**Calculation Definitions and Reference Data**

**Daily Generation Value** = *Energy* x *Price* x *ValueFactor*

**Daily Emissions** = *Energy* x *EmissionRating* x *EmissionFactor*

**Actual Heat Rate** = *TotalHeatInput* / *ActualNetGeneration*

Emissions only apply to fossil fuel generator types e.g. coal and gas. There could be a varying number of generators of a given type in any one *GenerationReport.xml* file that is produced.

**ValueFactor** and **EmissionsFactor** is static data sourced from the accompanying XML file *ReferenceData.xml*. Note: it is not possible to change static data while the console application is running.

**Generator Types** map to **factors** as follows:

|  |  |  |
| --- | --- | --- |
| **Generator Type** | **ValueFactor** | **EmissionFactor** |
| Offshore Wind | Low | N/A |
| Onshore Wind | High | N/A |
| Gas | Medium | Medium |
| Coal | Medium | High |