Electricity sector issues in México: Challenges and opportunities

Global Power Plenary

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CRE

Power sector industrial organization before 1992

Suppliers

CFE (State owned utility)

System operation

Generation

Transmission

Distribution

Zone 1

⋮

Zone n

Private sector

Consumers

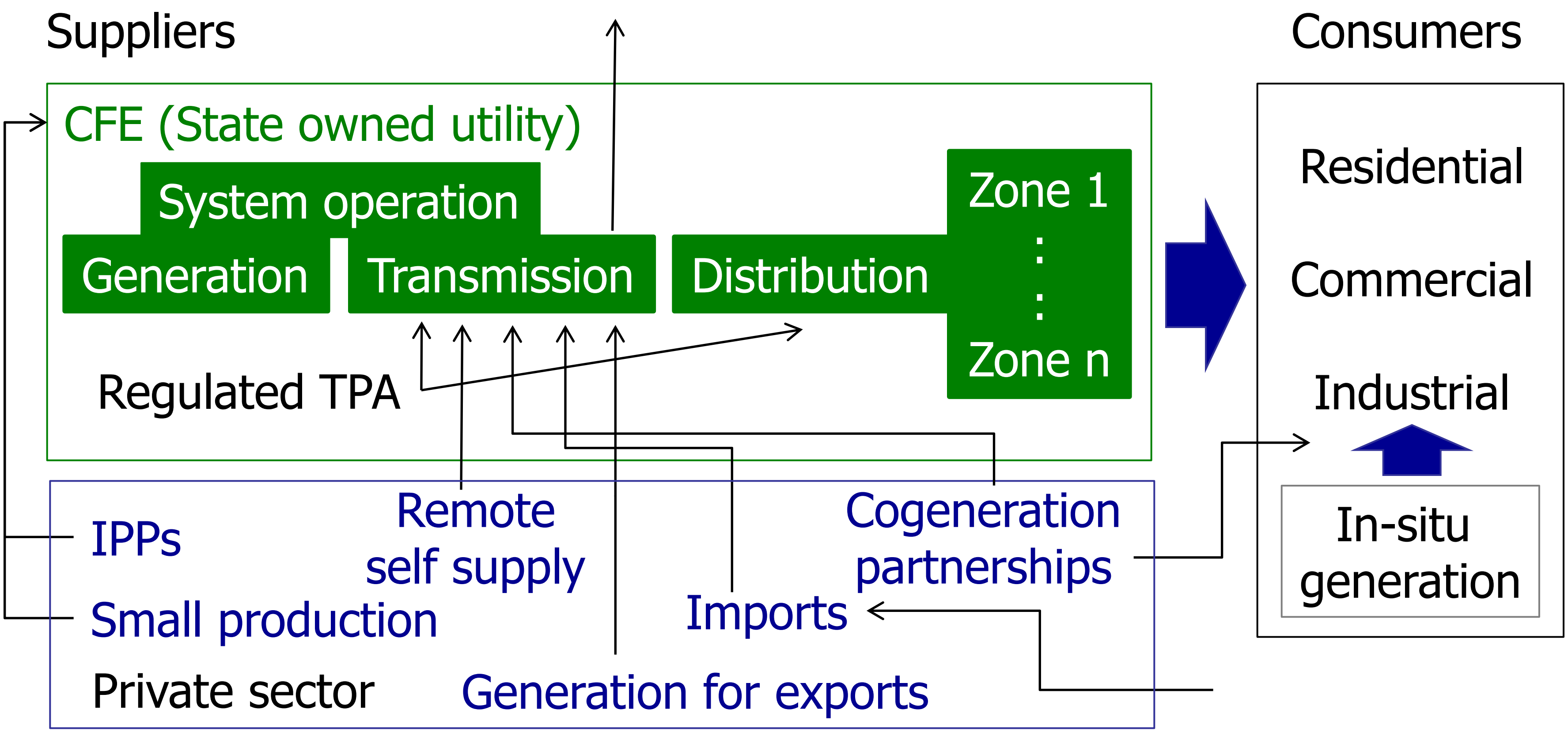
Residential

Commercial

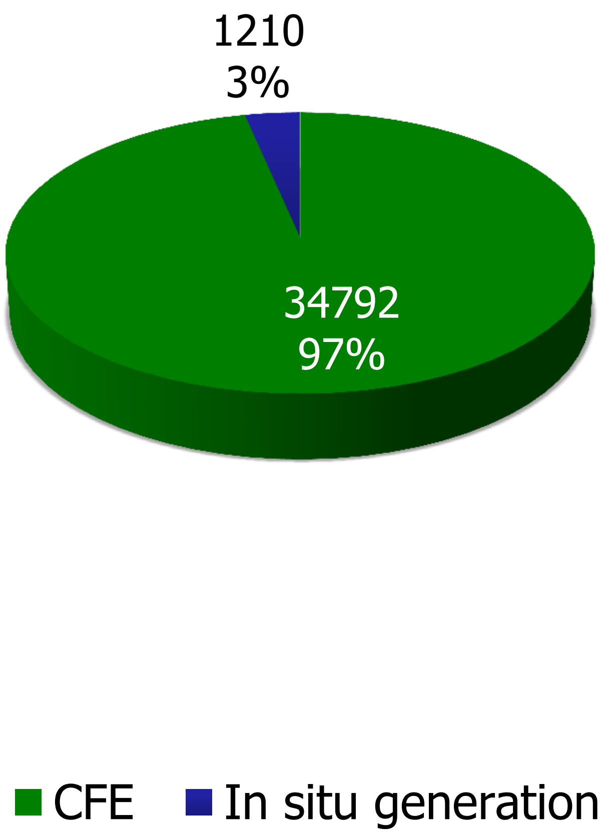
Industrial

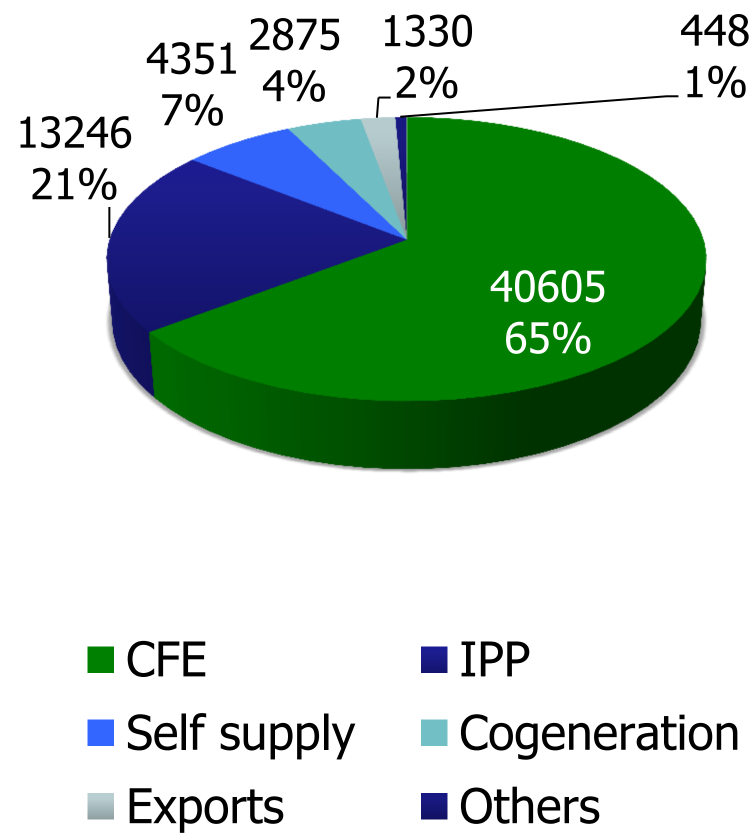
In-situ generation

Power sector industrial organization after 1992

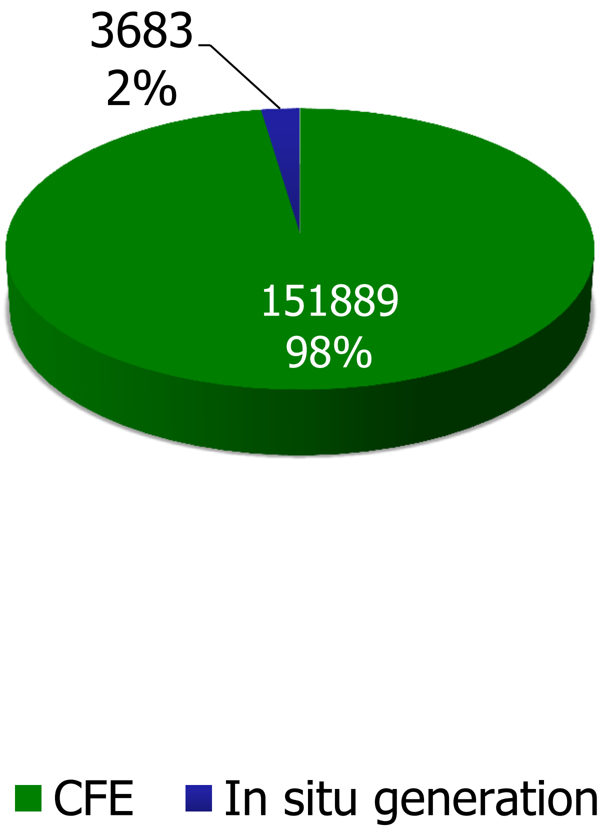


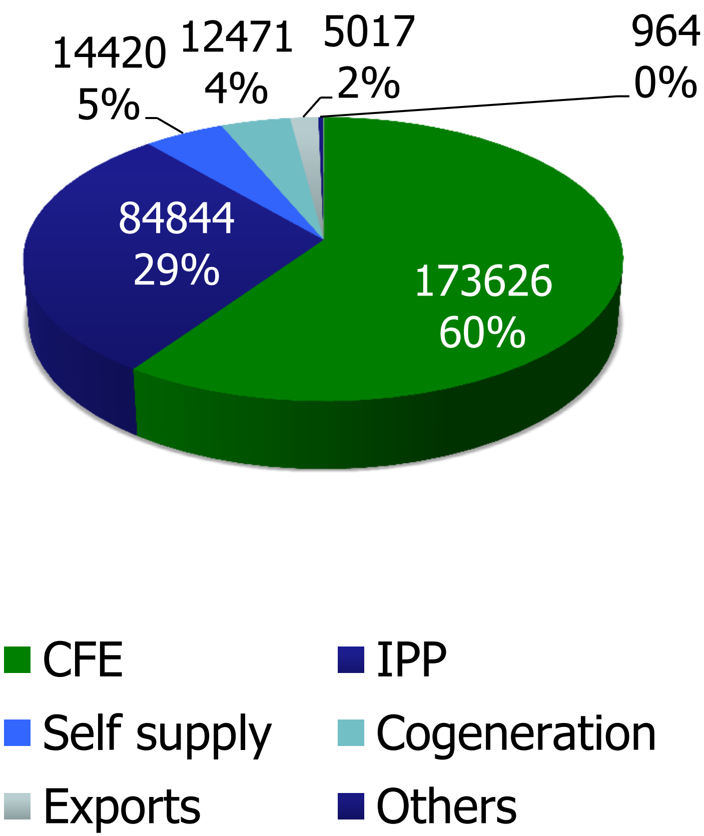
From 1996 to 2011: share in capacity [MW]





