SHALLOW GEOTHERMAL TECHNOLOGY

Dynamic Close Loop DCL®

CASE STUDIES

14 JUNE 2022 | EUROPEAN SHALLOW GEOTHERMAL DAYS 22
**CASE STUDY: ENDOWMENT B. (Valencia SPAIN):**

**11 WELLS  450 kW HVAC Capacity**

**PREMISES**
- HERITAGE BUILDINGS. CITY CENTER
- CURRENT AIR TO WATER HEAT PUMP
- FOOTPRINT LIMITATIONS
- HVAC FOR OFFICES, CLASSROOMS, DHW AND POOL.

**SOLUTION**
- DCL GEOTHERMAL GSHP

11 DCL PROBE + GSHP 450 kW

350.000 kWh ENERGY DEMAND

PERFORMANCE COP 5.1 | EER 4.2

62% COSTS SAVINGS

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**POZOS**

**Modo frío activado (verano)**

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**GRUPO itecon**

**DCL Geoenergía**
CASE STUDY: RESIDENTIAL (Valencia SPAIN): 2 WELLS 70 kW HVAC Capacity

PREMISES
- NEW CONSTRUCTION WITH EXISTING FACADE. CITY CENTER
- HIGH CONSTRUCTION STANDARDS
- FOOTPRINT LIMITATIONS
- HVAC FOR HOUSEHOLDS, DHW AND POOL.

SOLUTION
- DCL GEOTHERMAL GSHP + FV + RADIANT FLOOR+AIR HP

2 DCL PROBE 70 kW + 70 kW AIR HP

200.000 kWh ENERGY DEMAND

PERFORMANCE COP 5.1 | EER 4.2

55% COSTS SAVINGS
CASE STUDY: EDUCATIONAL (NETHERLANDS) :

1 WELL  80 kW HVAC Capacity

PREMISES

• SCHOOL. AREA 1000 m2
• GAS BURN CUTOUT TO GSHP
• FOOTPRINT LIMITATIONS
• COOLING CAPACITY AS A PLUS

SOLUTION

• DCL GEOTHERMAL PROBE+ FV + LOW TEMPERATURE TERMINALS

1 DCL PROBE M3/200 80 kW + GSHP

150.000 kWh ENERGY DEMAND

FREE COOLING | COP 5.1 | EER 25

72% COSTS SAVINGS
CASE STUDY: INDUSTRIAL (Alicante SPAIN):

9 WELLS  400 kW Cooling Capacity

PREMISES

• DRY COOLER TO CONDENSE UP TO 400 kW
• INDUSTRIAL PROCES WITHIN THE ALIMENTARY SECTOR
• HIGH DAILY TEMPERATURES IN SUMMER
• DHW FOR CLEANING THE FACILITIES UP TO 250 kW

SOLUTION

• DCL GEOTHERMAL FIELD

9 DCL PROBE M3/140 45 kW

800.000 kWh ENERGY DEMAND

PERFORMANCE DCL/DRY COOLER 2.5-7

65% COSTS SAVINGS
COMING SOON...

MUSEO DE LAS CIENCIAS PRINCIPE FELIPE | ENDOWMENT
HVAC LOADS: 6.500 kW (4.500 kW GEO)
45 M3/250 DCL PROBES

HIGH COURT OF JUSTICE CV ENDOWMENT B.
HVAC 450 kW GEOTHERMAL | 6 DCL PROBES 80 kW

HOSPITAL DR. PESET ENDOWMENT B.
HVAC 1600 kW GEOTHERMAL | 16 DCL PROBES 100 kW
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