





Dear ICC Governmental Member Voting Representatives,

As grid reliability experts, companies, and key stakeholders in the clean energy industry, we write to communicate our deep concern regarding a proposed change to codes that could negatively impact the deployment of job-creating clean energy projects nationwide. Non-utility-owned large-scale photovoltaic (PV) facilities and most wind turbine generator systems (WTGS) are permitted and inspected through local County building departments, using the International Building Code (IBC) as the locally adopted construction code applicable to these non-building structures. A code change proposal under consideration for the future 2024 IBC would significantly affect the deployment of PV and wind facilities by unnecessarily driving up construction costs without achieving its intended benefit of grid resiliency and reliability. For the reasons stated below, the signed organizations request your vote for disapproval of Proposal S76-22 and as further detailed below.

The Federal Emergency Management Agency (FEMA)'s Applied Technology Council Seismic Code Support Committee (FEMA-ATC SCSC) submitted Proposal S76-22, which increases the structural Risk Category (RC) of most ground mounted large-scale solar and wind projects to the same RC as Essential Services Facilities (including hospitals, fire stations, and police stations). FEMA-ATC SCSC believes that increasing structural loads on all "public utility facilities providing power generation" will achieve increased reliability of the grid, resulting in fewer power outages. However, Proposal S76-22 is written by structural engineers, not grid reliability experts with experience in the core factors of grid resiliency and the interaction of the power generating facility and transmission and distribution systems; both of which are unrelated to structural design loads.

Approximately 95% of large-scale ground-mounted PV facilities are designed, permitted, and inspected as RC I (one). FEMA Proposal S76-22 would increase the RC to IV (four), thereby increasing required wind loads by roughly 33 percent and seismic and snow loads by roughly 50 percent. For hurricane-prone regions or regions with high snow loads, this means projects could be deemed economically unviable; mainly due to a lack of PV modules tested and rated for those higher loads and also for increased equipment needed.

Additionally, nearly all wind turbines in the U.S. are designed and permitted to RC II (two), based on to ASCE/AWEA Recommended Practice RP2011. An increase to RC IV would increase extreme wind design loads for turbines by a minimum of 20% and increase seismic design loads by 50%. These changes will result in limits on the ability to transport the required larger tower sections given road, rail and bridge height and weight constraints. It could also create artificial constraints on the height of wind turbines, thus decreasing the electricity they generate, which undermines project economics and will result in facilities not being built. The wind industry expects that the proposal would only increase the amount of construction material needed for wind turbines and therefore overall cost by 30% or more, without the actual increase in grid power resilience it promises.

The net effect of Proposal S76-22 would be the opposite of the stated intent. Grid reliability and grid recoverability are not based on the survivability of structures, but on grid planning and redundancy. Since grid reliability is already under the auspices of the North American Electric Reliability Corporation (NERC), its regulatory forum is where such integrated considerations should also be debated. Their expert opinions and research should be consulted along with industry stakeholders and AHJs with broad and deep experience in these topics.







As companies and stakeholders that employ the clean energy workforce and deploy renewable technologies including solar, wind, and storage to enable a clean energy economy, the undersigned strongly encourage ICC Governmental Member Voting Representatives to vote as follows:

- DISAPPROVAL ON FEMA-ATC SCSC PROPOSAL S76-22
- APPROVAL ON SEIA PROPOSAL S79-22 AS MODIFIED BY PUBLIC COMMENT 1
- APPROVAL ON SEIA PROPOSAL S81-22 AS MODIFIED BY PUBLIC COMMENTS 3 AND 4

We thank you for your support.

Sincerely,

Abcam, Inc

Acciona Energy USA Global

ACR Solar & Roofing

Adion Solar

Advanced Green Technology

Aegis Renewable Energy

Aerocompact

Aeroplate Corporation

AES Clean Power

Alchemy Renewable Energy

Alder Energy Systems

All Bright Solar

Alternative Energy Southeast

Altis Energy Services LLC

Alt E Wind & Solar, Ltd.

