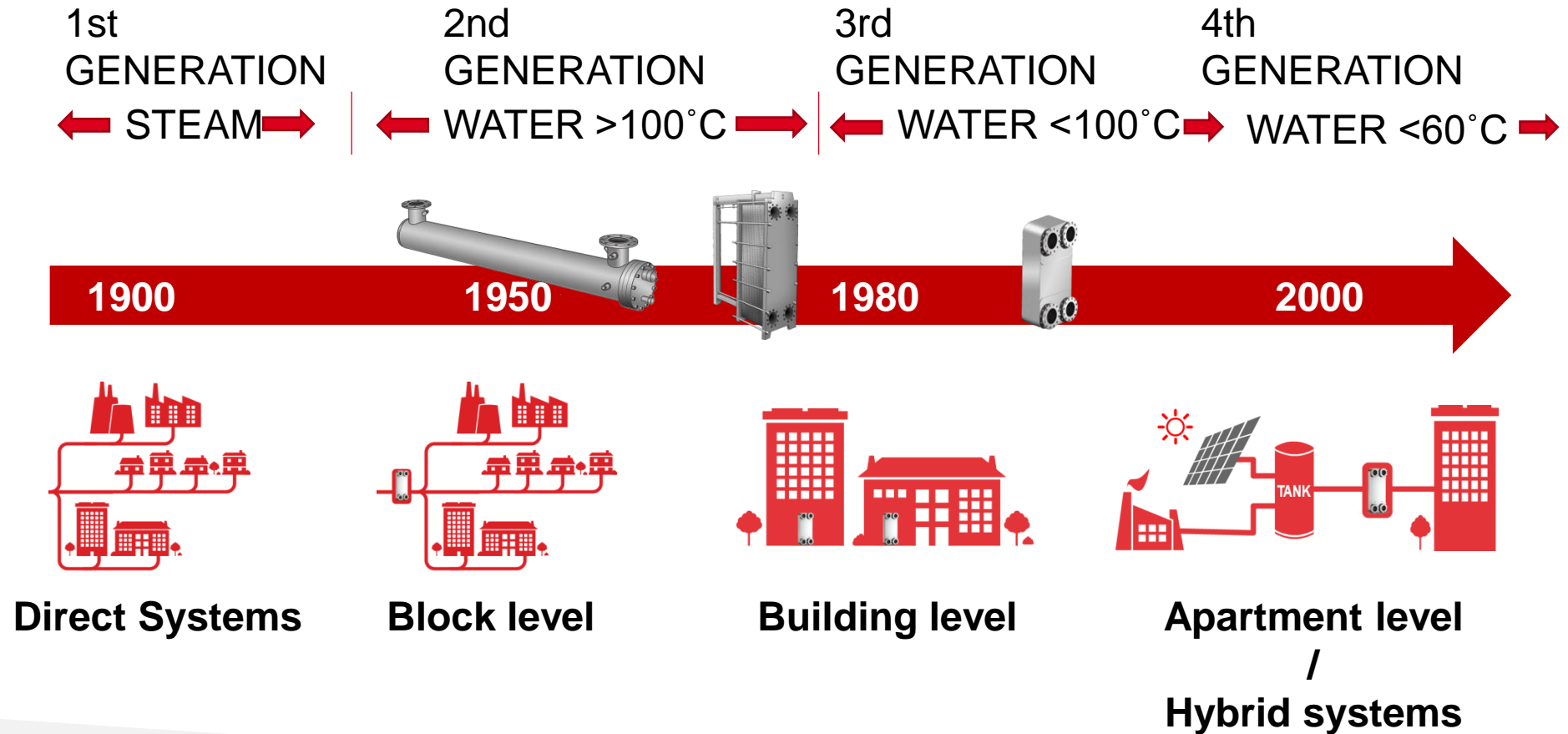
Dimensions:
537 x 830 mm
21.14 x 32.68 in



