Sector: Residential Apartments  
Alternative Scenario: Electricity  
Split unit - Heat pumps  
System Boundary: Nicosia

Energy demand of Residential - Apartments

Technical potential of Split unit - Heat pumps fueled by Electricity

FNPV: 209.8 M€  
ENPV: 372.5 M€
Sector: Residential  Single
Alternative Scenario: Solar
System Boundary: Nicosia

Energy demand of Residential - Single
Technical potential of Solar panels fueled by Solar

FNPV: 20.3 M€  ENPV: 89.1 M€
Sector: Residential  Single  
Alternative Scenario: Electricity  
Split unit - Heat pumps

System Boundary: Nicosia  
Energy demand of Residential - Single

Technical potential of Split unit - Heat pumps fueled by Electricity

FNPV: 120.0 M€  ENPV: 227.8 M€
Sector: Residential Row  Alternative Scenario: Solar
System Boundary: Nicosia
Energy demand of Residential - Row
Technical potential of Solar panels fueled by Solar

Energy demand (GWh)
0 100 200 300
2013 2023 2033 2043
Energy potential (GWh)

ENPV
FNPV

FNPV: 19.9 M€  ENPV: 92.0 M€
Sector: Residential Row  
Alternative Scenario: Electricity  
Split unit - Heat pumps

System Boundary: Nicosia

Energy demand of Residential - Row

Technical potential of Split unit - Heat pumps fueled by Electricity

FNPV: 76.9 M€  
ENPV: 172.5 M€
Sector: Service Schools

Alternative Scenario: Electricity

System Boundary: Nicosia

Energy demand of Service - Schools

Technical potential of Split unit - Heat pumps fueled by Electricity

Energy demand (GWh)
0 20 40 60
2013 2023 2033 2043

Energy potential (GWh)
20 40 60
2013 2023 2033 2043

FNPV: 20.0 M€ ENPV: 37.9 M€
Sector: Service Offices
Alternative Scenario: Electricity
System Boundary: Nicosia

Energy demand of Service - Offices

Technical potential of Split unit - Heat pumps fueled by Electricity

Economic NPV (M €)

Energy demand (GWh)

Energy potential (GWh)

FNPV: 49.2 M€
ENPV: 90.5 M€
Sector: Service Shopping
Alternative Scenario: Electricity
Split unit - Heat pumps

System Boundary: Nicosia

Energy demand of Service - Shopping

Technical potential of Split unit - Heat pumps fueled by Electricity

Energy demand (GWh)


Energy potential (GWh)

2013 2023 2033 2043

ENPV

FNPV

FNPV: 24.8 M€
ENPV: 44.4 M€
**Sector:** Service  
**Healthcare**  

**Alternative Scenario:** Electricity  

**System Boundary:** Nicosia  

**Energy demand of Service - Healthcare**

**Technical potential of Heat pumps fueled by Electricity**

**FNPV:** 7.6 M€  
**ENPV:** 36.6 M€
Sector: Service Healthcare  
System Boundary: Nicosia  
Alternative Scenario: Solar

Energy demand of Service - Healthcare

Technical potential of Solar panels fueled by Solar

FNPV: 13.7 M€  
ENPV: 48.7 M€
Sector: Service     Alternative Scenario: Electricity
Healthcare     Split unit - Heat pumps

System Boundary: Nicosia

Energy demand of Service - Healthcare

Technical potential of Split unit - Heat pumps fueled by Electricity

FNPV: 26.3 M€     ENPV: 58.0 M€
Sector: Service Catering  
Alternative Scenario: Electricity  
Split unit - Heat pumps  
System Boundary: Nicosia  
Energy demand of Service - Catering  
Technical potential of Split unit - Heat pumps fueled by Electricity  

Energy demand (GWh)

Technical potential (GWh)

