



« SHAPE OF YOU » : THE ELECTRICITY LOAD CURVE

Reshaping the model to integrate the new client's shape

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Generation



Transmission

Peak, voltage, stability

Problem → Solution



Distribution

Cold start, peak, voltage

Problem → Solution



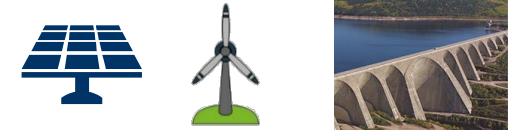
Customer



Regulated

Boundaries well defined
Ability to optimize each level independently
and reach a global optimum in terms of reliability and CAPEX

Generation



Transmission

Peak, voltage, stability
Inertia, slopes, low load

Problem → Solution \$\$\$



Distribution

Cold start, peak, voltage
Exportation, micro-grids

Problem → Solution \$\$\$



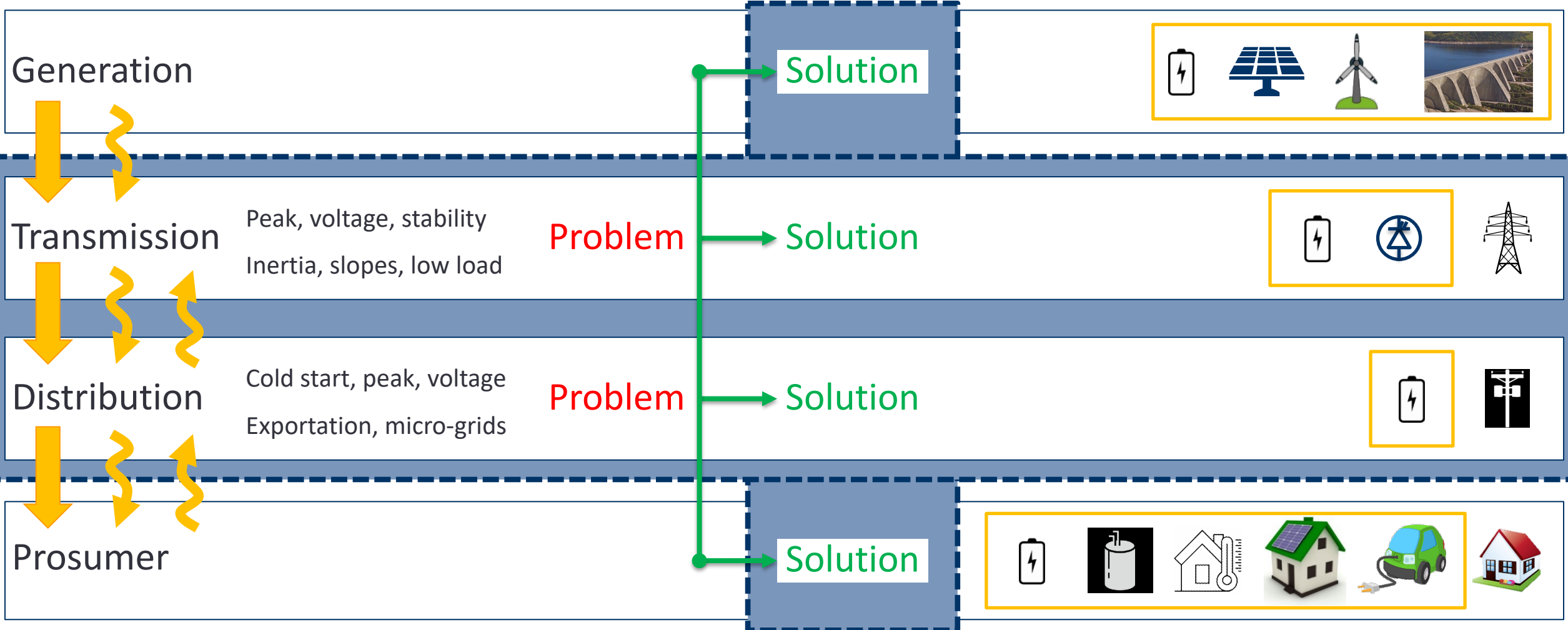
Prosumer

Comfort ↑
Bills ↓



Regulated

Transmission problems caused by DER outside its jurisdiction
Lead to suboptimal solutions
Global electrical system needs to evolve



Regulated

Controlled

Controllability will be the technical key
 A solution to a transmission problem may lie outside its boundaries
 Rethink the model : organization, regulation, market, who's paying?