### RAM / Curtailments

<table>
<thead>
<tr>
<th>Product</th>
<th>RAM day ahead</th>
<th>RAM intraday</th>
<th>Grid Curtailment</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Content</strong></td>
<td>Power price forecast based on similar weather conditions</td>
<td></td>
<td>Forecast and observation of curtailments</td>
</tr>
<tr>
<td><strong>Focus</strong></td>
<td>Purely weather-based price forecasts for day ahead</td>
<td>Vizualisation of weather model changes since day ahead auction</td>
<td>Actual and expected interventions by grid operators at a glance</td>
</tr>
<tr>
<td><strong>Your advantage</strong></td>
<td>Use intraday’s weather tendency even before day ahead auction</td>
<td>Be ahead of the market</td>
<td>Optimize portfolio forecasts and be aware of intraday risks</td>
</tr>
<tr>
<td><strong>Update cycle</strong></td>
<td>hourly until 10:00 CET</td>
<td>hourly</td>
<td>continuously</td>
</tr>
<tr>
<td><strong>Monthly price</strong></td>
<td>700,– Euro</td>
<td>700,– Euro</td>
<td>from 700,– Euro, only as add-on for RAM</td>
</tr>
<tr>
<td>package:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Contract period</strong></td>
<td>6 months</td>
<td>6 months</td>
<td>6 months</td>
</tr>
</tbody>
</table>

### About Energy Weather

» Our meteorologists and IT staff gained extensive market insight and experience in consulting, particularly in many years of direct contact with traders of leading energy-trading companies. This rich source of knowledge enables us to provide a translation of weather data into useful products for trading desks.

» Our product lineup ranges from fundamental weather data up to innovative trading strategies and is known for a high level of quality and reliability. Fast response to changing needs of market participants is important to us, as well as implementing customized solutions when needed.
**RAM day ahead**

Quantification of weather impact on power pricing for the day ahead auction.
- Naming the Top 10 daily analogies and their confidence given as matching score
- Visualization of the Energy Weather (residual) load forecasts
- Calculation of HPFC-based price expectations per analogy day to indicate price fluctuations and forecast uncertainties
- Intraday positioning: how did analogous days develop in intraday settlement?

**RAM intraday**

Analysis tool for energy traders and portfolio managers in short-term trading.
- Comparison with settlements of the historically most similar weather days
- Opportunity for position taking independent of fluctuating weather forecasts
- Continuous position controlling using ENTSO-E transparency data
- Optional: integration of curtailment forecasts

**Curtailments**

Forecast and observation data of grid curtailments of wind and solar plants.
- Continuously monitored observation data as aggregated figure of affected volumes
- Forecast of grid curtailments from intraday up to 15 days ahead
- Probabilistic risk classification of curtailment totals
- Broad variety of usage - especially in combination with RAM and automated trading
- Also available as add-on for individual portfolio forecasts