From 1996 to 2011: share in energy [MWh]





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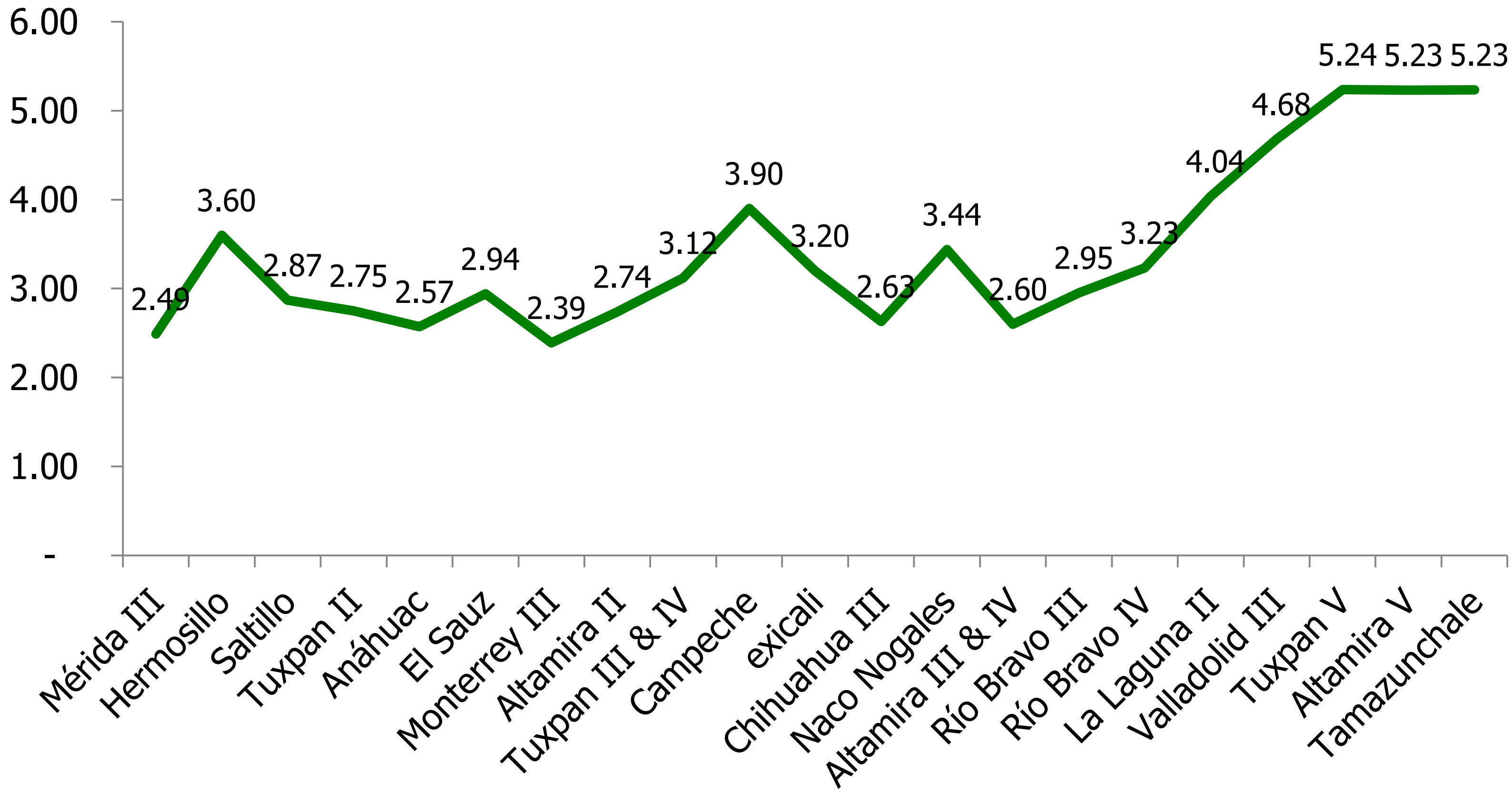
