

**GPU Solutions for PSCAD: IT17112**

Reporting Period	March 1, 2020 - March 27, 2020
Activities	<ul style="list-style-type: none"><li>• Transferred project onto research laptop, installed Visual Studio IDE</li><li>• Contacted NVIDIA rep about low-level sparse matrix factoring functions</li><li>• Ran low-level QR factorization program on <i>Province</i> data for single time step</li><li>• Time for QR factorization plus single time step solve 35 ms</li></ul>
Issues	<ul style="list-style-type: none"><li>• None</li></ul>
Milestones Accomplished	<ul style="list-style-type: none"><li>• First timings with low-level functions optimized for sparse matrices</li></ul>
Milestones Not Accomplished	<ul style="list-style-type: none"><li>• None</li></ul>
Next Week's Milestones	<ul style="list-style-type: none"><li>• Extend solve for single time step to include all <i>Province</i> time steps</li></ul>
Forwarded Issues	<ul style="list-style-type: none"><li>• None</li></ul>