

Chapter 15

Acronyms and Abbreviations

\$/tCO ₂ e	dollars per metric ton of carbon dioxide equivalent
15 by 15	NYS energy agencies' goal to implement energy efficiency programs reducing electricity demand by 15% by the 2015.
30 by 15	NYS goal to increase the NYS market share of renewable energy to 30% by the 2015.
40 by 30	NYS benchmark to reduce GHG emissions by 40% below 1990 levels by 2030
45 by 15	NYS energy policy to meet 45 percent of New York's electric energy needs from energy efficiency and renewable energy by the year 2015
80 by 50	NYS goal to reduce GHG emissions by 80% of 1990 levels by 2050
AARA	American Recover and Reinvestment Act
ACE NY	Alliance for Clean Energy New York
ADP	Adaptation
AEO	<i>Annual Energy Outlook</i> (U.S. DOE-EIA)
AFW	Agriculture, Forestry, and Waste Management
ARPA-E	Advanced Research Projects Administration—Energy
ASHRAE	American Society of Heating, Refrigerating and Air-Conditioning Engineers
B100	fuel blend of 100% biodiesel
B20	fuel blend of 20% biodiesel and 80% gasoline
BAU	business as usual
BBtu	billion British thermal units
BCF	billion cubic feet
BLS	US Dept. of Labor Bureau of Labor Statistics
BMP	Best management practice
Btu	British thermal unit
CAES	Compressed-air energy storage
CAFE	corporate average fuel economy standards
CAP	Climate Action Plan
CARB	California Air Resources Board
CARB	California Air Resources Board
CCS	carbon capture and storage
CEEBS	Center for Energy Efficiency and Building Science (CEEBS)
CFL	compact fluorescent light
CH ₄	methane
CHP	combined heat and power

ClimAID	Integrated Assessment for Effective Climate Change Adaptation Strategies in New York State
CO ₂	carbon dioxide
CO ₂ e	carbon dioxide equivalent
CRP	Conservation Reserve Program (USDA)
DEC	(New York State) Department of Environmental Conservation
DOE	[United States] Department of Energy
DOT	[U.S.] Department of Transportation
E10	fuel blend of 10% ethanol and 90% gasoline
E85	fuel blend of 85% ethanol and 15% gasoline
EBM	Ecosystem-based Management
EC	Elemental Carbon
EEPS	Energy Efficiency Portfolio Standard
EFC	[New York State] Environmental Facilities Corporation
EFRCs	Energy Frontier Research Centers
EIA	Energy Information Administration (US DOE)
EISA	Energy Independence and Security Act of 2007
EJ	environmental justice
EMB	ecosystem-based management
EMEP	[New York] Environmental Monitoring, Evaluation, and Protection Program
EO	Executive Order
EPA	[US] Environmental Protection Agency
EPRI	Electric Power Research Institute
EV	electric vehicle
FCV	fuel cell vehicle
FEMA	Federal Emergency Management Authority
FERC	Federal Energy Regulatory Commission
g	Gram
GCM	global climate model
GDP	gross domestic product
GGE	gallons of gasoline equivalent
GHG	greenhouse gas
GREET	Greenhouse [gases] Regulated Emissions and Energy [use in]Transportation [model]
GSP	gross state product
GWh	gigawatt-hour (one million kilowatt-hours)
GWP	Global Warming Potential
GWP	global warming potential

HadCM3	(UK Met Office) Hadley Centre Climate Model Version 3
HDPE	high-density polyethylene
HDV	heavy-duty vehicle
HERS	Home Energy Rating System
HFC	Hydrofluorocarbon
HVAC	heating, ventilating and air conditioning
I&F	inventory and forecast
IC	Internal Combustion
ICAP	International Carbon Action Partnership
ICC	International Code Council
IECC	International Energy Conservation Code
IGCC	integrated gasification combined cycle
IHETF	Industry-Higher Education Partnerships
iLUC	Indirect land use change
IPCC	Intergovernmental Panel on Climate Change
IPM	Integrated Pest Management
IPM	Integrated Planning Model®
ISC	Invasive Species Council
ISO	Independent System Operators
ISTF	Invasive Species Task Force
kg	kilogram
kgN	kilogram Nitrogen
kV	Kilovolt
kW	Kilowatt
kWh	kilowatt-hour
LandGEM	Landfill Gas Emissions Model
lb	pound
lb	Pound
LCFS	low-carbon fuel standard
LCPS	low-carbon portfolio standard
LDPE	low-density polyethylene
LDV	light-duty vehicle
LED	light-emitting diode
LEED	Leadership in Energy and Environmental Design (Green Building Rating System™)
LF	landfill
LFG	landfill gas
LFGcost	landfill gas cost model