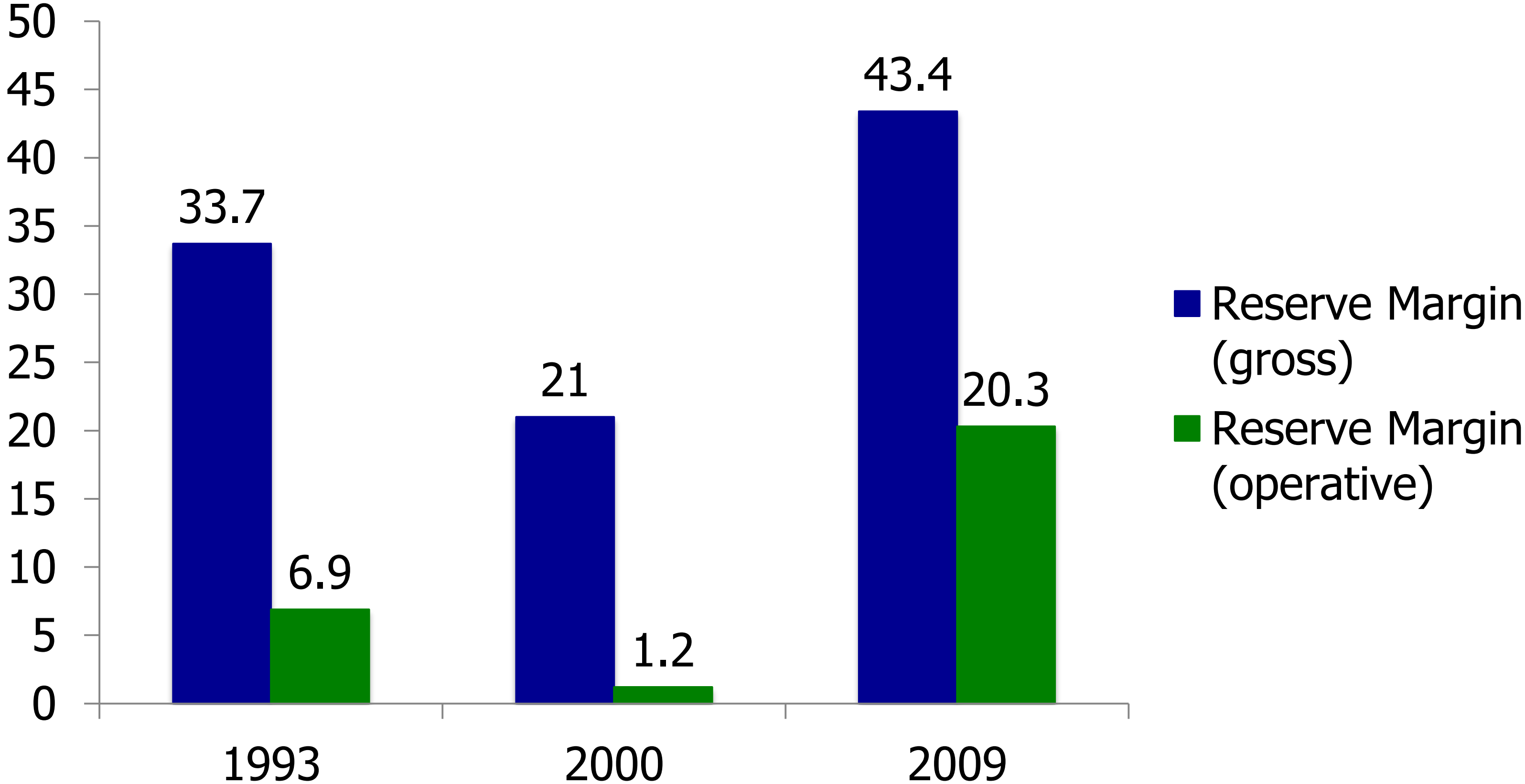
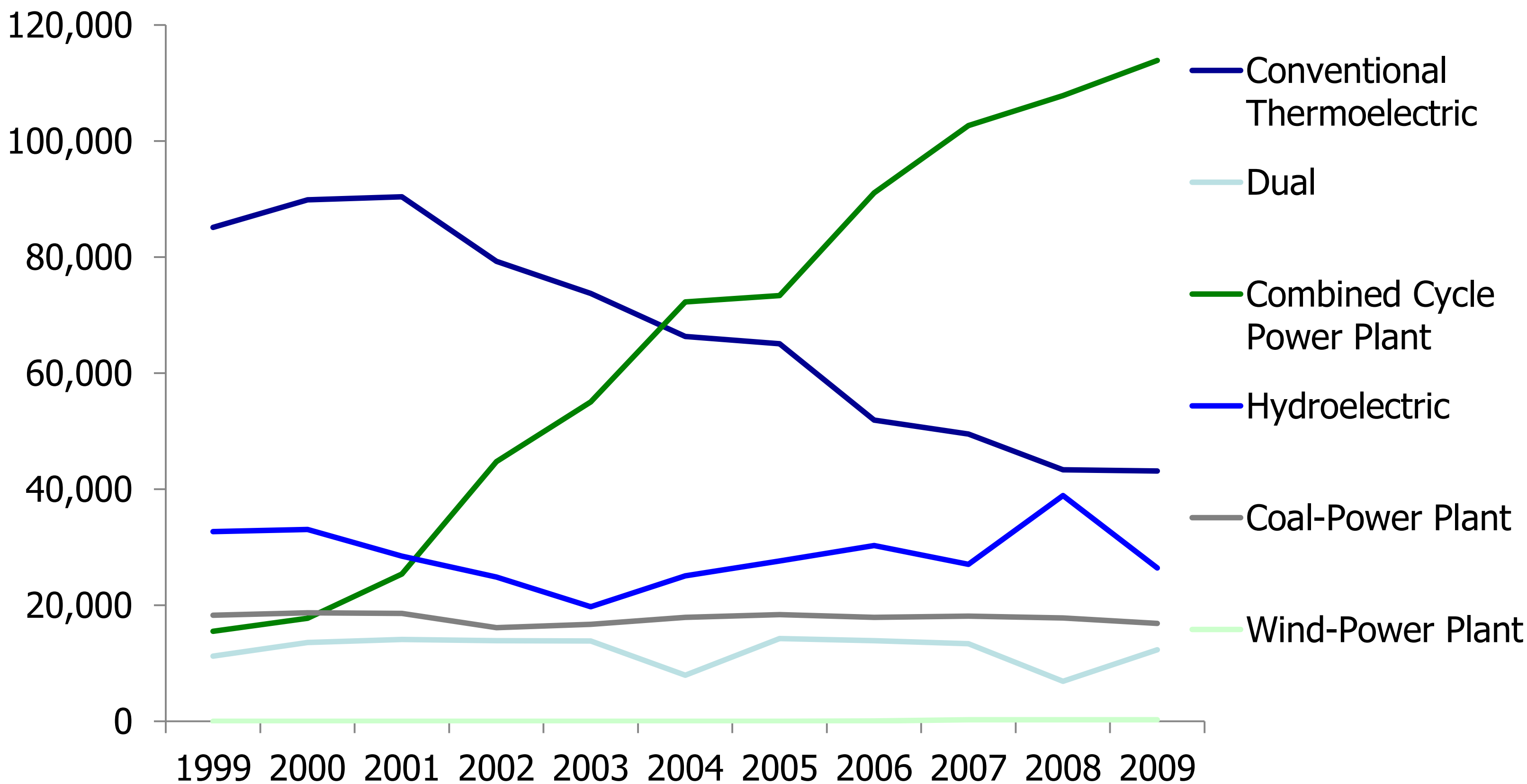
IPP winning bids for CCGT [US¢/kWh]