FNPV: 8.8 M€  
ENPV: 16.0 M€
**Sector:** Service Other

**Alternative Scenario:** Electricity

**System Boundary:** Nicosia

**Energy demand of Service - Other**

**Technical potential of Split unit - Heat pumps fueled by Electricity**

**FNPV:** 22.8 M€  **ENPV:** 43.2 M€
**Sector:** Residential Apartments

**Alternative Scenario:** Electricity

**System Boundary:** Paphos

**Energy demand of Residential - Apartments**

**Technical potential of Split unit - Heat pumps fueled by Electricity**

**FNPV:** 52.9 M€

**ENPV:** 93.7 M€
Sector: Residential Single Alternative Scenario: Solar Solar panels
System Boundary: Paphos

Energy demand of Residential - Single

Technical potential of Solar panels fueled by Solar

- FNPV: 2.2 M€
- ENPV: 14.0 M€
**Sector:** Residential Single  
**Alternative Scenario:** Electricity Split unit - Heat pumps

**System Boundary:** Paphos

**Energy demand of Residential - Single**

**Technical potential of Split unit - Heat pumps fueled by Electricity**

**FNPV:** 23.9 M€  
**ENPV:** 44.0 M€
**Sector:** Residential Row

**Alternative Scenario:** Solar

**System Boundary:** Paphos

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**Energy demand of Residential - Row**

![Energy demand graph]

**Technical potential of Solar panels fueled by Solar**

![Technical potential graph]

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**FNPV:** 4.3 M€  
**ENPV:** 20.0 M€
Sector: Residential Row  
Alternative Scenario: Electricity

System Boundary: Paphos

Energy demand of Residential - Row

Technical potential of Split unit - Heat pumps fueled by Electricity

Energy demand (GWh)

Technical potential (GWh)

FNPV: 16.4 M€  
ENPV: 37.1 M€
**Sector:** Service Schools  
**Alternative Scenario:** Electricity  
**System Boundary:** Paphos

**Energy demand of Service - Schools**

**Technical potential of Split unit - Heat pumps fueled by Electricity**

**FNPV:** 3.7 M€  
**ENPV:** 7.2 M€
Sector: Service Offices  
Alternative Scenario: Electricity

System Boundary: Paphos

Energy demand of Service - Offices

Technical potential of Split unit - Heat pumps fueled by Electricity

FNPV: 6.0 M€  
ENPV: 11.0 M€
Sector: Service Shopping
Alternative Scenario: Electricity
System Boundary: Paphos

Energy demand of Service - Shopping

Technical potential of Split unit - Heat pumps fueled by Electricity

FNPV: 9.4 M€
ENPV: 16.6 M€
Sector: Service
Healthcare

Alternative Scenario: Electricity

System Boundary: Paphos

Energy demand of Service - Healthcare

Technical potential of Heat pumps fueled by Electricity

FNPV: 0.3 M€
ENPV: 7.2 M€
Sector: Service Healthcare  Alternative Scenario: Solar
System Boundary: Paphos
Energy demand of Service - Healthcare

Technical potential of Solar panels fueled by Solar

FNPV: 0.3 M€  ENPV: 7.9 M€
**Sector:** Service Healthcare  
**Alternative Scenario:** Electricity  
**System Boundary:** Paphos

**Energy demand of Service - Healthcare**

![Graph showing energy demand over time](image)

**Technical potential of Split unit - Heat pumps fueled by Electricity**

![Graph showing technical potential over time](image)

**FNPV:** 6.7 M€  
**ENPV:** 14.5 M€
**Sector:** Service Catering  
**Alternative Scenario:** Electricity  
**System Boundary:** Paphos  
**Energy demand of Service - Catering**  
**Technical potential of Split unit - Heat pumps fueled by Electricity**

**Energy demand**
- **Baseline:**
  - 2013: 20 GWh
  - 2023: 40 GWh
- **Alternative:**
  - 2013: 20 GWh
  - 2023: 40 GWh
- **Energy potential**
  - 2013: 0 GWh
  - 2023: 40 GWh

**Financial NPV (FNPV):** 7.0 M€  
**Environmental NPV (ENPV):** 12.7 M€
Sector: Service  Other
Alternative Scenario: Electricity

System Boundary: Paphos

Energy demand of Service - Other

Technical potential of Split unit - Heat pumps fueled by Electricity

FNPV: 2.2 M€  ENPV: 4.1 M€
Sector: Residential Apartments

Alternative Scenario: Electricity

System Boundary: Limassol

Energy demand of Residential - Apartments

Technical potential of Split unit - Heat pumps fueled by Electricity

FNPV: 121.5 M€
ENPV: 215.9 M€
Sector: Residential Single
Alternative Scenario: Solar
System Boundary: Limassol

