# APPENDIX A

Table 2 Availability of the storage data

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| --- | --- |
| **Work package name and acronym** | WP5 |
| **Task number and name** | Task 3 *Propagation of PQ disturbances through the power networks* |
| **Unique ID** | Data\_UoM\_01\_Milanovic  (e.g. Data\_TUDelft\_01\_Rueda) |
| **Authors** | Jovica V. Milanovic, Elvisa Becirovic, Sami Abdelrahman |
| **Keywords** | Probabilistic harmonic methodology |
| **Summary** | *The DPL scripts provided enables application of the probabilistic harmonic methodology analysis on IEEE 68 bus network and transmission network in Ireland as it is done in MIGRATE Task 5.3 (Deliverable 5.3 Propagation of PQ disturbances through the power networks).*  *File OPF\_results\_68bus.7z data represent the OPF results performed in MatPower for the selected level of penetration of RES (wind and PV) in modified IEEE 68 bus network.*  *Methodology reference:*  *[1] S.Abdelrahman, M. Wang, J. V. Milanovic, and E.Becirovic, "Study of harmonic propagation in transmission networks with high penetration of power electronics devices," 2017 IEEE Manchester PowerTech, Manchester, United Kingdom, 2017.*  *Files to be uploaded:* DPL scripts  * *As applied in IEEE 68 bus network (script\_harm\_prob.pfd file) containing following subscripts: Loads Reset, THD\_daily\_final, Har\_vol, reset\_harmonic\_models, Loads\_NLratio* * *As applied in transmission network model in Ireland (THD\_analysis\_loads file with subscript Har\_vol).*  1. *OPF\_results\_68bus.zip – file represents the OPF results performed in MatPower for the selected level of penetration of RES (wind and PV) in modified IEEE 68 bus network.* 2. *Harmonic ranges\_PE devices.docx - file contains ranges of current magnitudes with the ranges of the positive and negative sequence impedances for PE devices as given in Migrate Deliverable 5.2 "Simulation models for power-quality studies in power-electronics rich power networks," July 2017.* |
| **Date DMP created** | ***2018-MM-DD***  ***date to be defined*** |
| **Date last update** |  |
| **Version** | *A new version of the DMP should be created whenever important changes to the project occur due to inclusion of new data sets, changes in consortium policies or external factors*. |
| **Type** | 1. *codes – dpl scripts,* 2. *output data – OPF results* 3. *input data - .docx file* |
| **Name of researcher(s) with roles/responsibilities for data management** | *Jovica V. Milanovic is an authorized person to be contacted related to the files provided*  *Naming anyone with specific roles and responsibilities for data management is especially important for collaborative projects that involve many researchers, institutions, and/or groups.* |
| **Type of data** | 1. *PowerFactory files* 2. *.zip files (.xslx files – MS Excel)* 3. *.docx files (MS Word)* |