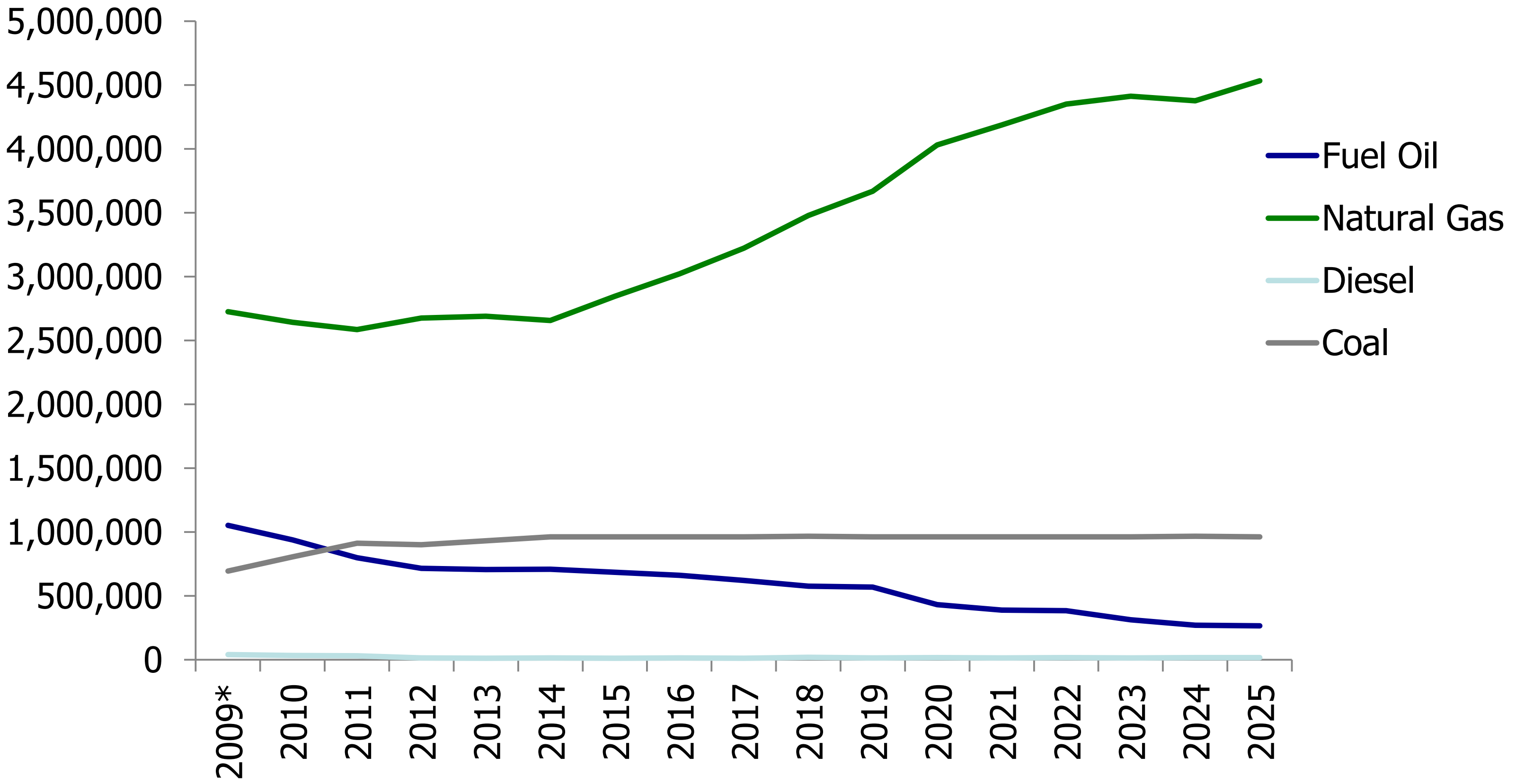
Reserve capacity evolution in the system (%)



Evolution of technology in public generation (CFE + IPPs) [GWh]



Fuel Requirements for Public Generation [MMBTU/day]



