



Acronyms:

2nd Annual Advanced Water-Splitting Technology Pathways
Benchmarking & Protocols Workshop October 29 - 30, 2019

AEM	Anion Exchange Membrane
AFM	Atomic Force Microscopy
ALS	Advanced Light Source
AMR	Annual Merit Review
ANL	Argonne National Laboratory
ASAP	As soon as possible
ASR	Area Specific Resistance
AST	Accelerated Stress Test
ASTM	International standards organization (Originally American Society for Testing and Materials)
ASU	Arizona State University
CAD	Computer Aided Design
CE	Counter Electrode
CSIRO	Commonwealth Scientific and Industrial Research Organisation
CSM	Colorado School of Mines
CSP	Concentrated Solar Power
DFT	Density Functional Theory
DOE	Department of Energy
EC	Electrochemical
ECS	Electrochemical Society
EES	Energy and Environmental Science
EIS	Electrical Impedance Spectroscopy
FC-PAD	Fuel Cell Performance and Durability (DOE Consortium)
FIB	Focused Ion Beam
G/NG	Go/No Go
GC	Glassy Carbon (electrode material context)
GC	Gas Chromatography (analysis context)
GDL	Gas Diffusion Layer
HER	Hydrogen Evolution Reaction
HHV	Higher Heating Value
H-SOEC	Proton Conductor-Based Solid Oxide Electrolyzer Cell
HT	High Throughput
HTE	High Temperature Electrolysis
HZB	Helmholtz-Zentrum Berlin
IEC	Ion Exchange Capacity
JRC	Joint Research Council



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LBNL	Lawrence Berkeley National Laboratory
LHV	Lower Heating Value
LLC	Limited Liability Corporation
LLNL	Lawrence Livermore National Laboratory
LTE	Low Temperature Electrolysis
MEA	Membrane Electrode Assembly
MPL	Microporous Layer
MYRD&D	Multi-Year Research, Development, & Deployment
NREL	National Renewable Energy Laboratory
OCV	Open Circuit Voltage
OER	Oxygen Evolution Reaction
O-SOEC	Oxide Conductor-Based Solid Oxide Electrolyzer Cell
PEC	Photoelectrochemical (water splitting)
PEM	Proton Exchange Membrane
PFSA	Polyfluorosulfonic Acid
PGM	Platinum Group Metal
PI	Principal Investigator
PNNL	Pacific Northwest National Laboratory
PTL	Porous Transport Layer
PV	Photovoltaic
QA	Quality Assurance
QC	Quality Control
R&D	Research and Development
RDE	Rotating Disk Electrode
Rp	Polarization resistance
RPI	Rensselaer Polytechnic Institute
RRT	Round Robin Testing
Rs	Series resistance
RT	Room Temperature
SETO	Solar Energy Technology Office
SGL	(Carbon component supplier)
SLAC	Stanford Linear Accelerator
SNL	Sandia National Laboratory
SOEC	Solid Oxide Electrolysis Cell
SOFC	Solid Oxide Fuel Cell
SOP	Standard Operating Procedure
SRNL	Savannah River National Laboratory
STCH	Solar Thermochemical Hydrogen (water splitting)
STH	solar to hydrogen
TBD	To be determined



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TEA	Technoeconomic Analysis
TGA	Thermogravimetric Analysis
TPB	Triple Phase Boundary
TRL	Technology Readiness Level
TUB	Technical University of Berlin
TUM	Technical University of Munich
UCI	University of California, Irvine
UCSD	University of California, San Diego
UTRC	United Technologies Research Center
WVU	West Virginia University

