

GPU Solutions for PSCAD: IT17112

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