Pipelines and gas demand by the power sector, 1995

Network extension:
8704 km

Gas demand:
0.589 bcfd

Pipelines and gas demand by the power sector, 2010

Network extension:
11,542 km

Gas demand:
2.973 bcfd

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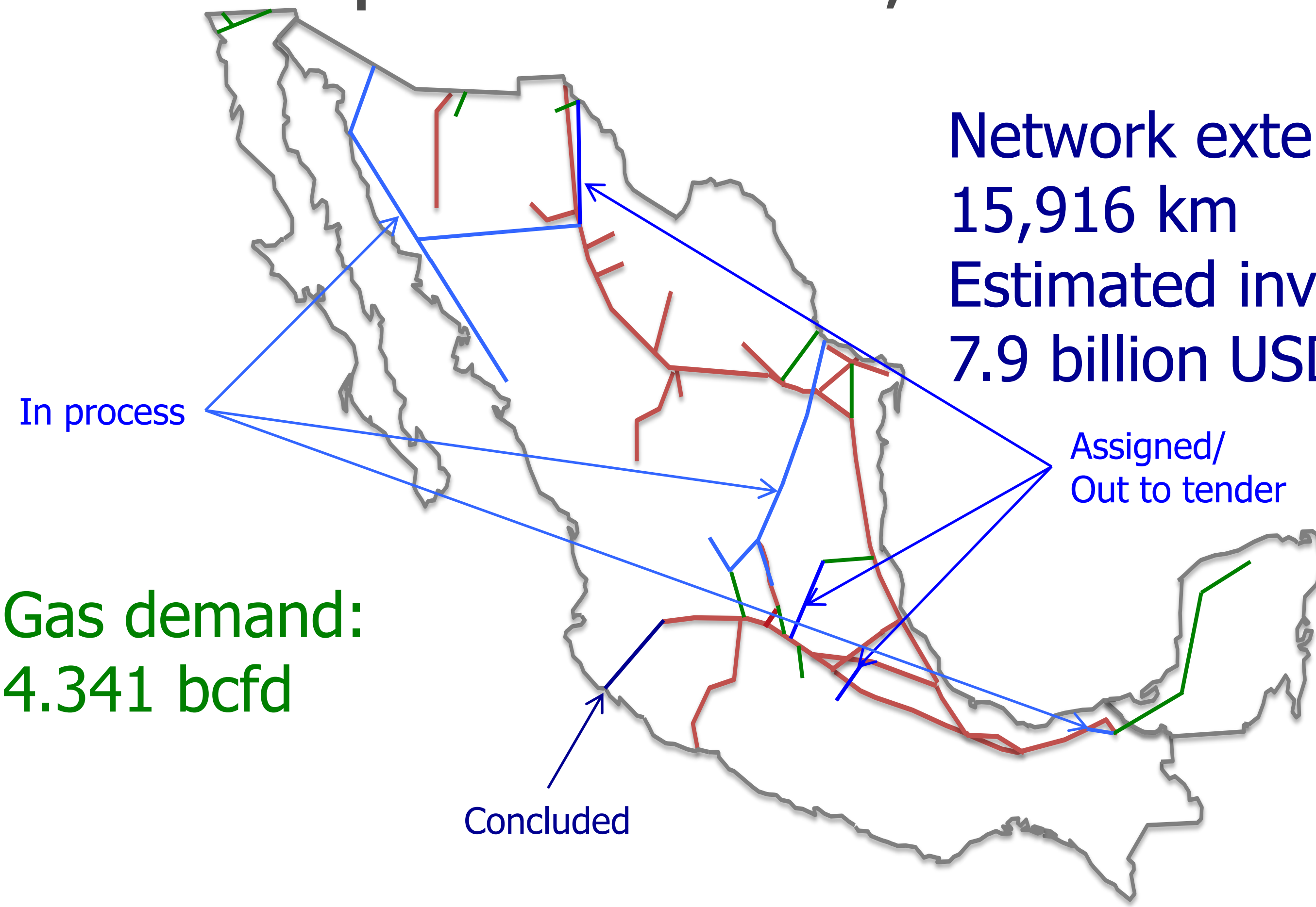
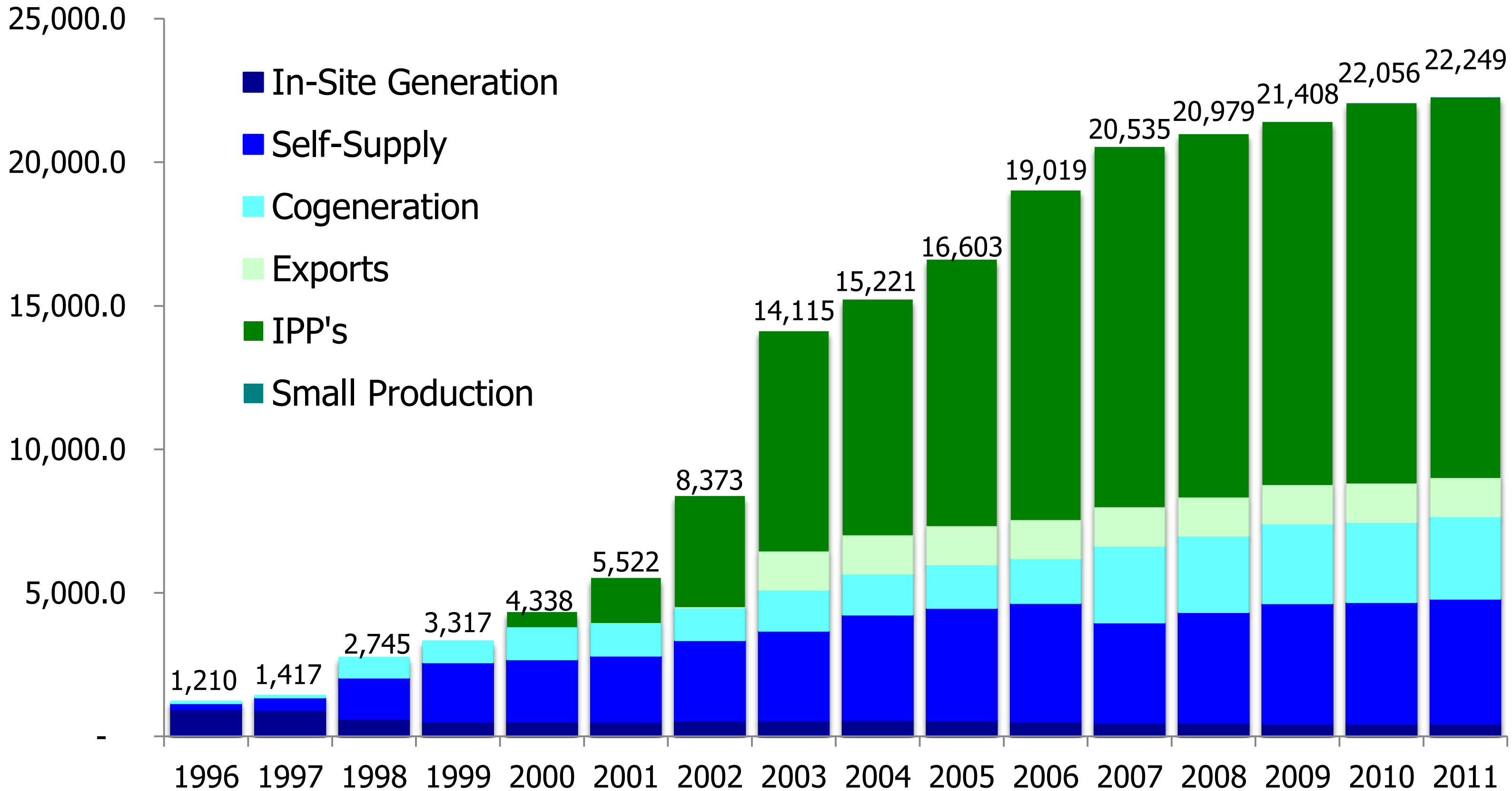
Pipelines and gas demand by the power sector, 2020