LiDAR	light detection and ranging technology
LIPA	Long Island Power Authority
LSE	load-serving entities
metric ton	1,000 kilograms or 22,051 pounds
mi	mile
MM	million
MMBtu	million British thermal units
MMt	million metric tons
MMtC	million metric tons of Carbon
MMtCO ₂	million metric tons of carbon dioxide
MMtCO ₂ e	million metric tons of carbon dioxide equivalent
MSW	municipal solid waste
MTA	Metropolitan Transportation Authority
MW	megawatt (one thousand kilowatts)
MWh	megawatt-hour (one thousand kilowatt-hours)
N	nitrogen
N/A	not applicable
N ₂ O	nitrous oxide
NAS	National Academy of Sciences
NASA	U.S. National Aeronautics and Space Administration
NGCC	natural gas combined cycle
NGCT	natural gas combustion turbine
NIETCs	national interest electric transmission corridors
NIST	National Institute of Standards and Technology
NOAA	National Oceanic and Atmospheric Administration
NPCC	New York City Panel on Climate Change
NPV	net present value
NRC	[US] Nuclear Regulatory Commission
NREL	National Renewable Energy Laboratory (US DOE)
NY-BEST	New York Battery and Energy Storage Technology Consortium
NYC	New York City
NYCDOT	New York City Department of Transportation
NYISO	New York Independent [Transmission] System Operator
NYOGLECC	New York Oceans and Great Lakes Ecosystem Conservation Council
NYPA	New York Power Authority
NYS	New York State
NYSDEC	New York State Department of Environmental Conservation

NYSDPS	New York State Department of Public Service
NYSERDA	New York State Energy Research and Development Authority
NYSTAR	New York State Foundation for Science, Technology and Innovation
NYTO	New York Transmission Owners
O&M	operation and maintenance
OC	Organic Carbon
ODS	ozone-depleting substance
PACE	Property Assessed Clean Energy
PANYNJ	Port Authority of New York and New Jersey
PAYD	Pay-As-You-Drive
PCAST	President’s Council of Advisors on Science and Technology
PET	polyethylene terephthalate
PFC	perfluorocarbon
PHEV	plug-in hybrid electric vehicle
PMEFC	proton-membrane exchange fuel cell
PRISM	Partnerships for Regional Invasive Species Management
PSC	[New York] Public Service Commission
PSD	Power Supply and Delivery
PV	photovoltaic
R&D	research and development
RCI	Residential, Commercial/Institutional, and Industrial
RD&D	research, development, and demonstration
RDD&D	research, development, demonstration, and deployment
RGGI	Northeast Regional Greenhouse Gas Initiative
RIT	Rochester Institute of Technology
RPS	Renewable Portfolio Standard
RTO	regional transmission organization
RTO	regional transmission organization
SBC	System Benefit Charge
SECCC	State Energy Conservation Construction Code
SEQRA	State Environmental Quality Review Act
SF ₆	sulfur hexafluoride
SLRTF	Sea Level Rise Task Force
SMES	superconducting magnetic energy storage
SMIA	Significant Maritime and Industrial Areas
SO ₂	sulfur dioxide
SO ₄	sulfate

STEM	science, technology, engineering and math
SUNY	State University of New York
SWAP	State Wildlife Action Plan
t	Metric ton
T&D	Transmission and Distribution
tC	metric tons of carbon
TCI	Transportation and Climate Initiative
tCO ₂ e	metric tons of carbon dioxide equivalent
tCO ₂ e/MWh	metric tons of carbon dioxide equivalent per megawatt-hour
TDM	Travel Demand Management
TLU	Transportation and Land Use
TOD	Transit-Oriented Development
TRB	Transportation Research Board
TSD	transit-supportive development
TSM	transportation system management
TWG	Technical Work Group
UNFCCC	United Nations Framework Convention on Climate Change
USDA	United States Department of Agriculture
USFS	United States Forest Service (USDA)
USGCRP	US Global Change Research Program
V2G	vehicle-to-grid
VMT	vehicle miles traveled
WRP	Waterfront Revitalization Programs
WW	wastewater
yr	year
ZNE	zero-net energy