

# **EQUITY NOTE: PANNERGY NYRT.**

Recommendation: BUY

Target price (12M): HUF 1,072

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## **Highlights**

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Due to the higher-than-expected increase in administered prices, we raised our target price from HUF 1,046 to HUF 1,072 for the next 12 months. The new target price is 57% above Monday's closing price.

Besides, two more announcements were made: (1) the completion of the new well in Győr, which will operate in the coming winter season already, boosting capacity by at least 20%, and (2) a 2% increase in the Miskolc plant's capacity due to improvement in operational efficiency.

Based on previous information, we largely anticipated these developments. But they also demonstrate that the management is able to achieve its strategic goals: to improve operational efficiency where it is possible, keep costs at reasonable levels, and gradually gain new costumers for secondary heat sales. Over the past one year we saw exactly that: the third well in Győr was completed, EBITDA margin improved, and two new customers will buy secondary heat. Overall, we think the company is on the right track to achieve its strategic objectives.

### Announcement 1:

Pannergy announced the successful completion of its third well (BON-PE-03) in Győr. With water extraction capacity as large as 1,100 m³/h, it is expected to boost the output of the Győr project by more than 20%. The new well will operate with pumping (because the well is deeper) while the other two ones will have self-flowing regimes. It will run in self-producing mode in the first few weeks of the heating season, and then the well pump will be installed in the BON-PE-03 wells in the first half of October, PannErgy said.

### Announcement 2:

With the implementation of the heat exchangers in Kistokaj after a comprehensive conversion, the summer maintenance works of the Geothermal Power Plant of Miskolc were completed on schedule. The system, working at full capacity, is now available for Pannergy's customers. Concurrently with the maintenance works, activities to enhance pump performance were carried out. As a result, the rate of heat delivery in the system will improve by nearly 2% (by about 20 m³/h, i.e. to 12 TJ p.a.) in the coming heating season, compared to the previous one.



### Announcement 3:

The official rates for district heat production in effect from 1 October 2018, which also affect PannErgy's subsidiaries that are subject to the central regulation of district heating rates, are as follows. [The announcement was published in issue 146 of 2018 of the Hungarian Official Gazette (Magyar Közlöny) the Minister for Innovation and Technology published Decree 19/2018 (Sept 27.) of the Ministry for Innovation and Technology.]

| Location of<br>the wells | Company names               | in effect until<br>30 September<br>2018 | in effect from<br>1 October<br>2018 | Change |
|--------------------------|-----------------------------|---|-------------------------------------|--------|
| Szentlőrinc              | Szentlőrinci Geothermal Ltd | 3 654 HUF/GJ                            | 3 654 HUF/GJ                        | 0,0%   |
| Miskolc                  | Miskolci Geothermal Ltd     | 2 382 HUF/GJ                            | 2 515 HUF/GJ                        | 5,6%   |
| Miskolc                  | KUALA Ltd                   | 2 382 HUF/GJ                            | 2 515 HUF/GJ                        | 5,6%   |
| Győr                     | Arrabona Geothermal Ltd     | 2 939 HUF/GJ                            | 3 108 HUF/GJ                        | 5,8%   |

Source: Hungarian Official Gazette, issue 146/2018

### Analyst's comments:

Announcement 1: The completion of the third well is excellent news and proves that the management's initial assessment regarding the expected boost in capacity was correct. In previous reports we noted that the already operating two wells suggested that the management had the sufficient expertise to accurately estimate the expected growth in capacity. Therefore our previous analysis already factored in this 20% higher capacity. However, if the actual capacity improvement turns out to be higher than 20%, we will update our model accordingly.

Regarding Announcement 2: Improving the operational efficiency is one of the cornerstones of the management's current strategy (along with enhancing secondary heat production). The current 2% growth in output at the Miskolc plant exemplifies the realization of this strategy. Our initiation report incorporated a small rise in capacity as well, so this information is reassuring, confirming that our initial estimate was largely correct.

Concerning the increase in administrative prices (Announcement 3), we expected only 2% overall change because Pannergy's production process is established, therefore significant changes in the cost structure or in the profitability ratios are not expected. However, the administrative price setting process is a multi-step approach and it takes into account various aspects of production. These factors may include the change in the cost-structure in the 'look-back period' (usually one year), the government's strategy toward the source of heat production (for example renewable energy may be preferred), and the hike in energy (natural gas) prices. But, beyond the above, there could be other factors as well. That is why forecasting the change in administered prices is more than challenging.



As Pannergy's cost structure has not changed much, the higher administrative prices will raise revenue, therefore profit and cash-flow will improve. But we left our price forecast unchanged for industrial consumers who pay contract prices, and use different pricing structure. (This is for one of Pannergy's subsidiaries in Győr, DD Energy, which provides roughly 53% of the revenue from the Győr operation through heat sales to Audi.)