Ambor Structures

American Clean Power Association

American Energy Care

Ames Construction

ANS Geo, Inc.

Apex Clean Energy

Arch Electric, Inc.

Arctech Solar

Arevon

Armadillo Power

Array Technologies,Inc

Aspen Power Partners

Atlas Renewable Energy

Aurora Solar

Avantus

Bayside Energy Solutions

BayWa r.e. Solar Systems LLC

Belmont Solar

Bergey Windpower Co. LLC

Black & Veatch

Blattner Energy, Inc.

Bluestem Energy Solutions

BlueWave Solar

Boiler Burner Control Inc.

Borrego Energy

BrightNight, LLC

Brown & Brown Inc.

Buffalo Renewables Inc

Buglet Solar Electric

California Solar and Storage

Association (CalSSA)

California Solar, Inc.

Canadian Solar USA, Inc.

Candela Renewables, LLC

Carter Wind

CDL Electric







CEP Renewables LLC

Chambers for Innovation and Clean

Energy

CHINT Power Systems

Clean Energy for America

Clearway Energy Group

Cloudbreak Energy Partners

Conductor Power Renewables

ConnectGen LLC

Construction Innovations

Convergent Systems, LLC

Copia Power

Correlate

CPP Wind Engineering

Craftsmen House LLC

Craig Electric

CS Energy

CSI Electrical Contractors, Inc.

Custom Solar and Leisure, LLC

Cygnus Solar Power

Cypress Creek Renewables

D.H. Blattner and Sons

Daly Energy

DC Solar Services

Distributed Solar Development

Distributed Sun LLC

DNV Energy USA, Inc.

Doral Renewables

Ducted Wind Turbines, Inc.

DynaSolar EPCM

Ecogy Energy

Ecotricity Energy LLC

EDF Renewables

EDP Renewables North America

Elders Climate Action Southern

California

Element Solar

Encore Renewable Energy

Enel Green Power North America.

Inc.

Energy Concepts

Energy Intelligence Partners

Energy Project Solutions

Energy Toolbase LLC

ENGIE North America

Eocycle America Corp.

ESA Solar

Esdec BV

Essex Capital Partners

EVS, Inc.

EWT, Americas

Excite Energy

First Solar

FCX Solar

ForeFront Power Development, LLC

Free Up Solar LLC

FTC Solar, Inc.

Fundamental Renewables

GameChange Solar

GE Vernova

General Electric Company

General Stamping & Metalworks

Geode Energy, LLC

Geoscape Solar

Glenvale LLC

Good Steward Consulting

Grand Solar, Inc.

Greentech Renewables

Green Lantern Development, LLC

GRID Alternatives

Hanwha O CELLS America Inc.

Harmony Energy Solutions

Hecate Energy

Horizon Energy Systems

Horus Renewables Corp.

HS International

HST Technologies

ibV Energy Partners

Idemitsu Renewables

October 17, 2022







Impact Power Solutions

Incident Management Solutions

Industrial Sun

Inovateus Solar LLC

Intergrid, LLC Intersect Power Invenergy LLC

JE Dunn Construction Jh Solar Consulting

Juwi Inc.

K2 Systems LLC

Kendall Sustainable Infrastructure Kensington Vanguard National

Land Services Keramida Inc.

Keystone Tower Systems

Kiewit

Kimley-Horn Kleinfelder Inc.

Large-Scale Solar Association Leeward Renewable Energy

Lightsource bp

Live Oak Banking Company

Lockton Companies, LLC - Pacific

Series Lumio

Lumos Solar

M. A. Mortenson Company Maffei Structural Engineering McCarthy Building Companies, Inc.

McKinstry Meteoswift MHG Solar

Mill Creek Renewables Mission Energy Inc. Modern Energy LLC

Mortenson

Moss & Associates LLC

MotorDoc LLC

Mynt Systems

Natural Power Company Nautilus Solar Energy, LLC

NEI Electric Power Engineering, Inc.

