

# CELSIUS Talk:

New approaches to understanding  
and evaluating the risks of DH  
investments

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**celsius**  
● ● ● ● ●  
smart cities

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# *New approaches to understanding the risks of DH investments*



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**1. Initial assumptions**

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**2. Design & Construction**

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**3. Exploitation**

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- a) Type of customers  (Energy consumption)
- b) Rhythm of connections
- c) Evolution of primary energies/pricing  (formula)
- d) Evolution of financing costs.



**Business Plan**



- a) Engineering assumptions
  - i. Primary and secondary energies
    - Water temperatures
  - ii. Adaptability
  - iii. Future connections vs increased pumping needs
- b) Piping (lying difficulties and hidden costs)



- a) Primary energies
  - i. Sourcing, Pricing
  - ii. Alternatives
- b) Customers
  - i. Rhythm and location of new entries
  - ii. Power contracted
- c) Legislation Changes

**Thank you**

**Juan A. De Molina**