All in all, the higher administrative prices made us modify our target price for the next 12 months, raising it from HUF 1,046 to HUF 1,072.

### Risks surrounding Pannergy's economic activity

- 1. **Price risk:** The administered price is set at a level that takes into account the cost of doing business and providing a fair profit. However, the administered price setting has inherent risks related to the administrative authority.
- Moreover, at the moment Pannergy provides heat at a lower cost than its peers (natural gas). However, if natural gas prices fall significantly, costumers who do not have mandatory purchase agreement with Pannergy may switch to other sources of heat.
- 2. **Environmental risks:** Extreme weather conditions during the heating season could harm the company's profit target. If the winter season is too short or too cold because of global warming or other extreme weather conditions— the costs are higher, as the output from the drilling wells drops.
- 3. **Operational risks:** Usually the main source of risk in valuing a utility company is forecasting the maintenance costs, as it could be highly unpredictable. For example, maintenance costs increased significantly at the Győr Project in 2016 due to scaling issues concerning the tubing and pumps, and this has reduced production. If in subsequent periods, maintenance cost starts to rise for period to period, than the valuation may change accordingly.
- 4. **Improving energy efficiency risk:** It is not necessarily a Pannergy-specific risk, but in the long term, the building of passive houses and the coming investment which increases the energy efficiency of houses and flats could reduce demand for heat.



## Appendix:

| P/L Table consolidated (million HUF) | 2014  | 2015  | 2016  | 2017  | 2018F | 2019F |
|--------------------------------------|-------|-------|-------|-------|-------|-------|
| Revenue                              | 2 290 | 2 726 | 4 529 | 4 699 | 5 329 | 5 861 |
| Revenue from other operations        | 602   | 540   | 897   | 675   | 675   | 675   |
| Revenue from geothermal-heat         | 1 688 | 2 186 | 3 632 | 4 024 | 4 515 | 5 053 |
| Other revenue                        | 55    | 871   | 101   | 537   | 139   | 132   |
| OPEX                                 | 1 808 | 1 983 | 2 914 | 3 012 | 3 053 | 3 372 |
| from which: Depreciation             | 635   | 1 241 | 1 435 | 1 300 | 1 259 | 1 249 |
| EBITDA                               | 482   | 1 614 | 1 715 | 2 241 | 2 276 | 2 488 |
| EBIT                                 | -153  | 373   | 281   | 923   | 1 017 | 1 239 |
| EBT                                  | -434  | 217   | -131  | 626   | 433   | 1 027 |
| Income Taxes                         | 95    | 183   | 28    | 121   | 52    | 123   |
| Non-controlling interest             | 12    | -44   | -8    | 17    | 12    | 28    |
| Net income                           | -541  | 78    | -151  | 488   | 369   | 876   |
| EPS (HUF)                            | -30,0 | 4,3   | -8,5  | 27,6  | 20,0  | 47,5  |

| Balance sheet - consolidated (million HUF) | 2014   | 2015   | 2016   | 2017   | 2018F  | 2019F  |
|--|--------|--------|--------|--------|--------|--------|
| Non-current assets                         | 17 299 | 22 502 | 22 282 | 21 633 | 21 352 | 20 130 |
| Current assets                             | 2 419  | 4 313  | 2 978  | 3 389  | 3 706  | 4 647  |
| Total assets                               | 19 718 | 26 815 | 25 259 | 25 022 | 25 058 | 24 777 |
| Total equity                               | 9 259  | 9 331  | 8 889  | 9 025  | 9 387  | 10 250 |
| Non-current liabilities                    | 7 091  | 14 028 | 13 479 | 13 066 | 13 239 | 12 212 |
| Current liabilities                        | 3 368  | 3 459  | 2 887  | 2 931  | 2 432  | 2 316  |
| Total equity and liabilities               | 19 718 | 26 819 | 25 256 | 25 022 | 25 058 | 24 777 |

| Cash flow statement (million HUF)   | 2014   | 2015   | 2016   | 2017   | 2018F  | 2019F  |
|-------------------------------------|--------|--------|--------|--------|--------|--------|
| Profit before taxes                 | -434   | 217    | -131   | 626    | 433    | 1 027  |
| Cash flow from operations           | 561    | -173   | 775    | 1 895  | 1 422  | 1 966  |
| Cash flow from investment           | -2 248 | -4 153 | -1 632 | -1 142 | -1 047 | -92    |
| Cash flow from financing activities | 1 661  | 5 089  | 473    | -201   | -121   | -1 074 |
| Change in cash and cash equivalents | -26    | 763    | -384   | 552    | 254    | 799    |