Network extension:
15,916 km
Estimated investment:
7.9 billion USD

Gas demand:
4.341 bcfd

Evolution of private investment: installed capacity [MW]



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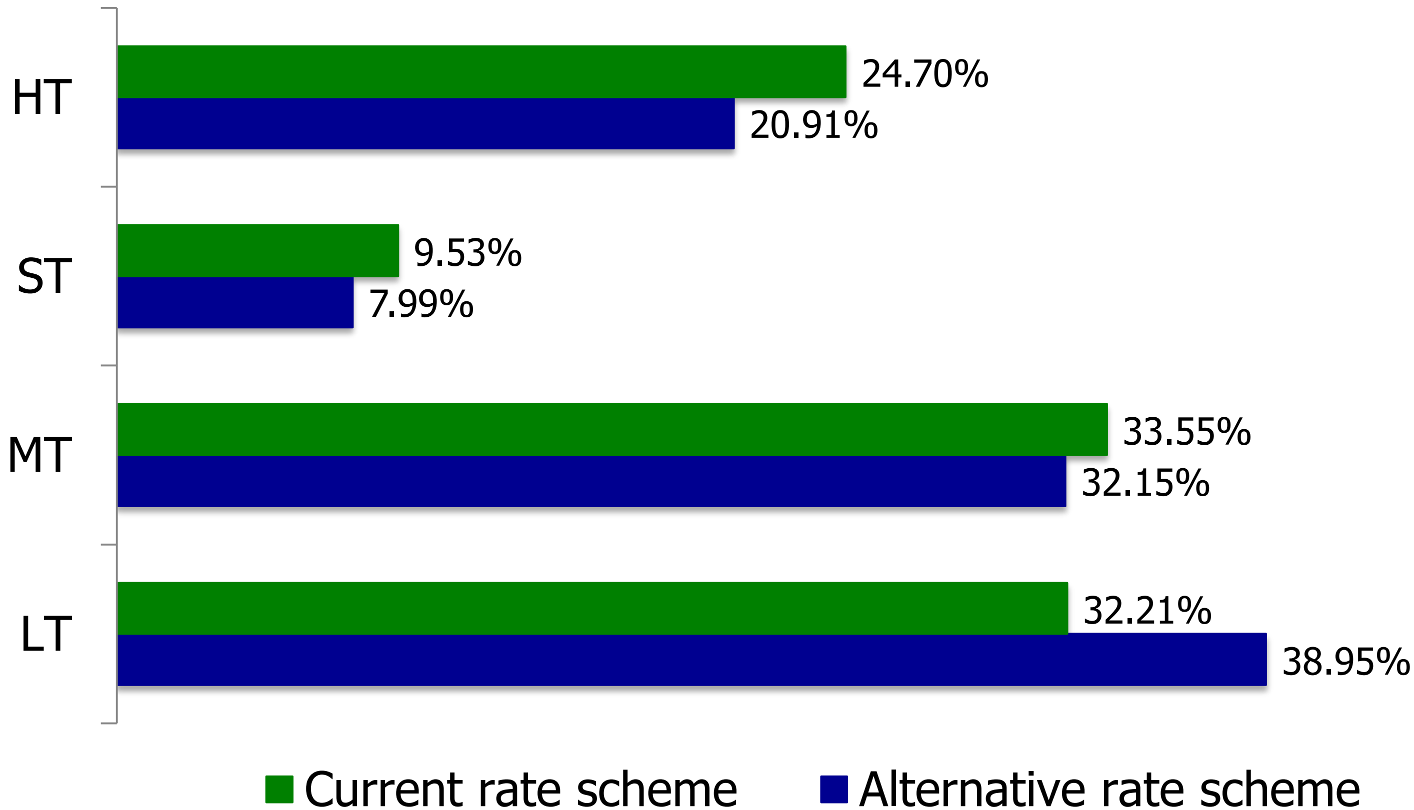
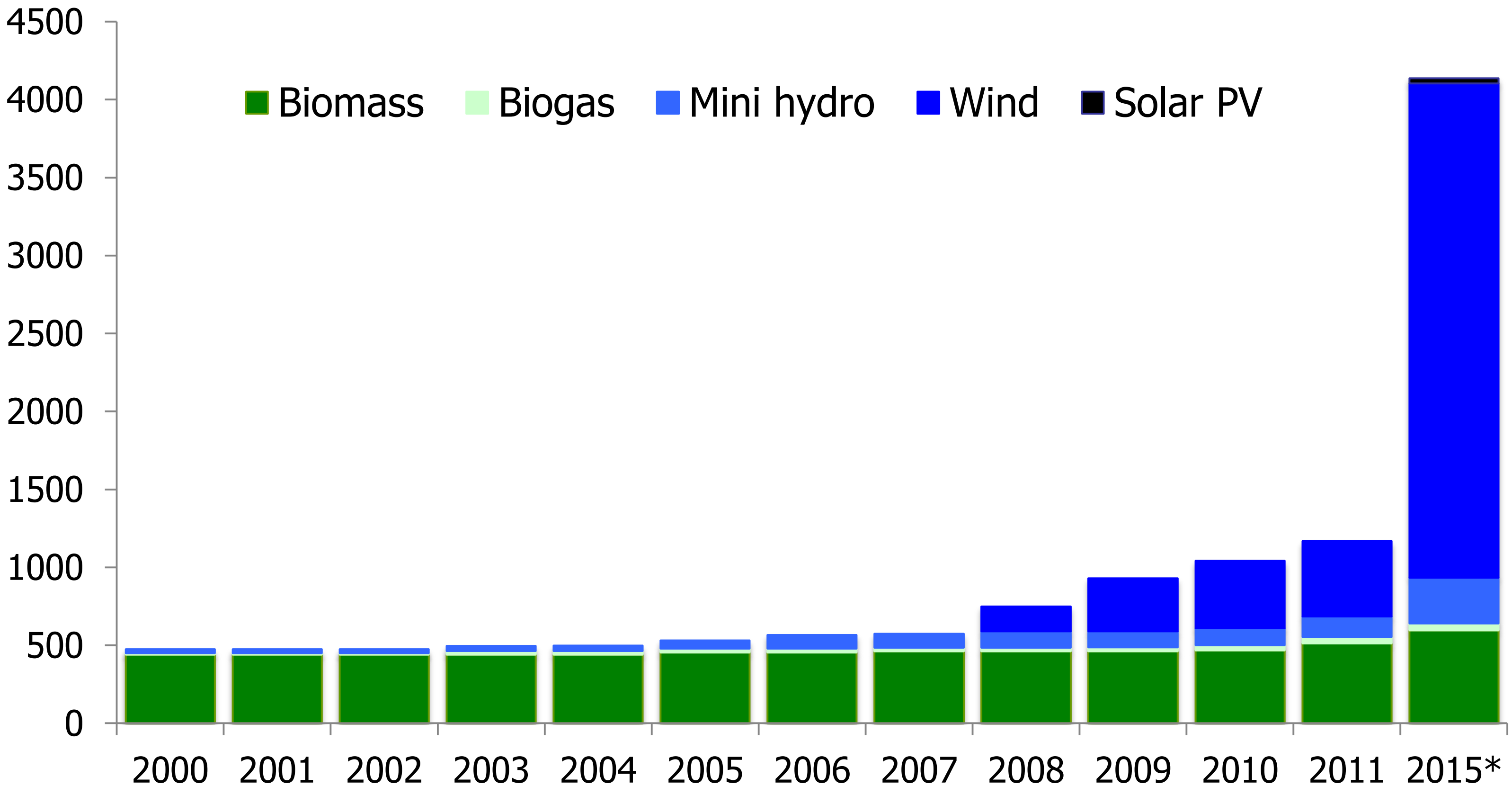
Electricity rates: Required income allocation