Newport Solar NewSun Energy Nexamp, Inc. NextEra Energy Nextracker, Inc. NoBull Energy

Nokomis Energy LLC

NOV

NYS Sustainable Corp. Oasis Montana, Inc

OBXtroniX OMCO

OneEnergy Renewables

Onyx

Opsun Systems Inc.

Orange Mountain Energy Oregon Solarworks LLC

Oriden Orsted Paces

PanelClaw, Inc Pattern Energy Pecos Wind Power

Photonworks Engineering LLP

Photon Vault

Pine Gate Renewables, LLC

Pivot Energy

Planet Plan Sets LLC Pomeroy Design

POWER Engineers, Inc.

Powur and Energy Network

Residential

Precision Systems Engineering

Prime Consultants Primergy Solar

October 17, 2022







Primoris

Pure Power Contractors Inc.

PV AMPS

PV Evolution Labs

PV Hardware Solutions S.L.U.

QUANTA

Quanta Services Radian Generation

Rayne

REC Americas LLC

ReneSola Power Holdings, LLC Renewable Energy Services LLC

Renewable Energy Systems Renewable Energy Vermont

RENEW Wisconsin

RES (Renewable Energy Systems)

Revamp Engineering, Inc.

Robert Perez LLC Robinson, Inc. Roof Tech, Inc. Rosenblum

Rosendin Electric, Inc.

rPlus Energies

RRC Power & Energy, LLC

RWDI

RWE Renewables Americas S-5! Metal Roof Innovations. Ltd

Safari Energy SALT Energy

San Francisco Department of

Environment

Sargent & Lundy LLC

Savion, LLC SB Energy

Schultek Construction Scout Clean Energy Sea Bright Solar

Shenandoah Energy Services LLC

Signal Energy

Sigora Solar

Silicon Ranch Corporation

SimpleRay, LLC

Site Resource Solutions

Sofos Harbert Renewable Energy

Sol Focus

Sol Systems LLC

Solamerica Energy, LLC

Solar Energy Industries Association

Solar Energy International

Solar FlexRack Solar Landscape

Solar PowerWorks, Inc.

Solar Source SolarFlow Solaround Ltd. SOLV Energy Somos Solar

Sonnedix Kingbird, Inc Southern Current

Standard Solar

Star Power Systems, LLC

Starling RFS

Stellar Renewable Power

Stem, Inc.

Steven Quade Consulting LLC

StraightUp Solar Strata Clean Energy Summit Ridge Energy Sundt Renewables SunEnergy1 LLC

Sunfolding

Sungenix Energy Solutions SunModo Corporation SunPower Corporation

Sunrise Energy Ventures, LLC

Sunrun

Sunwire Energy

Sustainable Solutions

October 17, 2022







Sustineo Corporation

Suter Construction

T A Somers Electrical

Target

TC Energy

Technical Creative

Tenaska

Terabase Energy

Terra-Gen

Terracon Consultants, Inc.

TerraPro Solutions

Terrasmart

Tesla

The Climate Economy Education

Inc.

Titan Solar

TMEIC

TotalEnergies Renewables USA, LLC

TPI Composites, Inc

TrackerSled

TRC

Trinity River Community Solar

Systems (TRCSS)

ULCG

Ulteig Engineers, Inc.

Unico Solar

Unirac, Inc.

Ventoco Services Group, Inc.

Vestas American Wind Technology,

Inc.

Walden's Greenergy Solar, LLC

Washington Solar Energy Industries

Association (WASEIA)

WECS Renewables

Western Land Services, Inc.

Westwood Professional Services,

Inc.

Wind Advisors Team

Wind Harvest International

WindSolarUS, Inc.

Windurance, LLC

Wood PLC

Xcel Energy

XFlow Energy

XL Fleet