| Valuation summary (million HUF) | 2018F | 2019F | 2020F | 2021F | 2022F | 2023F | 2024F | 2025F | 2026F | 2027F | <b>Terminal year</b> |
|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|
| Revenue from geothermal heat    | 4 765 | 5 053 | 5 154 | 5 256 | 5 361 | 5 468 | 5 576 | 5 687 | 5 801 | 5 916 | 6 035                |
| EBITDA                          | 2 386 | 2 488 | 2 508 | 2 528 | 2 547 | 2 488 | 2 506 | 2 523 | 2 489 | 2 504 | 2 554                |
| Depreciation                    | 1 259 | 1 249 | 1 258 | 1 267 | 1 276 | 981   | 990   | 999   | 717   | 726   | 726                  |
| Working capital sales           | 150   | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0                    |
| Сарех                           | 1 043 | 93    | 93    | 93    | 93    | 93    | 93    | 93    | 93    | 93    | 93                   |
| FCFF                            | 1 058 | 2 247 | 2 266 | 2 284 | 2 302 | 2 214 | 2 231 | 2 247 | 2 184 | 2 198 | 2 242                |
| WACC                            | 7,5   | 7,5   | 7,5   | 7,5   | 7,5   | 7,5   | 7,5   | 7,5   | 7,5   | 7,5   | 9,0                  |
| PV(FCFF)                        | 984   | 1 943 | 1822  | 1708  | 1 601 | 1 432 | 1 342 | 1 256 | 1 135 | 1 063 | 13 413               |

<sup>\*</sup> Weather effect for the 2018 data is removed as it is a temporal effect.

| Share price estimation               |        |
|--------------------------------------|--------|
| Enterprise value                     | 27 698 |
| Net debt ( - )                       | 8 300  |
| Equity value                         | 19 398 |
| Number of shares                     | 18 420 |
| Required return on equity            | 12     |
| Target price for the next 12 M (HUF) | 1183   |
| Current price (HUF)                  | 684    |
| Upside /Downside (%)                 | 73     |

| Company name       | Country | Market<br>capitalization<br>(billion HUF) | EV/EBITDA |
|--------------------|---------|---|-----------|
| US Geothermal      | USA     | 26,6                                      | 11,3      |
| Ormat Technologies | USA     | 719,6                                     | 10,4      |
| Alterra Power Corp | Canada  | 88,1                                      | 15,4      |
| ARISE              | Germany | 13,2                                      | 10,0      |
| FERSA              | Spain   | 19,1                                      | 9,2       |
| ABO Invest         | Germany | 20,7                                      | 6,7       |
| Northland Power    | Canada  | 776,8                                     | 12,8      |
| Falck              | Denmark | 202,4                                     | 8,5       |
|                    |         | Average                                   | 10,5      |
|                    |         | Median                                    | 10,2      |



#### Notes:

The initiation report, which contains the assumptions of the models used, is available here.

The valuation methodology used in this present equity research note to determine our price targets and recommendations is available here. (Also available in Hungarian)

This investment recommendation has not used proprietary models.

The risk warning, which includes the adequate explanations of the length of time of the investment to which the recommendation relates as well as a sensitivity analysis of the assumptions, is indicated in the part of this recommendation where the length of time and the risks of the investment are presented.

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OTP Bank Plc's recommendations and price targets history for Pannergy in the past twelve months:

| Date       | Recommendations | <b>Target Price</b> | Publication            |
|------------|-----------------|---------------------|------------------------|
| 15/12/2017 | BUY             | HUF 1,024           | Initiation of coverage |
| 16/01/2018 | BUY             | HUF 1,024           | <b>Equity note</b>     |
| 13/02/2018 | BUY             | HUF 1,024           | <b>Equity note</b>     |
| 21/03/2018 | BUY             | HUF 1,032           | <b>Equity note</b>     |
| 17/04/2018 | BUY             | HUF 1,032           | Equity note            |
| 17/07/2018 | BUY             | HUF 1,032           | Equity note            |
| 03/08/2018 | BUY             | HUF 1,032           | Equity note            |
| 04/09/2018 | BUY             | HUF 1,046           | Equity note            |

| Period | Recommendations | Percent of recommendation |
|--------|-----------------|---------------------------|
|        | BUY             | 100%                      |
| 2017Q4 | HOLD            | 0%                        |
|        | SELL            | 0%                        |
|        | BUY             | 100%                      |
| 2018Q1 | HOLD            | 0%                        |
|        | SELL            | 0%                        |
|        | BUY             | 100%                      |
| 2018Q2 | HOLD            | 0%                        |
|        | SELL            | 0%                        |
|        | BUY             | 100%                      |
| 2018Q3 | HOLD            | 0%                        |
|        | SELL            | 0%                        |

The list of all recommendations made in the past 12 months is available here.



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