An Coimisiún um Rialáil Fóntas
Commission for Regulation of Utilities

Update on Emerging Technologies of the RfG
Reporting Period May – July 2018
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# Glossary of Terms and Abbreviations

<table>
<thead>
<tr>
<th>Abbreviation or Term</th>
<th>Definition or Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>RfG</td>
<td>Requirements for Generators, (Commission Regulation (EU) 2016/631 establishing a network code for grid connection of generator)</td>
</tr>
<tr>
<td>PGM</td>
<td>Power-generating modules</td>
</tr>
<tr>
<td>DSO</td>
<td>Distribution System Operator</td>
</tr>
<tr>
<td>TSO</td>
<td>Transmission System Operator</td>
</tr>
</tbody>
</table>
1. Introduction

1.1 Commission for Regulation of Utilities

The Commission for Regulation of Utilities (CRU) is Ireland’s independent energy and water regulator. The CRU’s mission is to regulate water, energy and energy safety in the public interest. Further information on the CRU’s role and relevant legislation can be found at www.cru.ie.

1.2 Background

Regulation 2016/631 of 14 April 2016 (RfG) is one of a suite of European network codes and guidelines that have been developed as part of the implementation of the Third Package.¹ These European network codes intend to deliver a harmonised set of rules for the operation of the gas and electricity sector in Europe.

The RfG which entered into force on 17 May 2016, established a network code which lays down the requirements for grid connection of power-generating facilities wanting to connect to the electricity network (at transmission or distribution level).

The RfG allowed generator manufacturers to apply for their generator technology to be classified as an emerging technology. Generators classified as an emerging technology will not have to comply with the RfG requirements (except for Article 30 Operational Notification).

In October 2016 the CRU published an information paper on the Application Process for Generator Classification as an Emerging Technology. In July 2017 the CRU published its decision (CER/17/119) in relation to these applications. The CRU awarded emerging technology classification under the RfG to the following technologies:

1) Baxi Heating UK Ltd:
   - Baxi Ecogen 24/1.0;
   - Baxi Ecogen 24/1.0 LPG;

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2) SenerTec GmbH:
   - Dachs Stirling SE Erdgas;
   - Dachs Stirling SE Flüssiggas.

3) ÖkoFEN:
   - Pellematic Smart_e ST16.

In accordance with the RfG, the CRU is required to monitor the sales of the emerging technologies in Ireland and publish data on the cumulative maximum capacity of PGMs classified as emerging technologies.

A requirement of this classification is that every two months the manufacturer of a PGM classified as an emerging technology submits an update of the sales of the module in Ireland for the preceding two months.

If a manufacturer of PGMs classified as an emerging technology fails to comply with the reporting requirements outlined in decision (CER/17/119), the CRU will withdraw the emerging technology classification for that specific PGM technology. The CRU will inform all manufacturers of any emerging technologies of this and a withdrawal decision will be published on the CRU’s website.

The purpose of this paper is to publish data on the cumulative maximum capacity of PGMs classified as emerging technologies in Ireland.

### 1.3 Related documents

- [Commission Regulation (EU) 2016/631 Requirements for Generators of 14 April 2016](#);
- [CER/16/305: Application Process for Generator Classification as an Emerging Technology – according to RfG](#);
- [CER/17/119: Decision Paper - Generator Classification as an Emerging Technology – according to the RfG](#);
- A list of previous CRU monitoring reports can be found in the Appendix
2. Update on Emerging Technologies of the RfG

2.1 Reporting Period May - July 2018

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Emerging Technology</th>
<th>Sales this Period</th>
<th>Total Sales up to this Reporting Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baxi Heating UK Ltd</td>
<td>Baxi Ecogen 24/1.0</td>
<td>0kW</td>
<td>3kW</td>
</tr>
<tr>
<td></td>
<td>Baxi Ecogen 24/1.0</td>
<td>0kW</td>
<td>0kW</td>
</tr>
<tr>
<td></td>
<td>LPG</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Baxi Ecogen System</td>
<td>0kW</td>
<td>0kW</td>
</tr>
<tr>
<td>ÖkoFEN²</td>
<td>Pellematic Smart_e</td>
<td>0kW</td>
<td>0kW</td>
</tr>
<tr>
<td></td>
<td>ST16</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Sales up to this Reporting Period: 3kW

All manufacturers of PGMs classified as an emerging technology have demonstrated that the DSO has been informed of the installation of these PGMs.

A single classified technology continues to be classified as emerging technology until the amount of cumulative connected capacity of that PGM has reached 1.579MW in the synchronous area.

Also, in the event that the cumulative maximum capacity of all PGMs classified as emerging technologies connected to the Irish network exceeds 4.572MW, the emerging technology classification will be withdrawn.

² The CRU has not received an updated from ÖkoFen for this reporting period and therefore the value from the previous reporting period has been carried forward.
2.2 Decision to Withdraw Emerging Technology Classification

2.2.1 Initial Classification
In accordance with the criteria outlined in Articles 66-68 of the RfG, in its decision paper CER/17/119, the CRU classified two SenerTec Kraft-Wärme-Energiesysteme GmbH (“SenerTec”) products as emerging technologies, they were:

- Dachs Stirling SE Erdgas natural gas, and
- Dachs Stirling SE Flüssiggas LPG.

2.2.2 Request of Withdrawal
On 05 June 2018 SenerTec notified the CRU of its decision to discontinue the Dachs Stirling SE Erdgas natural gas and the Dachs Stirling SE Flüssiggas LPG. Consequently, SenerTec also requested the withdrawal of the product from the classification for emerging technologies in Ireland.

2.2.3 Withdrawal of Classification
On the basis of SenerTec’s request of withdrawal, consistent with Article 70 of the RfG, the CRU has withdrawn the classification of emerging technology for the Dachs Stirling SE (SE Erdgas natural gas and SE Flüssiggas LPG) technologies. As a consequence of this withdrawal, SenerTec’s reporting obligations set out in CER/17/119 no longer apply and SenerTec are no longer included in CRU monitoring reports.

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3 Generator Classification as an Emerging Technology – according to the RfG
3. Next Steps

All manufacturers of PGMs classified as an emerging technology are required to continue to update the CRU on the total sales of the PGM in Ireland for the preceding two months, and demonstrate that the DSO has been informed of the installation of these PGMs until the status has been withdrawn.

All manufacturers of PGMs classified as an emerging technology should submit the update to rfg@cru.ie using the template outlined in CER/17/119 Appendix 1.

The next update should be sent on 17 November 2018. The subsequent updates are due to be submitted to the CRU on the following dates every year:

- 17 January
- 17 March
- 17 May
- 17 July
- 17 September
- 17 November

Data on the cumulative maximum capacity of PGMs classified as emerging technology will be updated every two months, once the CRU has received the updated information from the manufacturers of PGMs classified as an emerging technology.
4. Appendix - Previous Monitoring Reports

<table>
<thead>
<tr>
<th>Submission number</th>
<th>Submission date</th>
<th>CRU Monitoring Report</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>17 July 2017</td>
<td>CRU/17/326</td>
</tr>
<tr>
<td>2</td>
<td>17 September 2017</td>
<td>CRU/17/327</td>
</tr>
<tr>
<td>3</td>
<td>17 November 2017</td>
<td>CRU/17/331</td>
</tr>
<tr>
<td>4</td>
<td>17 January 2018</td>
<td>CRU/18/031</td>
</tr>
<tr>
<td>5</td>
<td>17 March 2018</td>
<td>CRU/18/070</td>
</tr>
<tr>
<td>6</td>
<td>17 July 2018</td>
<td>CRU/18/121</td>
</tr>
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