

Alex Fisher - DOEE
Advanced Energy Group
Grid Modernization
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DEPARTMENT OF ENERGY AND ENVIRONMENT
ENERGY ADMINISTRATION



**GOVERNMENT OF THE
DISTRICT OF COLUMBIA**
MURIEL BOWSER, MAYOR

ENERGY AND CLIMATE GOALS AND

TARGETS BY 2032:



ADAPT TO CLIMATE CHANGE

CLIMATE READY BUILDINGS

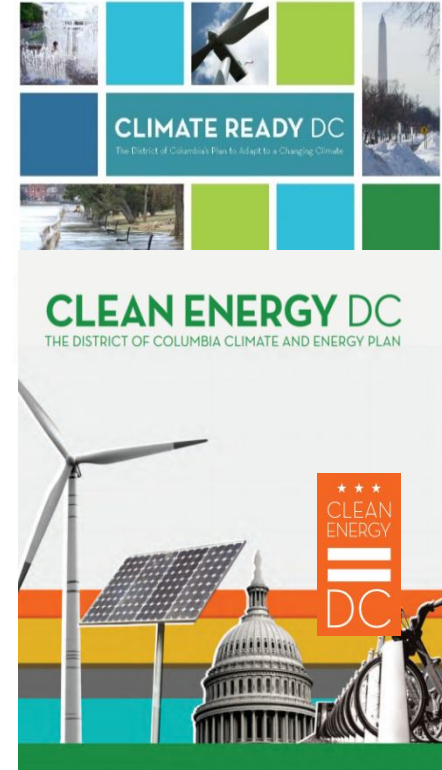