B649

Dimensions:
537mm x 1232 mm
21.14 x 48.5 in

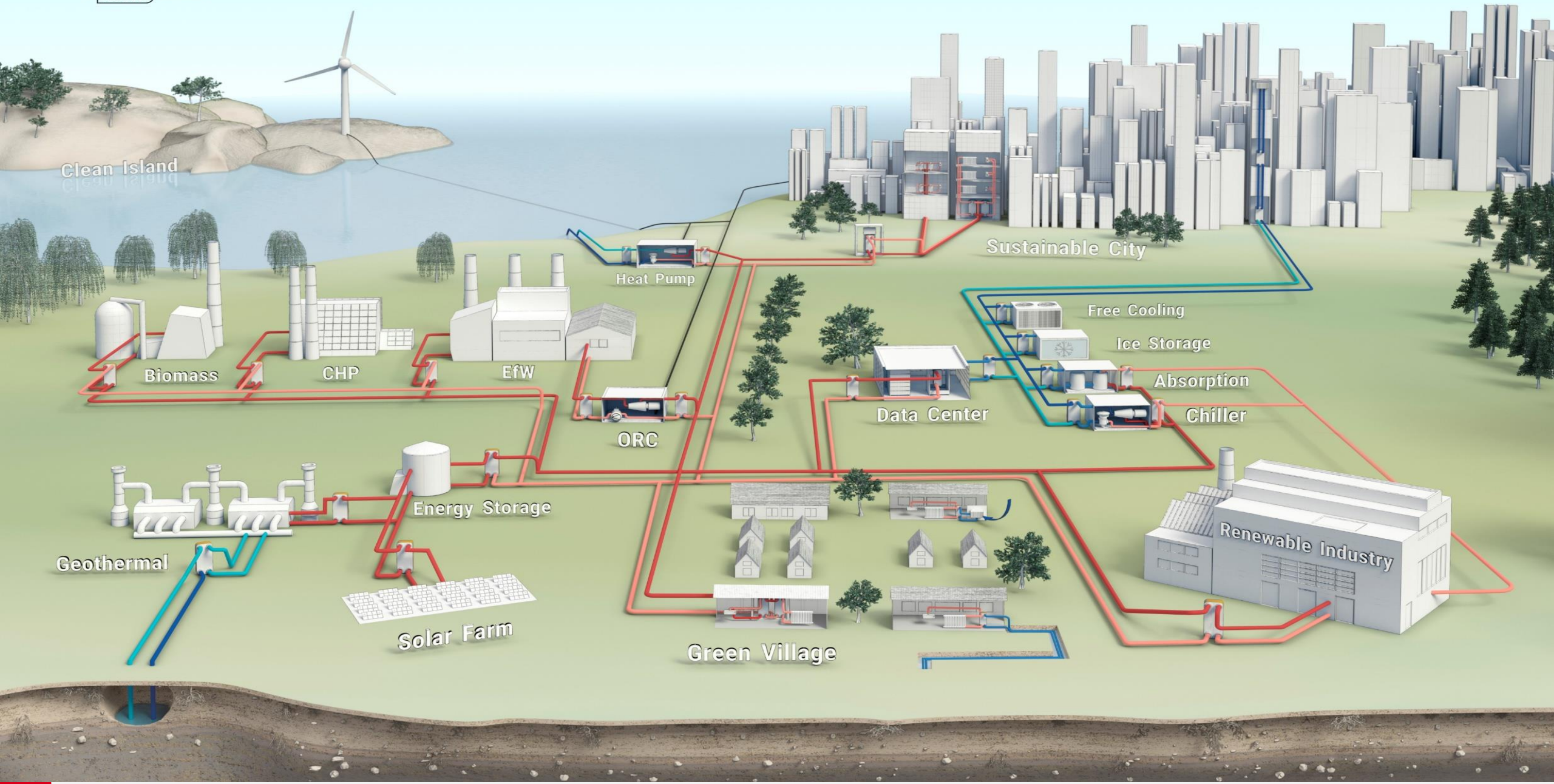
Evolution of Energy Transfer Stations



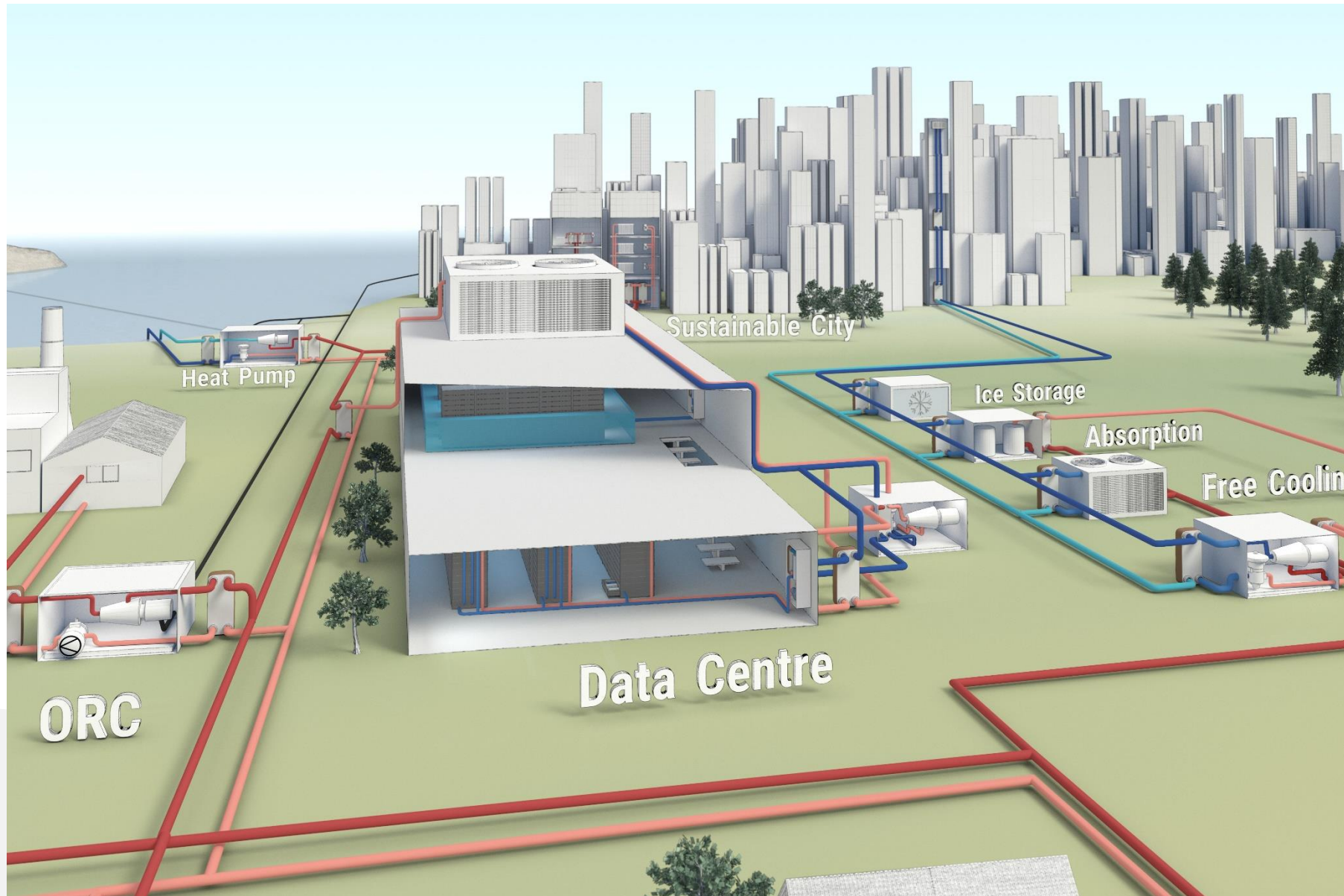
BPHE Application in District Heating



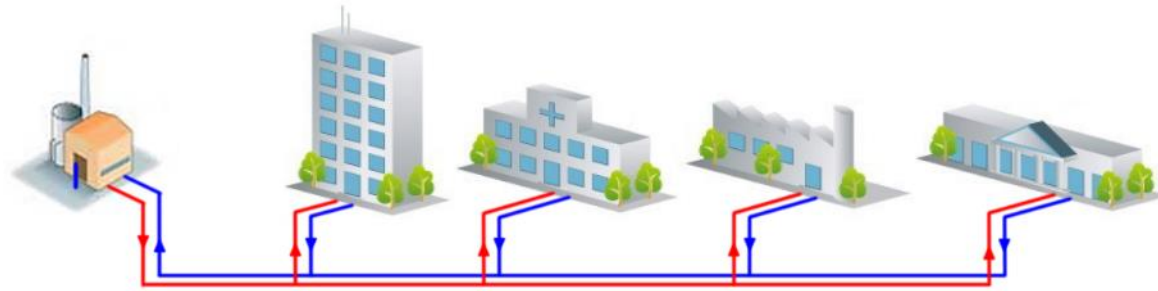
Sustainable District Energy Chart



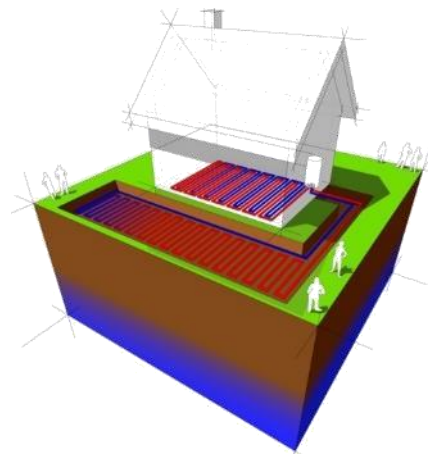
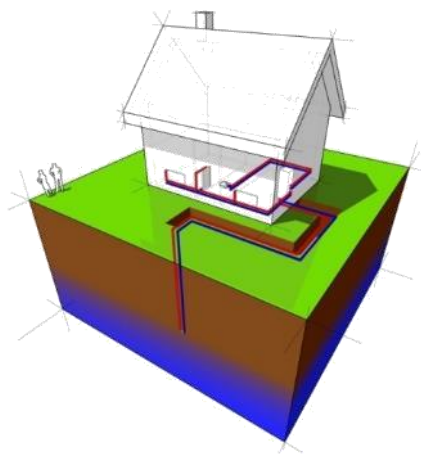
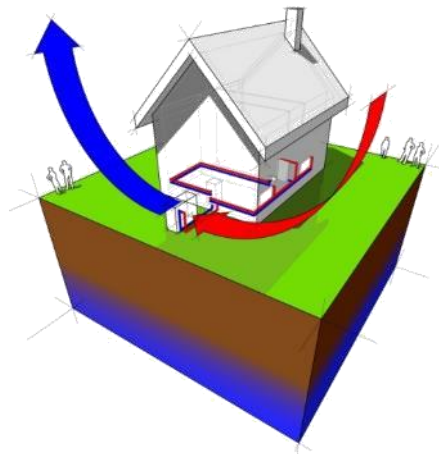
Mechanical cooling and Heat Recovery of Data Centres



Heat pump in district heating.....



.....and residential heat pumps



What Sealix[®] can do!



