

# 2021 Leap Workshop



Larry Shadle

NETL, Advanced Systems Integration

## Session 3: Transition Costs and Impacts

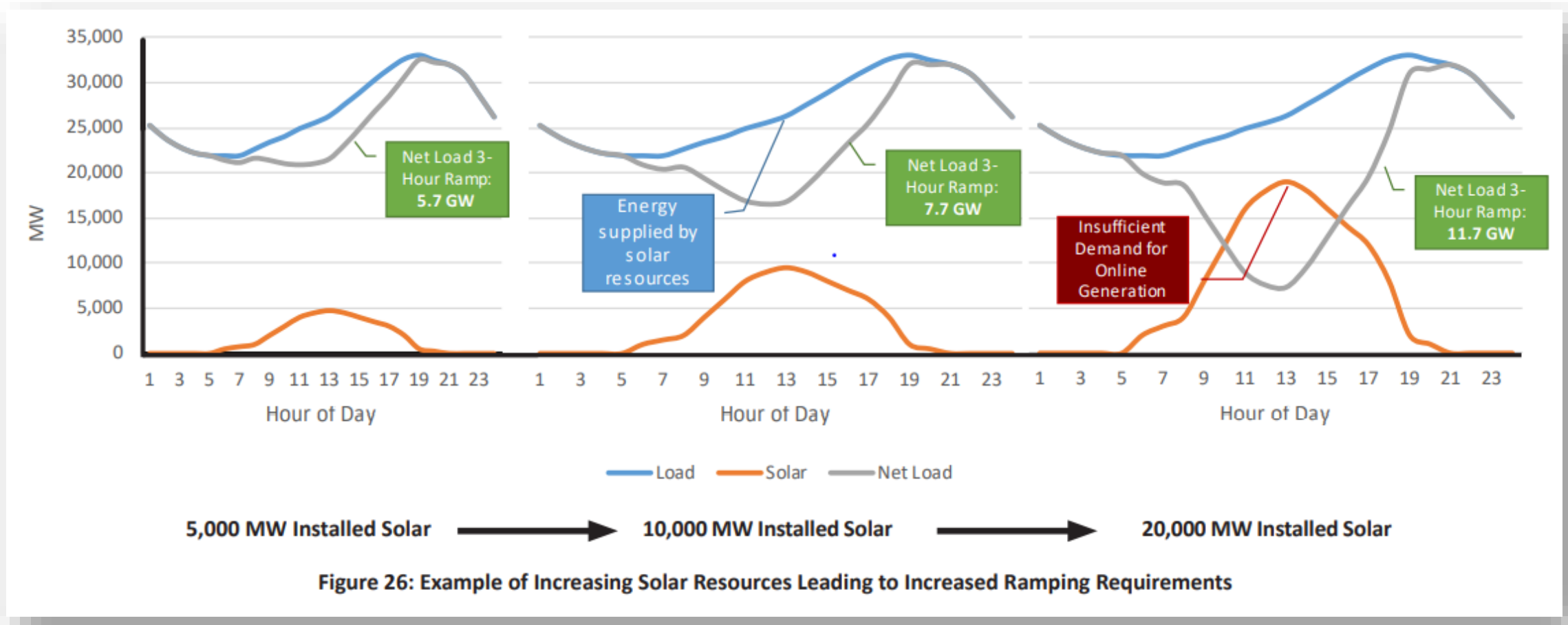


Figure 26: Example of Increasing Solar Resources Leading to Increased Ramping Requirements

North American Reliability Corporation (NERC), 2020 Long Term Reliability Assessment, December 2020, pp. 167

November 1, 2021



# Session 3 – Transition cost and impact



(14:30 pm – 16:00 pm Eastern Time)

Session Chair: **Dr. Lawrence Shadle**, Research Scientist, *National Energy Technology Laboratory, U.S. Department of Energy*

14:30 - 14:35	<b>Introduction</b> Dr. Lawrence Shadle, Research Scientist, National Energy Technology Laboratory, U.S. Department of Energy
14:35 - 14:45	<b>Overview of NETL Analyses Supporting Low-Carbon Emissions and/or Carbon-Negative Energy Generation</b> Dr. Travis Shultz, Research Scientist, Energy Process Analysis Team, National Energy Technology Laboratory, U.S. Department of Energy
14:45 - 15:00	<b>TBD</b> Michael Shelton,
15:00 - 15:15	<b>Economics of Flexibility</b> Michael Caravaggio, Senior Program Manager at the Electric Power Research Institute
15:15 - 15:25	<b>Grid Transition Costs from a Utility Perspective</b> Steve Steffel, Executive Advisor at Quanta Technology
15:25 – 15:35	<b>TBD</b> Professor Simone D'Alessandro,
15:35 - 16:00	<b>Open Discussion</b>
<b>Closing</b>	