CUT ENERGY USE 50%

50% RENEWABLE ENERGY

100% RENEWABLE ELECTRICITY

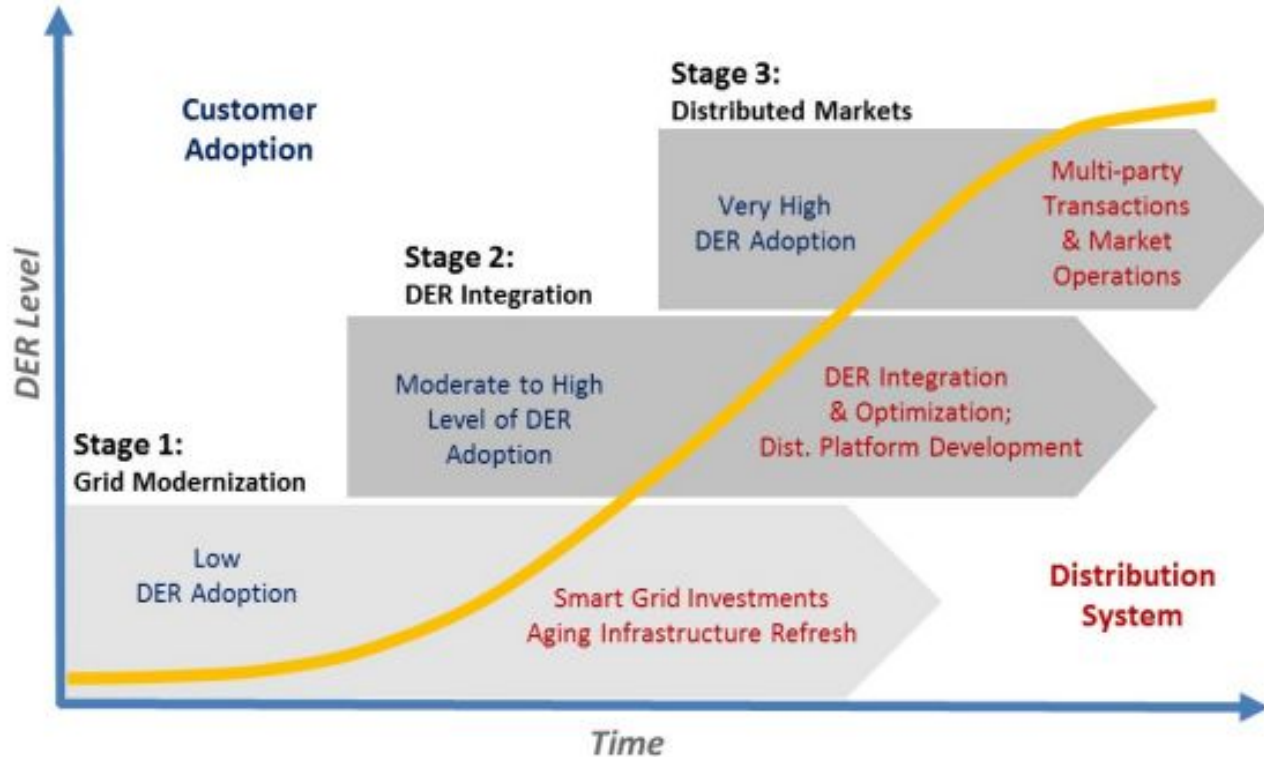
NET ZERO BUILDINGS

CUT GHG EMISSIONS 50%



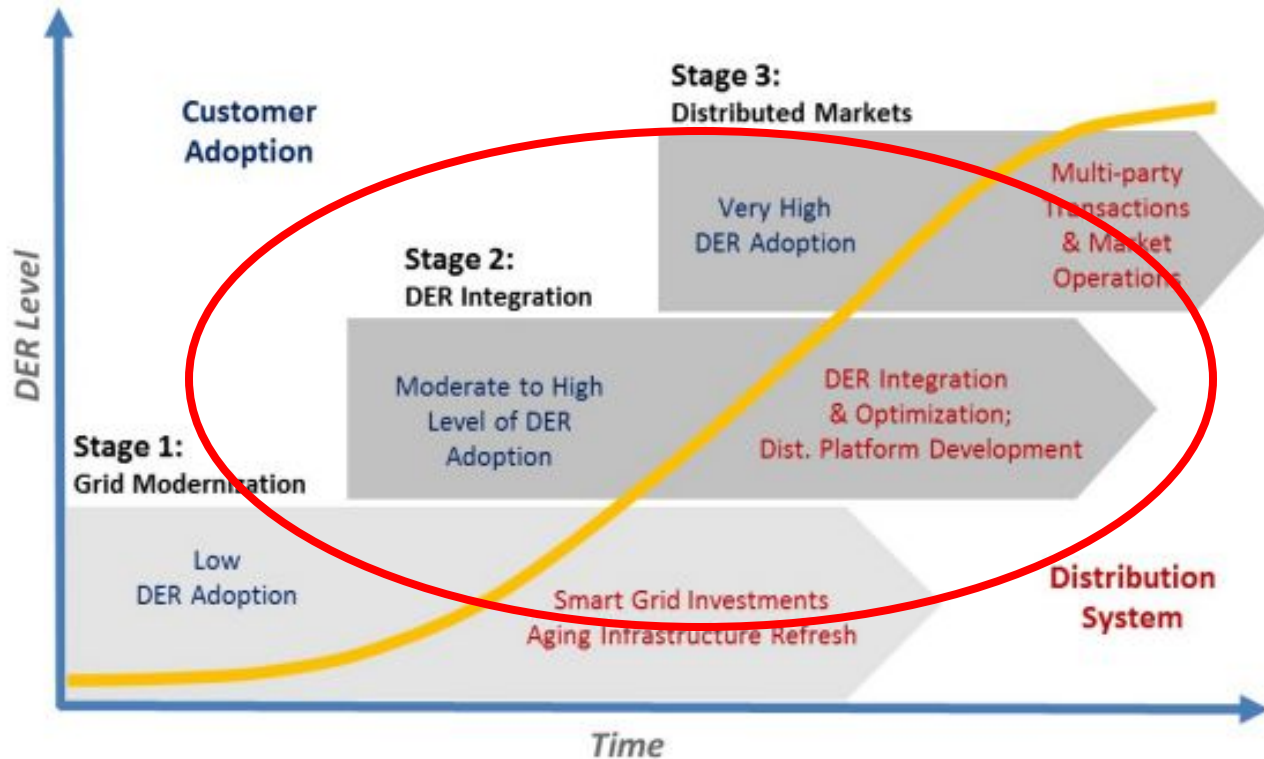
CLIMATE GOAL BY 2050: CARBON NEUTRALITY

STAGES OF GRID MODERNIZATION



Source: De Martini & Kristov, “Distribution Systems in a High Distributed Energy Resources Future”