Energy demand of Residential - Single

Technical potential of Solar panels fueled by Solar

FNPV: 7.6 M€
ENPV: 53.6 M€
**Sector:** Residential Single  
**Alternative Scenario:** Electricity  
**System Boundary:** Limassol  

**Energy demand of Residential - Single**

**Technical potential of Split unit - Heat pumps fueled by Electricity**

**FNPV:** 96.8 M€  
**ENPV:** 177.3 M€
Sector: Residential Row Alternative Scenario: Solar

System Boundary: Limassol

Energy demand of Residential - Row

Technical potential of Solar panels fueled by Solar

FNPV: 15.2 M€ ENPV: 63.0 M€
Sector: Residential Row

Alternative Scenario: Electricity

System Boundary: Limassol

Energy demand of Residential - Row

Technical potential of Split unit - Heat pumps fueled by Electricity

FNPV: 72.7 M€
ENPV: 143.3 M€
Sector: Service Schools  
Alternative Scenario: Electricity

System Boundary: Limassol

Energy demand of Service - Schools

Technical potential of Split unit - Heat pumps fueled by Electricity

FNPV: 11.4 M€  
ENPV: 21.7 M€
Sector: Service Offices  
Alternative Scenario: Electricity  
System Boundary: Limassol  
Energy demand of Service - Offices  
Technical potential of Split unit - Heat pumps fueled by Electricity

**Energy demand of Service - Offices**

**Technical potential of Split unit - Heat pumps fueled by Electricity**

**FNPV:** 22.8 M€  
**ENPV:** 41.9 M€
Sector: Service Shopping  Alternative Scenario: Electricity
System Boundary: Limassol  Split unit - Heat pumps
Energy demand of Service - Shopping

Technical potential of Split unit - Heat pumps fueled by Electricity

FNPV: 13.9 M€  ENPV: 25.0 M€
Sector: Service  Healthcare  Alternative Scenario: Electricity
System Boundary: Limassol

Energy demand of Service - Healthcare

Technical potential of Split unit - Heat pumps fueled by Electricity

FNPV: 2.9 M€  ENPV: 7.3 M€
Sector: Service Catering  
Alternative Scenario: Electricity  
System Boundary: Limassol  

**Energy demand of Service - Catering**

**Technical potential of Split unit - Heat pumps fueled by Electricity**

**FNPV:** 8.7 M€  
**ENPV:** 15.7 M€
Sector: Service Other

Alternative Scenario: Electricity

System Boundary: Limassol

Energy demand of Service - Other

Technical potential of Split unit - Heat pumps fueled by Electricity

FNPV: 12.1 M€  ENPV: 23.1 M€
**Sector:** Residential Apartments  
**Alternative Scenario:** Electricity  
**System Boundary:** Larnaca

**Energy demand of Residential - Apartments**

**Technical potential of Split unit - Heat pumps fueled by Electricity**

**FNPV:** 53.4 M€  
**ENPV:** 95.0 M€
**Sector**: Residential  Single  
**Alternative Scenario**: Solar  
**System Boundary**: Larnaca  

**Energy demand of Residential - Single**

**Technical potential of Solar panels fueled by Solar**

**FNPV**: 1.6 M€  
**ENPV**: 11.4 M€
Sector: Residential Single
Alternative Scenario: Electricity Split unit - Heat pumps
System Boundary: Larnaca

Energy demand of Residential - Single

Technical potential of Split unit - Heat pumps fueled by Electricity

FNPV: 20.6 M€  ENPV: 37.7 M€
Sector: Residential Row  
Alternative Scenario: Solar

System Boundary: Larnaca

Energy demand of Residential - Row

Technical potential of Solar panels fueled by Solar

FNPV: 5.9 M€  
ENPV: 26.6 M€
**Sector:** Residential Row  
**Alternative Scenario:** Electricity  
**System Boundary:** Larnaca  