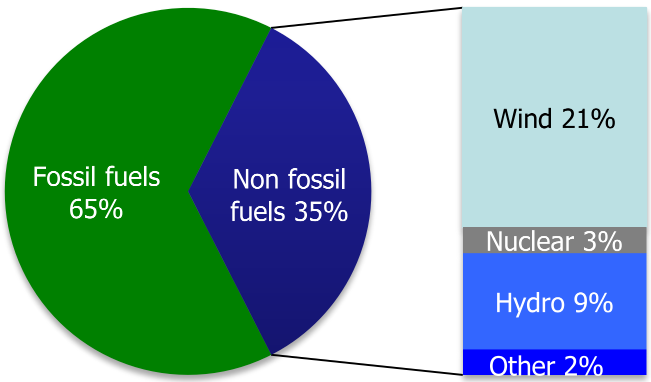


Evolution of capacity with RES in self supply projects [MW]



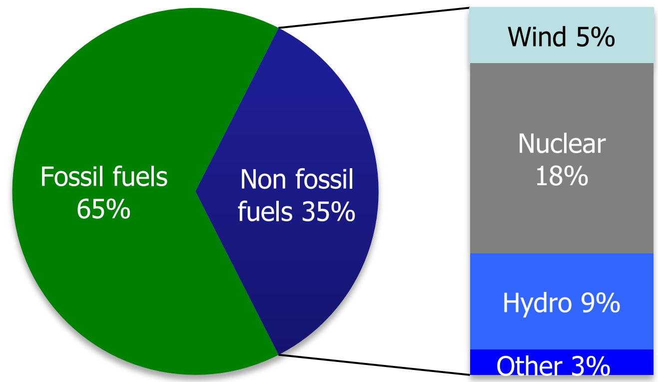
Alternatives to meet clean energy targets by 2026

Renewables based alternative



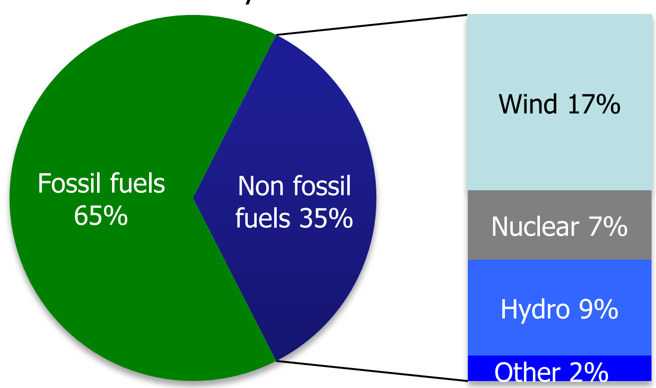
Capacity: 119,072 MW Generation: 479,650 GWh

Nuclear based alternative



Capacity: 93,502 MW Generation: 479,650 GWh

Hybrid alternative



Capacity: 112,296 MW Generation: 479,650 GWh

Thanks!

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