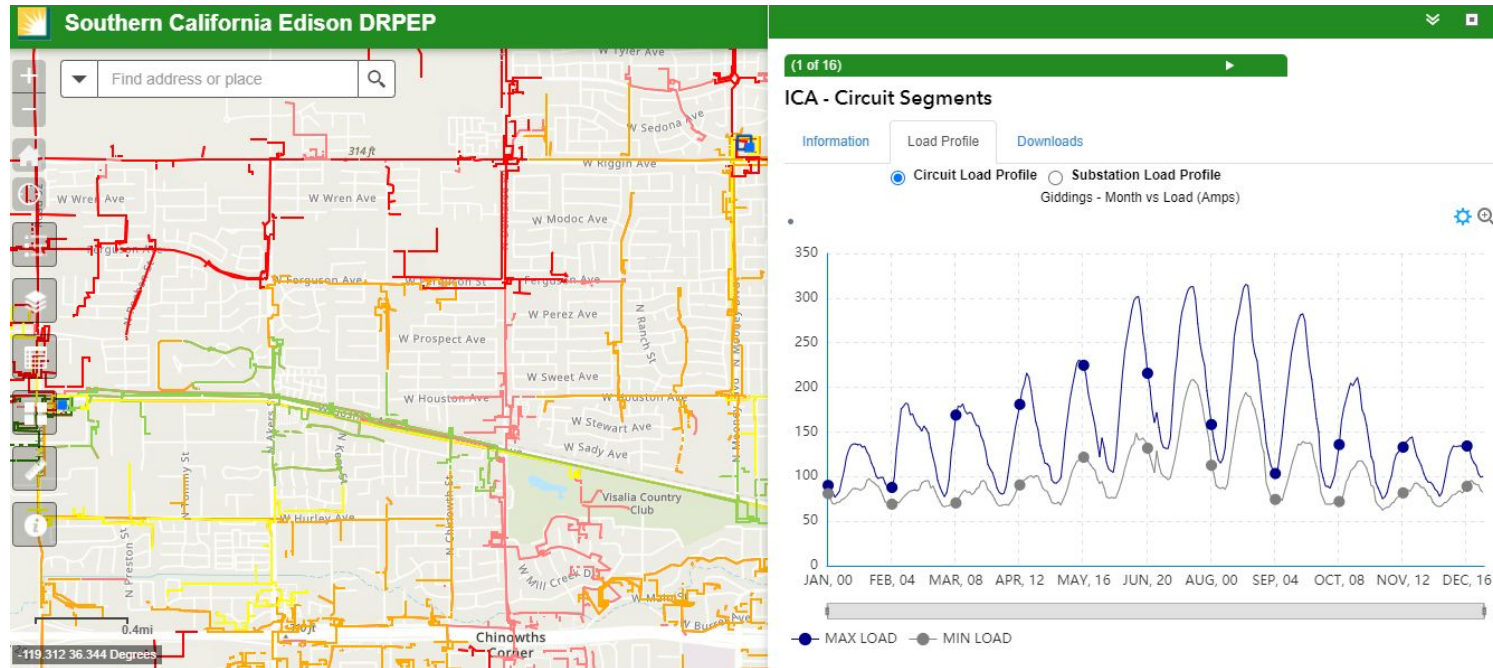
STAGES OF GRID



Source: De Martini & Kristov, “Distribution Systems in a High Distributed Energy Resources Future”

BARRIER TO GRID MODERNIZATION: DATA

- Lack of access to aggregated and anonymized distribution-level feeder data
- Real-time distribution system performance data



Source: Southern California Edison