**Energy demand of Residential - Row**

- **Energy demand (GWh):** 2013 - 2049

**Technical potential of Split unit - Heat pumps fueled by Electricity**

- **Energy potential (GWh):** 2013 - 2049

**FNPV:** 23.1 M€  
**ENPV:** 50.8 M€
Sector: Service Schools

Alternative Scenario: Electricity

System Boundary: Larnaca

Energy demand of Service - Schools

Technical potential of Split unit - Heat pumps fueled by Electricity

**Technical potential**:

- **Energy demand (GWh)**
  - 2013: 0
  - 2023: 4
  - 2033: 6
  - 2043: 8

**Technical potential of Split unit**:

- **Energy potential (GWh)**
  - 2013: 0
  - 2023: 4
  - 2033: 6
  - 2043: 8

**Financial Performance**:

- **FNPV**: 3.3 M€
- **ENPV**: 6.3 M€
Sector: Service Offices

Alternative Scenario: Electricity

System Boundary: Larnaca

Energy demand of Service - Offices

Technical potential of Split unit - Heat pumps fueled by Electricity

FNPV: 8.1 M€
ENPV: 14.9 M€
Sector: Service  
Shopping  

Alternative Scenario: Electricity

System Boundary: Larnaca

Energy demand of Service - Shopping

Technical potential of Split unit - Heat pumps fueled by Electricity

FNPV: 4.9 M€  
ENPV: 8.7 M€
**Sector:** Service Healthcare  
**Alternative Scenario:** Electricity  
**System Boundary:** Larnaca  
**Energy demand of Service - Healthcare**

- **Energy demand (GWh):**
  - 2013: 10  
  - 2023: 20  
  - 2033: 30  
  - 2043: 40

**Technical potential of Heat pumps fueled by Electricity**

- **Energy potential (GWh):**
  - 2013: 10  
  - 2023: 20  
  - 2033: 30  
  - 2043: 40

**FNPV:** 1.7 M€  
**ENPV:** 9.4 M€
Sector: Service  Healthcare  Alternative Scenario: Solar  Solar panels
System Boundary: Larnaca  BASELINE  ALTERNATIVE
Energy demand of Service - Healthcare
Technical potential of Solar panels fueled by Solar

Energy demand (GWh)
0  10  20  30  40  2013 2023 2033 2043
Energy potential (GWh)
0  10  20  30  40  2013 2023 2033 2043

ENPV
-10  -5  0  5  10  15  20  25  2013 2023 2033 2043
FNPV
-10  -8  -6  -4  -2  0  2.0  4.0

FNPV: 2.8 M€  ENPV: 11.7 M€
Sector: Service Healthcare  
Alternative Scenario: Electricity

System Boundary: Larnaca

Energy demand of Service - Healthcare

Technical potential of Split unit - Heat pumps fueled by Electricity

FNPV: 7.5 M€  
ENPV: 16.0 M€
**Sector:** Service Catering  
**Alternative Scenario:** Electricity  
**System Boundary:** Larnaca

**Energy demand of Service - Catering**

**Technical potential of Split unit - Heat pumps fueled by Electricity**

**FNPV:** 2.9 M€   **ENPV:** 5.2 M€
**Sector:** Service Other  
**Alternative Scenario:** Electricity  
**System Boundary:** Larnaca

**Energy demand of Service - Other**

**Technical potential of Split unit - Heat pumps fueled by Electricity**

**FNPV:** 4.6 M€  
**ENPV:** 8.9 M€
Sector: Residential Apartments

Alternative Scenario: Electricity

System Boundary: Low energy demand areas

Energy demand of Residential - Apartments

Technical potential of Split unit - Heat pumps fueled by Electricity

FNPV: 151.9 M€
ENPV: 269.2 M€
Sector: Residential Single  
Alternative Scenario: Solar

System Boundary: Low energy demand areas

Energy demand of Residential - Single

Technical potential of Solar panels fueled by Solar

Economic NPV (M mill Euro)

FNPV: 132.8 M€  ENPV: 610.4 M€
**Sector:** Residential Single  
**Alternative Scenario:** Electricity Split unit - Heat pumps

**System Boundary:** Low energy demand areas

**Energy demand of Residential - Single**

**Technical potential of Split unit - Heat pumps fueled by Electricity**

**FNPV:** 550.8 M€  
**ENPV:** 1196.4 M€
Sector: Residential Row
Alternative Scenario: Solar
System Boundary: Low energy demand areas

