



Renewable Energy System Analysis Features in Version 28

A sneak preview of coming attractions...

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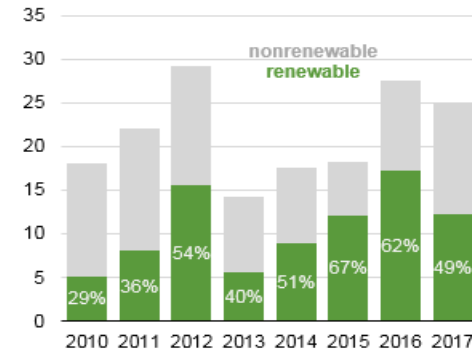
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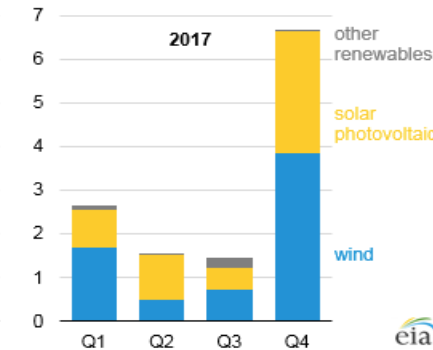
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Nearly half of utility-scale capacity installed in 2017 came from renewables

Utility-scale capacity additions, 2010-2017 gigawatts



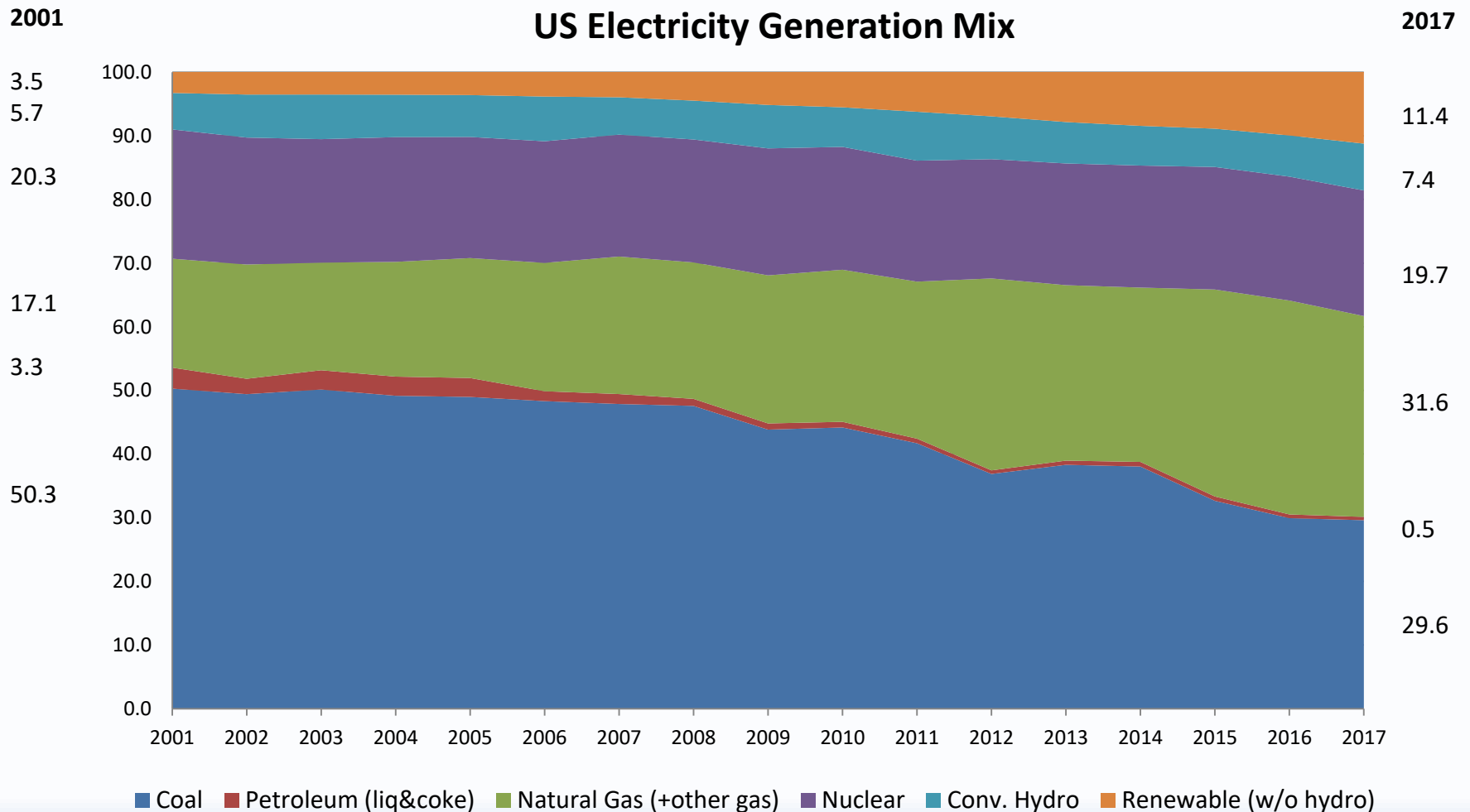
Utility-scale renewable capacity additions gigawatts



Source: U.S. Energy Information Administration, Form EIA-860M, Preliminary Monthly Electric Generator Inventory

Change in US Renewable electricity production 2016 -> 2017 +1.3%
 2017 Total renewable electricity production (incl. biomass, excl. conv hydro) 11.4%

US Electricity Generation Mix



Version 28 – Feature Preview

- **TFRenew (TFR)** – a new program for analyzing the performance, cost, and economic value of systems combining:
 - Renewable power: wind farms, solar PV, user-defined
 - Storage systems: batteries, flywheels, pumped hydro, user-defined, ...
 - Thermal plants: reciprocating engines, open cycle GTs, combined cycles, coal plants, etc.
- Storage systems in **THERMOFLEX / PEACE**
 - Components for batteries, flywheels, pumped hydro, user-defined, ...
- Battery storage in **GT PRO / GT MASTER / PEACE**
 - Gas turbine OEMs (Siemens, Solar, ...) are offering ‘instant power’ solutions using battery storage
 - New feature to design battery storage including cost and performance analysis using built-in simplified annual model, and TIME

TFR - Demo