The smart solution

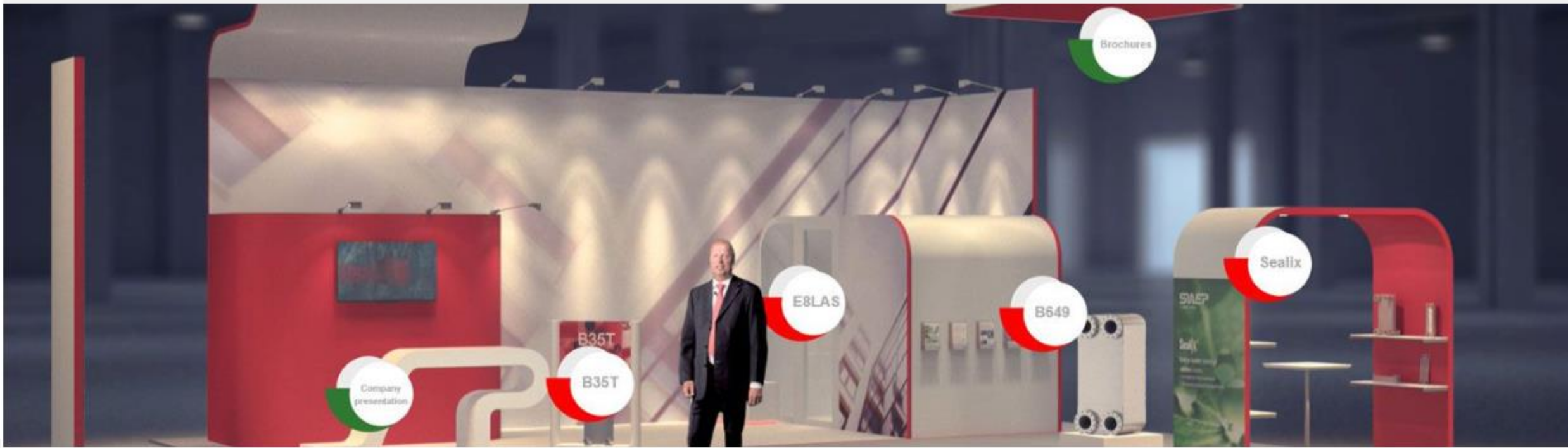
Sealix[®] keeps water running

SWEP Sealix[®] range consist of a range of BPHE which uses thin-film technology to seal the inner surfaces of the brazed plate heat exchanger with a protective layer of SiO₂ to enhance the resistance of the BPHEs in terms of:

- ⊕ CORROSION
 - The ceramic nature of the SiO₂ -based Sealix[®] layer improves corrosion stability.
- ⊕ SCALING
 - Organic functionalities that are present in the Sealix protective layer, modify the surface energy and thus improve the surface behavior in terms of scaling.
- ⊕ LEACHING
 - Metal leaching is decreased by sealing the surfaces in contact with water.
- ⊕ THERMAL & HYDRAULIC PERFORMANCE NOT AFFECTED
 - While providing the above-mentioned advantages, the Sealix[®] thin-film technology, maintains the high thermal and hydraulic performance of BPHEs.

Visit www.swep.net and Virtual Showroom

SWEP
A DOMEC COMPANY



Visit our Virtual Stand for District Energy

<http://swepvirtualtradeshow.com/showroom?start>

Thank You!



For more information, please contact:

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