Energy demand of Residential - Row

Technical potential of Solar panels fueled by Solar

FNPV: 12.0 M€  ENPV: 165.3 M€
Sector: Residential Row
Alternative Scenario: Electricity
System Boundary: Low energy demand areas

Energy demand of Residential - Row

Technical potential of Split unit - Heat pumps fueled by Electricity

FNPV: 67.3 M€  ENPV: 248.7 M€
Sector: Service Schools  
Alternative Scenario: Electricity

System Boundary: Low energy demand areas

Energy demand of Service - Schools

Technical potential of Split unit - Heat pumps fueled by Electricity

FNPV: 26.0 M€  
ENPV: 49.5 M€
**Sector:** Service Offices  
**Alternative Scenario:** Electricity  
**System Boundary:** Low energy demand areas

**Energy demand of Service - Offices**

**Technical potential of Split unit - Heat pumps fueled by Electricity**

**FNPV:** 56.9 M€  
**ENPV:** 104.5 M€
**Sector:** Service Airports  
**Alternative Scenario:** Electricity  
**System Boundary:** Low energy demand areas

**Energy demand of Service - Airports**

**Technical potential of Split unit - Heat pumps fueled by Electricity**

**FNPV:** 4.0 M€  
**ENPV:** 7.1 M€
Sector: Service Shopping
Alternative Scenario: Electricity
System Boundary: Low energy demand areas

Energy demand of Service - Shopping

Technical potential of Split unit - Heat pumps fueled by Electricity

FNPV: 31.2 M€
ENPV: 55.8 M€
**Sector:** Service  
**Healthcare**  
**Alternative Scenario:** Electricity  
**Heat pumps**  

**System Boundary:** Low energy demand areas  

**Energy demand of Service - Healthcare**

**Technical potential of Heat pumps fueled by Electricity**

**FNPV:** 4.2 M€  
**ENPV:** 22.7 M€
Sector: Service Healthcare  
Alternative Scenario: Solar

System Boundary: Low energy demand areas

Energy demand of Service - Healthcare

Technical potential of Solar panels fueled by Solar

FNPV: 8.6 M€  
ENPV: 31.3 M€
Sector: Service Healthcare
Alternative Scenario: Electricity
System Boundary: Low energy demand areas

Energy demand of Service - Healthcare

Technical potential of Split unit - Heat pumps fueled by Electricity

FNPV: 15.6 M€  ENPV: 35.7 M€
Sector: Service Catering
Alternative Scenario: Electricity
System Boundary: Low energy demand areas

Energy demand of Service - Catering
Technical potential of Split unit - Heat pumps fueled by Electricity

FNPV: 30.1 M€  ENPV: 54.5 M€
Sector: Service Other

Alternative Scenario: Electricity

Split unit - Heat pumps

System Boundary: Low energy demand areas

Energy demand of Service - Other

Technical potential of Split unit - Heat pumps fueled by Electricity

FNPV: 29.4 M€

ENPV: 55.6 M€
Sector: Industry  Other minerals  Alternative Scenario: Electricity
System Boundary: Low energy demand areas

Energy demand of Industry - Other minerals

Technical potential of Resistance heaters fueled by Electricity

FNPV: 0.2 M€  ENPV: -2.1 M€
Sector: Industry
Other minerals
Alternative Scenario: Solar

System Boundary: Low energy demand areas

Energy demand of Industry - Other minerals

Technical potential of Solar panels fueled by Solar

FNPV: 0.7 M€
ENPV: 1.7 M€
Sector: Industry Other minerals

Alternative Scenario: Municipal waste

System Boundary: Low energy demand areas

Energy demand of Industry - Other minerals

Technical potential of CHP fueled by Municipal waste

FNPV: 2.0 M€  ENPV: 4.7 M€
**Sector:** Industry  Other minerals  **Alternative Scenario:** Municipal waste  Efficient boilers  

**System Boundary:** Low energy demand areas

**Energy demand of Industry - Other minerals**

**Technical potential of Efficient boilers fueled by Municipal waste**

**FNPV:** 1.6 M€  **ENPV:** 3.8 M€
**Sector:** Industry  
**Industry:** Cement  
**Alternative Scenario:** Electricity  
**Resistance heaters**

