Case Study – Energy and AI

**Case Janaúba**

Termination Status = OPTIMAL

OV = R$ 434,477.0725789199

Time = 38.24229431152344

Line built = [1.0, -0.0, -0.0, 1.0]

**Case whole year**

Termination Status = OPTIMAL

OV = R$ 438,006.01500694634

Time = 34.253000020980835

Line built = [1.0, -0.0, -0.0, 1.0]

|  |  |  |
| --- | --- | --- |
|  | All Year | SOM 12 clusters |
| Cost | R$ 438,006.01 | R$ 434,477.07 |
| Lines | Lines 1 and 4 | Lines 1 and 4 |
| Time | 34.25 seconds | 38.24 seconds |

Case Study Bruno – Energy and AI

**Case Janaúba**

**pgmax normal**

Status = OPTIMAL

Objective Value = 754298.4570567468

Cost gen = 28924.068785219137

Geração = 3.710420706272541e7

Cost pns = 195051.6985478773

Total Imbalance Positive = 5.695509597598005e6

Total Imbalance Negative = 7.380123526537496e-8

Cost lines = 3000.0

Cost days = 527322.6897236505

Time = 100646.53200006485

Lines = [1.0, -0.0, 0.0, -0.0]

**pgmax \* 2**

352479.922

**Case whole year**

|  |  |  |
| --- | --- | --- |
|  | All Year | SOM 12 clusters |
| Cost | $ 250,222.99 | $ 250,231.91 |
| Lines | Lines 1 and 4 | Lines 1 and 4 |
| Time | 136.73 seconds | 184.22 seconds |