**System Boundary:** Low energy demand areas

**Energy demand of Industry - Cement**

**Technical potential of Resistance heaters fueled by Electricity**

**Energy demand (GWh)**

**Energy potential (GWh)**

**ENPV**

**FNPV**

**FNPV:** 0.8 M€  
**ENPV:** -0.6 M€
**Sector:** Industry  
**Cement**  
**Alternative Scenario:** Solar

**System Boundary:** Low energy demand areas

**Energy demand of Industry - Cement**

**Technical potential of Solar panels fueled by Solar**

**FNPV:** 0.7 M€  
**ENPV:** 1.7 M€
Sector: Industry Cement
Alternative Scenario: Municipal waste CHP
System Boundary: Low energy demand areas
Energy demand of Industry - Cement
Technical potential of CHP fueled by Municipal waste

FNPV: 1.9 M€
ENPV: 4.7 M€
Sector: Industry  Cement  
Alternative Scenario: Municipal waste  Efficient boilers  
System Boundary: Low energy demand areas  

**Energy demand of Industry - Cement**

**Technical potential of Efficient boilers fueled by Municipal waste**

**FNPV:** 1.6 M€  **ENPV:** 3.8 M€
Sector: Industry  Food, tobacco and beverages
Alternative Scenario: Solar

System Boundary: Low energy demand areas

Energy demand of Industry - Food, tobacco and beverages

Technical potential of Solar panels fueled by Solar

FNPV: 43.3 M€  ENPV: 105.1 M€
**Sector:** Industry  Food, tobacco and beverages

**Alternative Scenario:** Municipal waste  CHP

**System Boundary:** Low energy demand areas

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**Energy demand of Industry - Food, tobacco and beverages**

<table>
<thead>
<tr>
<th>Year</th>
<th>2013</th>
<th>2023</th>
<th>2033</th>
<th>2043</th>
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<td>Energy demand (GWh)</td>
<td>50</td>
<td>100</td>
<td>150</td>
<td>200</td>
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**Technical potential of CHP fueled by Municipal waste**

<table>
<thead>
<tr>
<th>Year</th>
<th>2013</th>
<th>2023</th>
<th>2033</th>
<th>2043</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy potential (GWh)</td>
<td>0</td>
<td>20</td>
<td>40</td>
<td>60</td>
</tr>
</tbody>
</table>

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**FNPV:** 50.9 M€  **ENPV:** 113.6 M€
**Sector:** Industry Food, tobacco and beverages  
**Alternative Scenario:** Municipal waste Efficient boilers  
**System Boundary:** Low energy demand areas  

**Energy demand of Industry - Food, tobacco and beverages**

**Technical potential of Efficient boilers fueled by Municipal waste**

**FNPV:** 38.3 M€  
**ENPV:** 87.2 M€
Sector: Industry  Chemicals  Alternative Scenario: Solar
System Boundary: Low energy demand areas
Energy demand of Industry - Chemicals
Technical potential of Solar panels fueled by Solar

FNPV: 1.8 M€  ENPV: 4.4 M€
Sector: Industry Chemicals
Alternative Scenario: Municipal waste CHP
System Boundary: Low energy demand areas

Energy demand of Industry - Chemicals

Technical potential of CHP fueled by Municipal waste

FNPV: 2.1 M€  ENPV: 4.7 M€
Sector: Industry  Chemicals  
Alternative Scenario: Municipal waste  Efficient boilers
System Boundary: Low energy demand areas

Energy demand of Industry - Chemicals

Technical potential of Efficient boilers fueled by Municipal waste

FNPV: 1.6 M€  ENPV: 3.6 M€
Energy demand of Industry - Other industry

Technical potential of Solar panels fueled by Solar

FNPV: 17.7 M€
ENPV: 42.4 M€
Sector: Industry  Other industry  Alternative Scenario: Municipal waste  CHP

System Boundary: Low energy demand areas

Energy demand of Industry - Other industry

Technical potential of CHP fueled by Municipal waste

FNPV: 16.5 M€  ENPV: 36.5 M€
Sector: Industry  Other industry  Alternative Scenario: Municipal waste  Efficient boilers
System Boundary: Low energy demand areas
Energy demand of Industry - Other industry

Technical potential of Efficient boilers fueled by Municipal waste

FNPV: 12.4 M€  ENPV: 28.0 M€